

BLOCK 826 LOT 7 QUALIFICATION CODE \_\_\_\_\_ ADDRESS (SITE) 1635 Forge Pond Rd PERMIT NO. 13-4609



## CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII C-13-005322

### I. IDENTIFICATION

1. Proposed Work Site at: 1635 Forge Pond Road  
2. Name of Owner in Fee: Charles M. Gilman  
Tel. \_\_\_\_\_ e-mail \_\_\_\_\_  
Address 1635 Forge Pond Road Brick NJ  
street municipality zip code  
3. Ownership in Fee: Public \_\_\_\_\_ Private X  
4. Principal Contractor: NP Gilman Contracting LLC Tel. ( 732 ) 966-2332  
Address 810 MAIN AVE e-mail np@ngilmancontracting.com  
Bay Head, NJ 08242  
License No. OR, if new home, Builder Reg. No. 1300407165000 Exp. Date 12/31/13  
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): \_\_\_\_\_  
Federal Emp. ID No. 46-1347685 FAX: ( ) N/A  
5. Architect or Engineer \_\_\_\_\_ Contact \_\_\_\_\_  
Address \_\_\_\_\_ e-mail \_\_\_\_\_  
Tel. ( ) \_\_\_\_\_ FAX: ( ) \_\_\_\_\_  
6. Responsible Person in Charge once Work has Begun Nick Gilman  
Tel. ( 232 ) 966-2332 FAX: ( ) N/A

### V. FEE SUMMARY (for office use only)

|                                   | Update        | Update |
|-----------------------------------|---------------|--------|
| 1. Building                       | \$ <u>40</u>  |        |
| 2. Electrical                     | \$ <u>50</u>  |        |
| 3. Plumbing                       | \$ <u>45</u>  |        |
| 4. Fire Protection                |               |        |
| 5. Elevator Devices               |               |        |
| 6. Subtotal                       |               |        |
| 7. Less 20% for State Plan Review | \$            |        |
| 8. Subtotal                       | \$            |        |
| 9. State Permit Surcharge Fee     | \$ <u>2</u>   |        |
| 10. Subtotal                      | \$            |        |
| 11. Cert. of Occupancy            |               |        |
| 12. Other                         |               |        |
| 13. TOTAL                         | \$ <u>137</u> |        |

### VI. BUILDING/SITE CHARACTERISTICS

|                                                               | (office use only) |
|---------------------------------------------------------------|-------------------|
| 1. Number of Stories                                          |                   |
| 2. Height of Structure                                        | ft.               |
| 3. Area — Largest Floor                                       | sq. ft.           |
| 4. New Building Area                                          | sq. ft.           |
| 5. Volume of New Structure                                    | cu. ft.           |
| 6. Max. Live Load                                             |                   |
| 7. Max. Occupancy Load                                        |                   |
| 8. If Industrialized Building: State Approved _____ HUD _____ |                   |
| 9. Total Land Area Disturbed                                  | sq. ft.           |
| 10. Flood Hazard Zone                                         |                   |
| 11. Base Flood Elevation                                      | ft.               |
| 12. Wetlands yes _____ no _____                               |                   |

### IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition  
☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction  
☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

### IIb. SUBCODES

(Check all that apply)

- ☒ Building  
☒ Electrical  
☒ Plumbing  
☒ Fire Protection  
☐ Elevator

TOTAL COST \$6700.00

### FOR OFFICE USE ONLY (Optional)

| Est. Cost    | Plans Rec'd by | Date Rec'd   | Rejection Date | Approval Date  | Re-viewer | Resubmission Dates | Re-viewer |
|--------------|----------------|--------------|----------------|----------------|-----------|--------------------|-----------|
| <u>6,000</u> | <u>YK</u>      |              |                |                |           |                    |           |
| <u>400</u>   |                |              |                | <u>10-8-13</u> | <u>JS</u> |                    |           |
| <u>300</u>   |                |              | <u>10-8-13</u> |                |           | <u>10-30-13</u>    |           |
|              |                |              |                | <u>10-7-13</u> | <u>JS</u> |                    |           |
|              | <u>EJ</u>      | <u>10/13</u> |                | <u>10/13</u>   | <u>JS</u> | <u>N/A</u>         |           |

### VII. DESCRIPTION OF BUILDING USE

#### A. RESIDENTIAL (primary use)

1. State Specific Use: \_\_\_\_\_  
2. Use Group, Proposed: \_\_\_\_\_  
3. Change in Use Group, Indicate Present: \_\_\_\_\_  
4. No. of dwelling units: Total Units Income-restricted  
Gained, Sale \_\_\_\_\_  
Gained, Rental \_\_\_\_\_  
Lost, Sale \_\_\_\_\_  
Lost, Rental \_\_\_\_\_

#### B. NON-RESIDENTIAL (primary use)

1. State Specific Use: \_\_\_\_\_  
2. Use Group, Proposed: \_\_\_\_\_  
3. Change in Use Group, Indicate Present: \_\_\_\_\_  
C. MIXED USE -List secondary use(s): \_\_\_\_\_  
D. Construct. Classification: Present \_\_\_\_\_  
Proposed \_\_\_\_\_

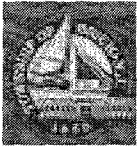
### III. PLAN REVIEW (optional)

- DO YOU WANT:  
1. ☐ Partial Releases  
2. ☐ Prototype Processing

### IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/  
Dumbwaiters/Moving Walks  
2. ☐ High Pressure Boilers  
3. ☐ Pressure Vessels  
4. ☐ Refrigeration Systems  
5. ☐ Cross-Connections/Backflow Preventers  
6. ☐ Hazardous Uses/Places of Assembly  
7. ☐ Sprinklers/Standpipes  
8. ☐ Smoke Control Systems in Open Wells  
9. ☐ Underground Storage Tanks  
10. ☐ Swimming Pools, Spas and Hot Tubs  
11. ☐ LPGas Tanks  
12. ☐ Fire Alarm

FLOOD ZONE  
PBE N/A / current "X"



Brick Township  
401 Chambersbridge Rd  
Brick, NJ 08723

Date Issued 04/08/2014  
Control Number C-13-005322  
Permit Number 13-4609  
Permit Issue Date 11/06/2013  
Certificate Number 13-4609

## Certificate

Construction Code Division

(Certificate of Approval)

### Identification

Work Site Location: 1635 FORGE POND RD Brick Township, NJ Block: 826 Lot: 7 Qual:   
Owner in Fee: GILMAN, CHARLES M JR  
Owner Address: PO BOX 2787 BAY HEAD NJ 08742  
Telephone: [REDACTED]  
Contractor NP Gilman Contracting  
Address 810 Main Ave Bay Head NJ 08742  
Telephone: (732) 966-2332 Fax:   
License Number or Builders Registration Number: 13VH07165000 Federal Emp. Number:

Home Warranty Number:

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification:

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: GAS LINE FOR FURNACE, REPLACEMENT A/C

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

**Conditions to be met:**

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
- ☐ Partial or limited time period (    years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
- ☐ Partial or limited time period (    years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

**Conditions to be met:**

Construction Official

Date Printed: 04/08/2014

U.C.C. F260 (rev. 08/05)

Fee: \$0.00

Check Number:

Collected By:

Page 1



# ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 822 Lot 7 Qualification Code \_\_\_\_\_  
Work Site Location 1635 Forge Road Road

Owner in Fee: Charles M. Gilman

Tel: \_\_\_\_\_  
Address 1635 Forge Road Road

Contractor: John Gronau Electrical Contracting, Inc. Zip code 08240  
Address 111 Lawrence Avenue e-mail john@gronaucontract.com

Contractor License No. 15916 Exp. Date 3/31/15

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): \_\_\_\_\_

Federal Emp. ID No. 205866124 FAX: (732) 293-7731

B. ELECTRICAL CHARACTERISTICS  
Use Group Present \_\_\_\_\_ Proposed \_\_\_\_\_  
☐ Pole/Pad # \_\_\_\_\_ ☐ Temporary ☐ Other \_\_\_\_\_  
Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_  
Est. Cost of Elec. Work \$ 400.00

| JOB SUMMARY (Office Use Only)                                                                                                |  | INSPECTIONS                                 |         |         |          |         |
|------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|---------|---------|----------|---------|
| PLAN REVIEW                                                                                                                  |  | Dates (Month/Day)                           |         |         |          |         |
| <input type="checkbox"/> No Plans Required                                                                                   |  | Type:                                       | Failure | Failure | Approval | Initial |
| <input type="checkbox"/> Partial -Underslab Utilities Approved                                                               |  | Rough                                       |         |         |          |         |
| Date: _____ Approved by: _____                                                                                               |  | Barrier-Free                                |         |         |          |         |
| <input type="checkbox"/> Electric Plans Approved                                                                             |  | Trench                                      |         |         |          |         |
| Date: _____ Approved by: _____                                                                                               |  | Temp. Serv.                                 |         |         |          |         |
| <input type="checkbox"/> Joint Plan Review Required:                                                                         |  | Constr. Serv.                               |         |         |          |         |
| <input type="checkbox"/> Bldg. <input type="checkbox"/> Plumb. <input type="checkbox"/> Fire. <input type="checkbox"/> Elev. |  | TCO                                         |         |         |          |         |
| SUBCODE APPROVAL for PERMIT                                                                                                  |  | Other <u>1-2-14</u>                         |         |         |          |         |
| Date: <u>10-8-13</u>                                                                                                         |  | Service <u>for h.c.</u>                     |         |         |          |         |
| Approved by: <u>D</u>                                                                                                        |  | Final                                       |         |         |          |         |
|                                                                                                                              |  | Barrier-Free                                |         |         |          |         |
| SUBCODE APPROVAL for CERTIFICATE                                                                                             |  | Temp. Cut-in-Card Date Issued               |         |         |          |         |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO <input type="checkbox"/> PCA                                        |  | Final Cut-in-Card Date Issued               |         |         |          |         |
| Date: <u>8-1-14</u>                                                                                                          |  | Annual Pool Inspection                      |         |         |          |         |
| Approved by: _____                                                                                                           |  | Date of Grounding and Bonding Certification |         |         |          |         |

Date Received 11/6/13  
Control # \_\_\_\_\_  
Date Issued \_\_\_\_\_  
Permit # 13-4609

C. CERTIFICATION IN LIEU OF OATH  
I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: \_\_\_\_\_

Print name here: JOHN GRONAU

D. TECHNICAL SITE DATA  
N Licensed Elec. Contractor ☐ Certified Landscape Irrigation Contr. ☐ Exempt/Applicant

| DESCRIPTION OF WORK:                   | QTY. | SIZE | ITEMS |
|----------------------------------------|------|------|-------|
| Electrical connections for new furnace |      |      |       |
| Lighting Fixtures                      |      |      |       |
| -Receptacles                           |      |      |       |
| Switches                               |      |      |       |
| Detectors                              |      |      |       |
| Light Poles                            |      |      |       |
| Motors—Frac. HP                        |      |      |       |
| Emergency & Exit Lights                |      |      |       |
| Communications Points                  |      |      |       |
| Alarm Devices/F.A.C. Panel             |      |      |       |
| TOTAL NUMBERS                          |      |      |       |
| Pool Permit/with UVW Lights            |      |      |       |
| Storage Pool/Spa/Hot Tub               |      |      |       |
| KW Elec. Range/Receptacle              |      |      |       |
| KW Oven/Surface Unit                   |      |      |       |
| KW Elec. Water Heater                  |      |      |       |
| KW Elec. Dryer/Receptacle              |      |      |       |
| KW Dishwasher                          |      |      |       |
| HP Garbage Disposal                    |      |      |       |
| KW Central A/C Unit                    |      |      |       |
| HP/KW Space Heater/Air Handler         |      |      |       |
| KW Baseboard Heat                      |      |      |       |
| HP Motors 1/+ HP                       |      |      |       |
| KW Transformer/Generator               |      |      |       |
| AMP Service                            |      |      |       |
| AMP Subpanels                          |      |      |       |
| AMP Motor Control Center               |      |      |       |
| KW Elec. Sign/Outline Light            |      |      |       |
| FURNACE                                |      |      |       |

|                               |       |
|-------------------------------|-------|
| Administrative Surcharge \$   | _____ |
| Minimum Fee \$                | _____ |
| State Permit Surcharge Fee \$ | _____ |
| TOTAL FEE \$                  | _____ |



# PLUMBING SUBCODE TECHNICAL SECTION



**A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.**

Block 826 Lot 7 Qualification Code \_\_\_\_\_  
Work Site Location 1635 Forge Pond Rd.

Owner in Fee: Charles M. Gilman

Tel. \_\_\_\_\_

Address 1635 Forge Pond Rd.

Contractor: Brian Zupke Plumbing Municipality \_\_\_\_\_ Tel. ( 732 ) 232-7668

Address 442 17th Ave Bldgs 05 e-mail \_\_\_\_\_

Contractor License No. 12376 Exp. Date 6/15

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): \_\_\_\_\_

Federal Emp. ID No. \_\_\_\_\_ FAX: ( \_\_\_\_\_ ) \_\_\_\_\_

## B. PLUMBING CHARACTERISTICS

Use Group \_\_\_\_\_ Present \_\_\_\_\_ Proposed \_\_\_\_\_

Building Sewer Size \_\_\_\_\_ Public Sewer \_\_\_\_\_ Private Septic \_\_\_\_\_

Water Service Size \_\_\_\_\_ Public Water \_\_\_\_\_ Private Well \_\_\_\_\_

Est. Cost of Plumbing Work \$ 500.00

## JOB SUMMARY (Office Use Only)

### PLAN REVIEW

☐ No Plans Required

☐ Partial - Underlab Utilities Approved

Date: \_\_\_\_\_ Approved by: \_\_\_\_\_

☒ Plumbing Plans Approved

Date: 2-7-13 Approved by: [Signature]

Joint Plan Review Required: \_\_\_\_\_

☐ Bldg. ☐ Elec. ☐ Fire. ☐ Elev.

SUBCODE APPROVAL for PERMIT

Date: 10-31-13

Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

☐ CO ☐ CCO ☐ CA

Date: 2-7-14

Approved by: [Signature]

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant sign/Contractor: Brian Zupke

sign and seal here: [Signature]

Print name here: Brian Zupke

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

## D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

gas piping

QTY. \_\_\_\_\_

FIXTURE/EQUIPMENT

Water Closet \_\_\_\_\_

Urinal/Bidet \_\_\_\_\_

Bath Tub \_\_\_\_\_

Lavatory \_\_\_\_\_

Shower \_\_\_\_\_

Floor Drain \_\_\_\_\_

Sink \_\_\_\_\_

Dishwasher \_\_\_\_\_

Drinking Fountain \_\_\_\_\_

Washing Machine \_\_\_\_\_

Hose Bibb \_\_\_\_\_

Water Heater \_\_\_\_\_

Fuel Oil Piping \_\_\_\_\_

Gas Piping \_\_\_\_\_

LP Gas Tank \_\_\_\_\_

Steam Boiler \_\_\_\_\_

Hot Water Boiler \_\_\_\_\_

Sewer Pump \_\_\_\_\_

Interceptor/Separator \_\_\_\_\_

Backflow Preventer \_\_\_\_\_

Greasetrap \_\_\_\_\_

Sewer Connection \_\_\_\_\_

Water Service Connection \_\_\_\_\_

Stacks \_\_\_\_\_

Other A/C

Date Received 11/6/13  
Control # \_\_\_\_\_  
Date Issued \_\_\_\_\_  
Permit # 13-4604

96/88,400  
3.5 TOL'S

Administrative Surcharge \$ \_\_\_\_\_  
Minimum Fee \$ \_\_\_\_\_  
State Permit Surcharge Fee \$ \_\_\_\_\_  
TOTAL FEE \$ \_\_\_\_\_



# FIRE PROTECTION SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 826 Lot 2 Qualification Code \_\_\_\_\_

Work Site Location 1635 Forge Pond Road

Owner in Fee: Charles M. Gilman Jr

Tel: ( ) \_\_\_\_\_ e-mail \_\_\_\_\_

Address 1635 Forge Pond Road Back NJ

Contractor D.K. Klein Mechanical Inc Tel: (732) 687-2002

Address PO Box 662 1700 Nuttall St e-mail DKKleinmech@comcast.net

Brille NJ 08730

Fire Protection Equipment, NJ Div of Fire Safety Permit No. \_\_\_\_\_

Fire Alarm Contractor No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 13VH0191400  
Federal Emp. ID No. 223721118 FAX: (732) 528 1208

## B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present \_\_\_\_\_ Proposed \_\_\_\_\_ Fuel Storage Tank: \_\_\_\_\_  
Constr. Class: Present \_\_\_\_\_ Proposed \_\_\_\_\_ Fuel Type: ☐ Flammable or ☐ Combustible

Heating System: ☒ New or ☐ Modification to Existing Fire Alarm System: ☐ New or ☐ Existing

Fuel Type: ☒ Gas ☐ Oil ☐ Electric ☐ Solar Fire Suppression/Standpipe System: \_\_\_\_\_

Location: Basement Location of Main Control Valve: \_\_\_\_\_

Total Cost of Fire Protection Work \$ 200.00

## JOB SUMMARY (Office Use Only)

| PLAN REVIEW                                                                                                                  | INSPECTIONS         | Dates (Month/Day) | Initial  |
|------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|----------|
| Type:                                                                                                                        | Type:               | Failure           | Approval |
| <input type="checkbox"/> No Plans Required                                                                                   | Alarm System        |                   |          |
| <input type="checkbox"/> Partial Under-slab Utilities Approved                                                               | Suppression Sys.    |                   |          |
| Date: _____ Approved by: _____                                                                                               | Standpipe           |                   |          |
| <input type="checkbox"/> Fire Protection Plans Approved                                                                      | Fire Pump           |                   |          |
| Date: _____ Approved by: _____                                                                                               | Pre-Eng. System     |                   |          |
| Joint Plan Review Required:                                                                                                  | Mechanical          |                   |          |
| <input type="checkbox"/> Bldg. <input type="checkbox"/> Elec. <input type="checkbox"/> Plumb. <input type="checkbox"/> Elev. | Smoke Control       |                   |          |
| SUBCODE APPROVAL for PERMIT                                                                                                  | TCO                 |                   |          |
| Date: _____                                                                                                                  | Flam/Combust. Tanks |                   |          |
| SUBCODE APPROVAL for CERTIFICATE                                                                                             | Fireplace Venting   |                   |          |
| <input type="checkbox"/> CO <input type="checkbox"/> LCO <input type="checkbox"/> CA                                         | Final               |                   |          |
| Date: <u>2-20-14</u>                                                                                                         | Other               |                   |          |
| Approved by: _____                                                                                                           |                     |                   |          |

U.C.C. F-140 (rev. 02/11) 1. While a Inspector Copy 2. Canary = Office Copy 3. Pink = Office Copy 4. Gold = Applicant Copy

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent or) owner of record and am authorized to make this application.

Applicant/Contractor sign here: \_\_\_\_\_

Print name here: Daniel Klein Jr

D. TECHNICAL SITE DATA ☐ Certified Contractor ☐ Exempt Applicant

| DESCRIPTION OF WORK:                                                                                                            | NUMBER | FEE (Office Use Only) |
|---------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------|
| Water Supply Source _____                                                                                                       |        |                       |
| Method of Alarm/Suppression System Supervision _____                                                                            |        |                       |
| Flammable/Combustible Tanks _____                                                                                               |        |                       |
| Alarm Systems _____                                                                                                             |        |                       |
| <input type="checkbox"/> System _____                                                                                           |        |                       |
| <input type="checkbox"/> 110V Interconnected _____                                                                              |        |                       |
| <input type="checkbox"/> CO Detectors/110V _____                                                                                |        |                       |
| Alarm Devices (i.e., smoke, heat, pulls, waterflow) _____                                                                       |        |                       |
| Supervisory Devices (i.e., lamps, low/high air) _____                                                                           |        |                       |
| Signaling Devices (i.e., horns/strobes, bells) _____                                                                            |        |                       |
| Other Devices _____                                                                                                             |        |                       |
| TOTAL _____                                                                                                                     |        |                       |
| Suppression Systems _____                                                                                                       |        |                       |
| Fire Pump _____ GPM Type _____                                                                                                  |        |                       |
| Dry Pipe/Alarm Valves _____                                                                                                     |        |                       |
| Pre-action Valves _____                                                                                                         |        |                       |
| Sprinkler Heads (Dry and Wet) _____                                                                                             |        |                       |
| Standpipes _____                                                                                                                |        |                       |
| Pre-engineered Systems _____                                                                                                    |        |                       |
| Wet Chemical _____                                                                                                              |        |                       |
| Dry Chemical _____                                                                                                              |        |                       |
| CO <sub>2</sub> Suppression _____                                                                                               |        |                       |
| Foam Suppression _____                                                                                                          |        |                       |
| FM200 Suppression _____                                                                                                         |        |                       |
| Other _____                                                                                                                     |        |                       |
| Other Systems _____                                                                                                             |        |                       |
| Kitchen Hood Exhaust System _____                                                                                               |        |                       |
| Smoke Control System _____                                                                                                      |        |                       |
| Fuel-Fired Appliances <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Solid _____ |        |                       |
| Fireplace Venting/Metal Chimney _____                                                                                           |        |                       |
| Other _____                                                                                                                     |        |                       |

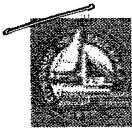
|                                     |
|-------------------------------------|
| Administrative Surcharge \$ _____   |
| Minimum Fee \$ _____                |
| State Permit Surcharge Fee \$ _____ |
| TOTAL FEE \$ _____                  |

Date Received 11/6/13

Control # \_\_\_\_\_

Date Issued 13-4609

Permit # \_\_\_\_\_



Brick Township  
401 Chambers Bridge Rd.

Brick, NJ 08723  
(732) 262-1027

Date Issued:

11/6/13

Application Number:

ZA-13-01220

Application Date:

09/23/2013

Project Number:

Permit Number:

ZP-13-01196

Fee:

\$50

## Zoning Permit

Worksite **1635 FORGE POND RD**  
Location: **Brick Township, NJ**

Block: **826**

Lot: **7**

Qualifier:

Zone: **R-10**

Owner: **GILMAN, CHARLES M JR**  
Address: **PO BOX 2787**  
**BAY HEAD, NJ 08742**

Applicant: **Nick Gilman**  
Address: **810 Main Avenue**  
**Bay Head, NJ 08742**

Application Approved Date: 09/23/2013

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Use is: Single-Family Residential

Nonconforming Use is: \_\_\_\_\_

Work Description:

**Air-Conditioner Condenser Unit - 3' x 3', 36" high, on platform.**

**Must be set back at least 30 feet from the front property line, at least 6 feet from the side property line and 20 feet from the rear property line.**

Upon review it was determined that the Development Application:

- ☒ Permitted by Ordinance
- ☐ Permitted by Variance approved on: \_\_\_\_\_
- ☐ Valid Nonconforming Use is established by
  - ☐ Zoning Board of Adjustment
  - ☐ Zoning Officer

11/06/13 11:00PM 001755847977  
EX07 SERV 007

|          |         |
|----------|---------|
| #1196    |         |
| ZPA      | \$50.00 |
| XX/TOTAL | \$50.00 |
| CASH     | \$50.00 |
| CHARGE   | \$0.00  |

Office of Zoning,

Michael P. Fowler, Township Planner

09/23/2013

Date

9/23/13  
Date



# CONSTRUCTION PERMIT

Date Issued 11/6/13  
Control # C-13-005322  
Permit # 13-4609

IDENTIFICATION Block: 826 Lot: 7 Qualifier \_\_\_\_\_  
Work Site Location: 1635 FORGE POND RD Brick Township, NJ Contractor: NP Gilman Contracting  
Address: 810 Main Ave Bay Head NJ 08742  
Owner in Fee: GILMAN, CHARLES M JR  
PO BOX 2787 BAY HEAD NJ 08742 Telephone: (732) 966-2332  
Telephone: \_\_\_\_\_ Lic. No. or Bldrs. Reg. No. 13VH07165000  
Federal Employee. No. \_\_\_\_\_

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☒ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

## DESCRIPTION OF WORK:

GAS LINE FOR FURNACE, REPLACEMENT A/C

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.  
Estimated Cost of Work \$1,100

Daniel Newman Jr  
Construction Official

10/31/13  
Date

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                       |        |
|-----------------------|--------|
| Building              | \$0    |
| Electrical            | \$40   |
| Plumbing              | \$50   |
| Fire Protection       | \$45   |
| Elevator Devices      | \$0    |
| Other                 | \$0.00 |
| DCA Training Fee      | \$2    |
| CO Fee                | \$0    |
| Other                 | \$0    |
| Total                 | \$137  |
| Check No. <u>1280</u> |        |
| Cash                  | \$0    |
| Credit                | \$0    |
| Collected By          |        |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

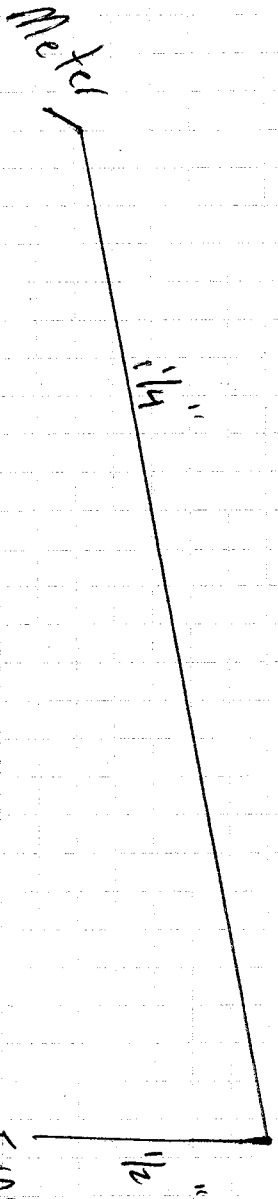
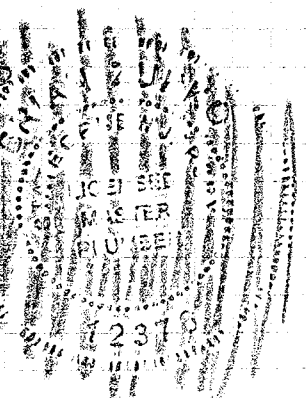
**TOWNSHIP OF BRICK**  
**RELEASE FOR PERMIT**

INITIAL

DATE

Building Subcode \_\_\_\_\_  
Plumbing Subcode \_\_\_\_\_  
Fire Subcode \_\_\_\_\_  
Electrical Subcode \_\_\_\_\_  
Plan Reviewer \_\_\_\_\_  
Plans Released 10-8-13  
Construction Official \_\_\_\_\_

Brian Zupke



Furnace

92.000 BTU

Gas line Diagram

RECEIVING CLERK MP  
DATE REC'D 9/13/13

# ZONING PERMIT APPLICATION

PERMIT # 1116/13  
DATE ISSUED 2-13-2012

BLOCK: 826 LOT: 2 QUALIFIER: 1 SITE ADDRESS: 1635 Forge Pond Rd

## IDENTIFICATION:

1. NAME OF OWNER IN FEE: Charles M. Gilman

COMPLETE ADDRESS: 1635 Forge Pond Rd

Bick Township MS

PHONE # [REDACTED] EMAIL: [REDACTED]

2. NAME OF APPLICANT: Nick Gilman

APPLICANT ADDRESS: 810 Main Ave

Bay Head MS 08742

PHONE # 732-966-2332 EMAIL: NPgilman@comcast.net

3. RESPONSIBLE PERSON FOR WORK: Nick Gilman

PHONE # 732-966-2332 FAX # [REDACTED]

4. SIGNATURE OF APPLICANT: Nick Gilman

## PROJECT DESCRIPTION: (PLEASE CHECK APPLICABLE WORK & DESCRIBE)

\*NEW BUILDING: [REDACTED] \*ADDITION X \*ALTERATION [REDACTED] \*PORCH [REDACTED] \*DECK [REDACTED]

POOL: ABOVE GROUND [REDACTED] IN GROUND [REDACTED] FENCE: HEIGHT [REDACTED] TYPE [REDACTED] MATERIAL [REDACTED]

HEIGHT: 36" (\*IF APPLICABLE)

OTHER New AC Unit 3'x3'

## DESCRIPTION:

ZONING REVIEW: 9/23/13

DATE REVIEWED: 9/23/13 DATE DENIED: [REDACTED] DATE APPROVED: 9/23/13

INTLS: NG

(SEE BACK PAGE)

## FOR OFFICE USE ONLY

### FEE SUMMARY:

APPLICATION FEE: \$ 50-

OTHER: \$ [REDACTED]

TOTAL: \$ [REDACTED]

## REQUIRED BY APPLICANT

RESIDENTIAL: X

COMMERCIAL: [REDACTED]

EXISTING USE: SFR

PROPOSED USE: SFR

BOARD APPROVAL: [REDACTED] PB [REDACTED] ZB [REDACTED]

RESOLUTION #: [REDACTED]

APPROVAL DATE: [REDACTED]





Brick Township  
401 Chambers Bridge Rd.

Brick, NJ 08723  
(732) 262-1027

Date Issued:

Application Number: ZA-13-01220

Application Date: 09/23/2013

Project Number: \_\_\_\_\_

Permit Number: \_\_\_\_\_

Fee: \$50

## Zoning Permit

Worksite: **1635 FORGE POND RD**  
Location: **Brick Township, NJ**

Block: **826**

Lot: **7**

Qualifier: \_\_\_\_\_

Zone: **R-10**

Owner: **GILMAN, CHARLES M JR**  
Address: **PO BOX 2787**  
**BAY HEAD, NJ 08742**

Applicant: **Nick Gilman**  
Address: **810 Main Avenue**  
**Bay Head, NJ 08742**

Application Approved Date: 09/23/2013

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Use is: Single-Family Residential

Nonconforming Use is: \_\_\_\_\_

Work Description:

**Air-Conditioner Condenser Unit - 3' x 3', 36" high, on platform.**

**Must be set back at least 30 feet from the front property line, at least 6 feet from the side property line and 20 feet from the rear property line.**

Upon review it was determined that the Development Application:

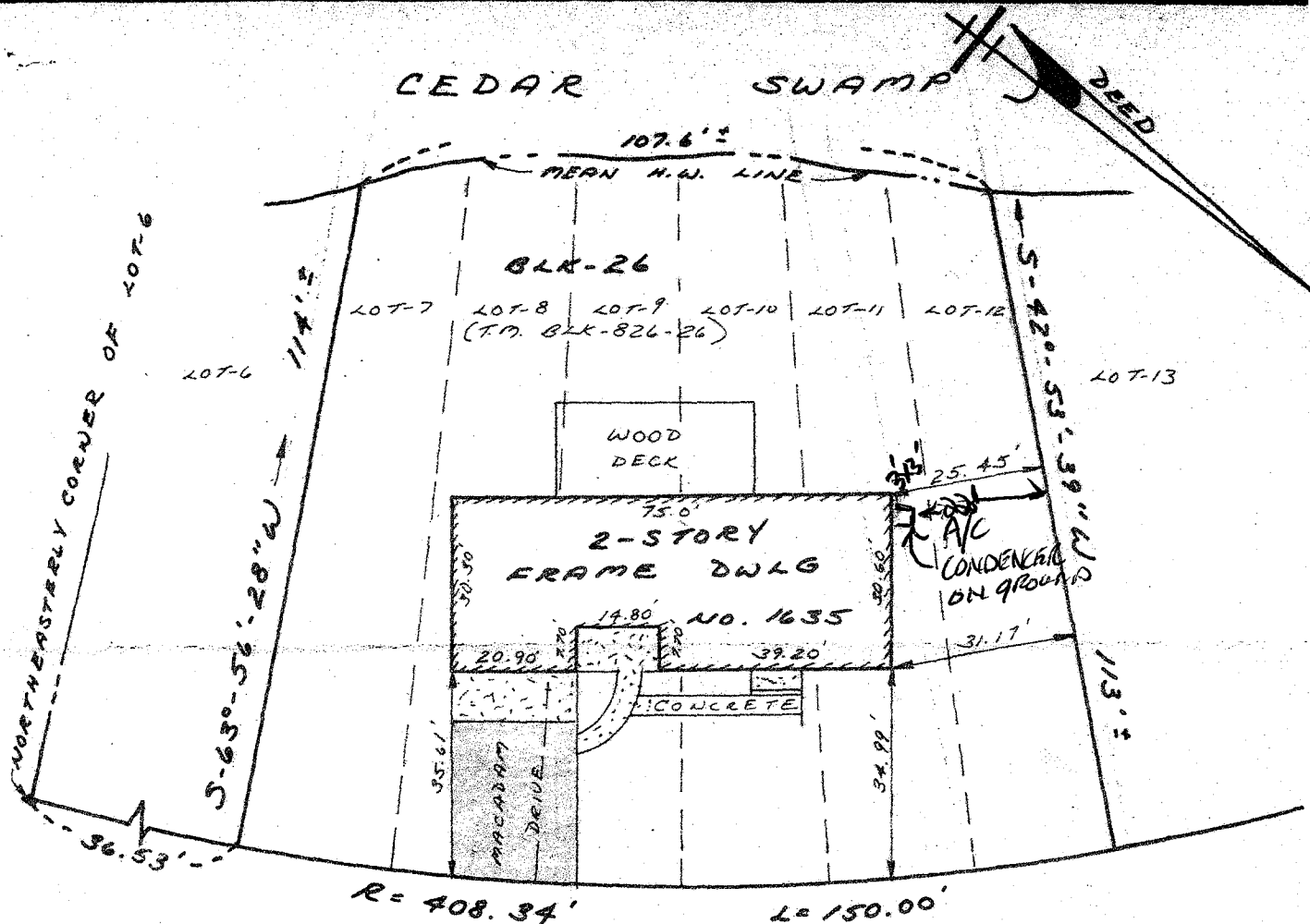
- ☒ Permitted by Ordinance
- ☐ Permitted by Variance approved on: \_\_\_\_\_
- ☐ Valid Nonconforming Use is established by
  - ☐ Zoning Board of Adjustment
  - ☐ Zoning Officer

Sen Kinney, 26  
Office of Zoning,  
Michael F. Fowler  
Michael F. Fowler, Township Planner

09/23/2013

Date

9/23/13  
Date



## FORGE POND ROAD

Property known as Lots-7,8,9,10,11 & 12, Blk.-826.26 as shown on Sheet No. 45B of the Brick Township Tax Map. a/k/a Lots-7 through 12, Blk.-26 as shown on a map entitled "Amended Map of Laurelton Park Waterfront Section" and filed in the Ocean County Clerk's office on May 13, 1947 as Case No. F-179.

This survey is certified to:  
Charles M. Gilman, JR.;  
Mid-State Abstract Co. / First  
American Title;  
Wilbert, Clyne & Montenegro, Esqs.

APPROVED FOR ZONING ONLY\*  
SEAN KINNEVY, ZONING OFFICER

SEP 23 2013

5628

Robert S. YURO L.S. #19463

SURVEY OF PROPERTY

prepared for

**CHARLES M. GILMAN, JR.**

situated in

BRICK TOWNSHIP, OCEAN COUNTY, N.J.

prepared by

**ROBERT S. YURO ASSOCIATES INC.**

Professional Land Surveyors

382 Hulse's Corner Rd., Howell Twp., N.J.

367-0447

dated: Aug. 27, 1984

scale: 1"=30'  
File No. Y-5899

## EMS Heat Loss/Heat Gain Calculation

|                  |                       |
|------------------|-----------------------|
| <b>Company:</b>  | D.K. Klein Mechanical |
| <b>Preparer:</b> | Donny                 |
| <b>Phone:</b>    | 732.687.2002          |

|                  |                                   |
|------------------|-----------------------------------|
| <b>Customer:</b> | Nick Gilman                       |
| <b>Address:</b>  | 1635 Forge Pond Rd. Bricktown, NJ |
| <b>Phone:</b>    | 732.966.2332                      |
| <b>Date:</b>     | 10/15/2013                        |

This HVAC load calculation has been performed using sound engineering principles as prescribed by Manual J seventh and eighth abridged editions and ASHRAE Fundamentals. Duct sizing has been performed as prescribed by Manual D.

### 1. Design Conditions

|        | Indoor | Outdoor | Temp. Diff |
|--------|--------|---------|------------|
| Winter | 70     | 20      | 50         |
| Summer | 74     | 90      | 16         |

|                                 |
|---------------------------------|
| <b>Front of home is facing:</b> |
| North East                      |

2. How would you describe the summer humidity in your area? Moderately Humid 40

3. How tight is the house? Average-over 1500 Sq. Ft.  
 Winter air change / hr: 0.7 Summer air change / hr: 0.35

4. Fireplace evaluation : Number: None Tightness: -- Select -- 0

5. Number of occupants: 4

### 6. Overhang characteristics (optional)

|                                               | East | West | S/SE/SW |
|-----------------------------------------------|------|------|---------|
| Distance of overhang from top of window (ft.) | 0    | 0    | 0       |
| Length of overhang                            | 0    | 0    | 0       |

## 7. Solar gain through glass

| Facing                                          | Total area - Sq.Ft. | Type of glass | HTM | Linear ft. | Unshaded | Shaded | HTH   |
|-------------------------------------------------|---------------------|---------------|-----|------------|----------|--------|-------|
| N/Shaded                                        | 16                  | -- Select --  |     | Below OH   |          | 16     |       |
| NE/NW                                           | 54                  | Single        | 65  |            | 54       |        | 3510  |
| South                                           |                     | Single        | 50  |            | 0        | 0      | 0     |
| SE/SW                                           | 88                  | Single        | 80  |            | 88       | 0      | 7040  |
| East                                            |                     | Single        | 90  |            | 0        | 0      | 0     |
| West                                            |                     | Single        | 90  |            | 0        | 0      | 0     |
| Sky light                                       |                     | -- Select --  |     |            |          |        | 0     |
| Total North and Shaded                          |                     |               |     |            |          | 16     | 0     |
| Total Solar Gain                                |                     |               |     |            |          |        | 10550 |
| Adjust for tinted or reflective window coating? |                     |               |     | No         | 1        |        | 10550 |

## 8. Ducts/Pipes

| Location:    | Duct system under an open floor |            |          |     |      |
|--------------|---------------------------------|------------|----------|-----|------|
| Air Temp.    | Insulation                      |            | Leakage  |     | Area |
| -- Select -- | R-2                             | 1.85       | unsealed | 1.9 |      |
| Duct gain:   | 0.246                           | Duct loss: | 0.685    |     |      |

## 9. Load Calculation

| Elements of Load                          | Insulation / R-value | Area/sq.ft.    | U-value          | Heat Loss | Heat Gain |
|-------------------------------------------|----------------------|----------------|------------------|-----------|-----------|
| Gross Wall                                |                      | 1808           | Glass solar gain |           | 10550     |
| Glass 1                                   | Single               | 158            | 0.98             | 7742      |           |
| Glass 2                                   | Single               |                | 0.98             | 0         |           |
| Skylight                                  | -- Select --         | 0              |                  | 0         |           |
| Doors                                     | Single wood          | 364            | 0.56             | 10192     | 3261      |
| Net walls                                 | R-5                  | 1286           | 0.15             | 9645      | 3086      |
| Ceilings                                  | R-5                  | 1257           | 0.15             | 9428      | 8485      |
| Floors                                    | No Insulation        |                | 0.31             | 0         | 0         |
| Open floors                               | No Insulation        | 866            | 0.31             | 13423     | 4295      |
| Slab floors                               | No Insulation        |                | 0.8              | 0         | 0         |
| Volume of your building or zone (cu. Ft.) |                      | 40,824         |                  | 0         | 0         |
|                                           |                      | People         |                  |           | 1200      |
|                                           |                      | Appliances     |                  |           | 1200      |
|                                           |                      | Sub Total      |                  | 50430     | 32078     |
|                                           |                      | Duct Loss/Gain |                  | 34566     | 7893      |
|                                           |                      | Sensible Load  |                  | 84995     | 39971     |
|                                           |                      | Latent Load    |                  |           | 920       |
|                                           |                      | TOTAL BTUH     |                  | 84995     | 40891     |

| Summary            |       |      |
|--------------------|-------|------|
|                    | BTUH  | Tons |
| Total heating load | 84995 |      |
| Total cooling load | 40891 | 3.4  |

# Basement Calculation

| Elements of Load                           | Insulation / R-value | Area/sq.ft. | U-value | Heat Loss | Heat Gain |
|--------------------------------------------|----------------------|-------------|---------|-----------|-----------|
| Walls - above grade                        |                      | 0           |         |           |           |
| Glass                                      | Single               | 0           | 0.98    | 0         |           |
| North                                      | -- Select --         |             |         |           | 0         |
| South                                      | -- Select --         |             |         |           | 0         |
| East                                       | -- Select --         |             |         |           | 0         |
| West                                       | -- Select --         |             |         |           | 0         |
| Doors                                      | -- Select --         |             |         | 0         | 0         |
| Net walls (above)                          | No Insulation        | 0           | 0.27    | 0         | 0         |
| Walls (below grade)                        | No Insulation        |             | 0.125   | 0         | 0         |
| Ceilings                                   | No Insulation        |             | 0.6     | 0         | 0         |
| Floors                                     |                      |             | 0.024   | 0         | 0         |
| Infiltration (Cu.Ft.)                      |                      |             |         | 0         | 0         |
| Number of people                           |                      | 300         |         |           | 0         |
| Appliances - Enter total BTUH >            |                      |             |         |           | 0         |
|                                            | Sensible Load        |             |         | 0         | 0         |
|                                            | Latent Load          |             |         | 0         |           |
|                                            | TOTAL BTUH           |             |         | 0         | 0         |
| Total whole house load including basement: |                      |             |         | 84995     | 40891     |

## Energy Cost Analysis

|                     |       |                           |      |
|---------------------|-------|---------------------------|------|
| Heat Loss           | 84995 | Heating degree days       | 5300 |
| Heat Gain           | 40891 | Cooling degree days       | 800  |
| Summer Design Temp. | 90    | Summer Design Temp. Diff. | 16   |
| Winter Design Temp. | 20    | Winter Design Temp. Diff. | 50   |

### System #1 (less efficient)

|                                           | Method      | Efficiency | Fuel Cost | Price |
|-------------------------------------------|-------------|------------|-----------|-------|
| Air Conditioning                          |             | 14         | .16       | \$359 |
| Heating                                   | Natural gas | 95         | 1.07      | \$24  |
| Total annual operating cost of system #1: |             |            |           | \$383 |

### System #2 (more efficient)

|                                           | Method      | Efficiency | Fuel Cost | Price |
|-------------------------------------------|-------------|------------|-----------|-------|
| Air Conditioning                          |             |            |           | \$0   |
| Heating                                   | Natural gas |            |           | \$0   |
| Total annual operating cost of system #2: |             |            |           | \$0   |

### Payback and ROI

|                                      |          |
|--------------------------------------|----------|
| Cost of new or more efficient system |          |
| Cost of less efficient system        |          |
| Rebates or credits                   |          |
| Net or additional investment         | \$0      |
| Yearly savings                       | \$383.26 |
| Payback (years)                      | 0        |
| Return on investment (ROI)           | Infinite |

# Room by Room

|                 |       |                      |      |
|-----------------|-------|----------------------|------|
| Total Heat Loss | 84995 | System CFM (cooling) | 2000 |
| Total Heat Gain | 39971 | System CFM (heating) | 1600 |

| Room name          | Kitchen | 1/2 bath | office | livingroom | hall | den   | bedroom 1 | bedroom 2 | master | master bath |
|--------------------|---------|----------|--------|------------|------|-------|-----------|-----------|--------|-------------|
| Gross wall         | 144     | 72       | 96     | 284        | 188  | 240   | 152       | 152       | 408    | 72          |
| North windows      |         |          |        |            |      |       |           |           | 16     |             |
| NE/NW windows      |         |          |        | 27         |      | 27    |           |           |        |             |
| South windows      |         |          |        |            |      |       |           |           |        |             |
| SE/SW windows      | 21      | 8        | 27     |            |      |       | 16        |           | 8      | 8           |
| East windows       |         |          |        |            |      |       |           |           |        |             |
| West windows       |         |          |        |            |      |       |           |           |        |             |
| Skylight           |         |          |        |            |      |       |           |           |        |             |
| Doors              |         |          |        |            |      | 364   |           |           |        |             |
| Net walls          | 123     | 64       | 69     | 257        | 188  | -151  | 136       | 152       | 384    | 64          |
| Ceiling            |         |          |        |            |      | 375   | 180       | 180       | 450    | 72          |
| Floor-crawl        |         |          |        |            |      |       |           |           |        |             |
| Floor-open         | 270     | 72       | 144    | 192        | 188  |       |           |           |        |             |
| Floor-slab         |         |          |        |            |      |       |           |           |        |             |
| Infiltration       | 21      | 8        | 27     | 27         | 0    | 391   | 16        | 0         | 24     | 8           |
| People             |         |          |        |            |      |       | 1         | 1         | 2      |             |
| Appliances         | 1200    |          |        |            |      |       |           |           |        |             |
| Heat loss          | 10343   | 3351     | 6864   | 10494      | 7288 | 22239 | 5316      | 4197      | 12524  | 2380        |
| Sensible Heat Gain | 5625    | 1434     | 3788   | 4142       | 1724 | 8953  | 3889      | 2342      | 6478   | 1594        |
| Cooling CFM        | 281     | 72       | 190    | 207        | 86   | 448   | 195       | 117       | 324    | 80          |
| Heating CFM        | 195     | 63       | 129    | 198        | 137  | 419   | 100       | 79        | 236    | 45          |

|               |
|---------------|
| Room name     |
| Gross wall    |
| North windows |
| NE/NW windows |
| South windows |
| SE/SW windows |
| East windows  |
| West windows  |
| Skylight      |
| Doors         |
| Net walls     |
| Ceiling       |
| Floor-crawl   |

|                    |
|--------------------|
| Floor-open         |
| Floor-slab         |
| Infiltration       |
| People             |
| Appliances         |
| Heat loss          |
| Sensible Heat Gain |
| Cooling CFM        |
| Heating CFM        |

## Air Ducts Sizing

Total measured length of ducts  
 Total equivalent length of fittings  
 Available static pressure for duct  
 Friction rate .08

Use cooling CFM  
 Metal ducts used

|                              | CFM  | No. outlets | Outlet CFM | Duct diam. | Air vel. |
|------------------------------|------|-------------|------------|------------|----------|
| <b>Supply trunk / branch</b> |      |             |            |            |          |
| First section off AHU        | 2000 |             |            | 18.9       | 1028     |
| 1st reduction / branch       | 1400 |             |            | 16.5       | 942      |
| 2nd reduction / branch       | 1000 |             |            | 14.5       | 868      |
| 3rd reduction / branch       | 600  |             |            | 12         | 767      |
| 4th reduction / branch       | 300  |             |            | 9.2        | 648      |
| 5th reduction / branch       |      |             |            | 0          |          |
| <b>Return trunk / branch</b> |      |             |            |            |          |
| First section off AHU        | 2000 |             |            | 18.9       | 1028     |
| 1st reduction / branch       | 1400 |             |            | 16.5       | 942      |
| 2nd reduction / branch       |      |             |            | 0          |          |
| 3rd reduction / branch       |      |             |            | 0          |          |
| 4th reduction / branch       |      |             |            | 0          |          |
| 5th reduction / branch       |      |             |            | 0          |          |
| <b>Room runs</b>             |      |             |            |            |          |
| Kitchen                      | 281  | 1           | 281        | 9          | 637.7    |
| 1/2 bath                     | 72   | 1           | 72         | 5.4        | 458.1    |
| office                       | 190  | 1           | 190        | 7.8        | 579.9    |
| livingroom                   | 207  | 2           | 103.5      | 6.2        | 500.3    |
| hall                         | 86   |             |            | 0          |          |
| den                          | 448  | 1           | 448        | 10.7       | 714.3    |
| bedroom 1                    | 195  | 1           | 195        | 7.8        | 583.6    |
| bedroom 2                    | 117  | 1           | 117        | 6.5        | 515.4    |
| master                       | 324  | 2           | 162        | 7.3        | 557.9    |
| master bath                  | 80   | 1           | 80         | 5.6        | 469.9    |

### Equipment selection as per Manual S

|                      | BTUH  | Nom. Tons |
|----------------------|-------|-----------|
| Total heat loss      | 84995 |           |
| Total heat gain      | 40891 | 3.4       |
| Sensible heat gain   | 39971 |           |
| Latent heat gain     | 920   |           |
| Sensible/total ratio | 0.98  |           |
| Target cooling TD    | 17    |           |

| Design temp. | Outdoor     | Indoor |
|--------------|-------------|--------|
| Winter       | 20          | 70     |
| Summer       | 90          | 74     |
| ID design RH | 50%, 63F WB |        |
| Altitude     |             |        |

Predominantly Cool climate

### Manufacturer's Equipment Specification

| Equipment                               | Manufacturer | Model No.   | BTUH output | Clg. capacity @ OD design temp. |                                |        |
|-----------------------------------------|--------------|-------------|-------------|---------------------------------|--------------------------------|--------|
| Furnace                                 | Goodman      | gmh950904cx | 90000       |                                 |                                |        |
| Boiler                                  |              |             |             | Total                           | Sensible                       | Latent |
| Heat pump / AC                          |              |             |             | 42000                           | 40000                          | 2000   |
| Evaporator                              |              |             |             |                                 |                                |        |
| Air handler                             |              |             |             |                                 |                                |        |
| TOTAL CAPACITY with altitude correction |              |             | 90000       | 42000                           | 40000                          | 2000   |
| Selected equipment size                 |              |             | OK          | OK                              | OK                             | OK     |
|                                         |              |             | Heating CFM | Cooling CFM (rec.)              | Ext. static pressure of blower |        |
|                                         |              |             | 1400        | 2139                            |                                |        |

### Available static pressure for duct

|                           |   |
|---------------------------|---|
| Blower ext. static press. |   |
| coil pressure drop        |   |
| filter pressure drop      |   |
| register pressure drop    |   |
| grille pressure drop      |   |
| other                     |   |
| Available SP for duct     | 0 |

### Supplemental heat needed for heat pump

|                        |  |
|------------------------|--|
| HP capacity @ 47F      |  |
| HP capacity @ 17F      |  |
| HP capacity @ ODDT     |  |
| BTUH supplemental heat |  |
| KW supplemental heat   |  |

# FOR REPLACEMENT FURNACE/BOILER

OLD BTU -- INPUT 80,000 OUTPUT 80,000 70K  
NEW BTU -- INPUT 98,000 OUTPUT 80,000 ~~85,000~~  
96% Furnace 88,400

## A/C REPLACEMENT

OLD UNIT NA TON

NEW UNIT 3.5 TON Goodman 16 Seer  
mod # GSX160421

AND/OR

HEAT LOSS/HEAT GAIN

\*\*\*IF YOU DON'T HAVE OLD BTU'S AND NEW BTU'S OF UNIT'S, YOU WILL  
HAVE TO SUBMIT A HEAT LOSS/HEAT GAIN.

\*\*\*IF THE NEW UNIT BTU IS LESS THAN THE OLD UNIT BTU YOU WILL HAVE  
TO SUBMIT A HEAT LOSS/HEAT GAIN.

\*\*\*\*\*WE ALSO WILL NEED \*\*\*\*\*

\*\*\*\*\*COPY OF THE BROCHURE/SPECS OF THE NEW FURNACE (NOT THE  
INSTALLATION GUIDE) AND /OR AIR CONDITION UNIT.

\*\*\*\*\*CHIMNEY CERTIFICATION

(CANNOT BE CERTIFICATION BY HOMEOWNER)

**Allison Peltier**

C/B - 005322

**From:** Nick Gilman [npgilman@comcast.net]  
**Sent:** Thursday, October 10, 2013 6:31 AM  
**To:** Allison Peltier  
**Subject:** RE: Emailing: 1635 forge pond rd

Good morning Allison;

We were told that because this is an existing building with a replacement of old equipment and the NJ Energy Code did not require this information for existing buildings (101.4.1).

Regardless we will have the calculations done by our heating contractor and submit them. The question we have is do we have to resubmit the entire package or can we file it as an amendment to the permit application?

Thanks

Nick Gilman

-----Original Message-----

**From:** Allison Peltier [<mailto:apelt@twp.brick.nj.us>]  
**Sent:** Wednesday, October 9, 2013 9:27 AM  
**To:** [npgilman@comcast.net](mailto:npgilman@comcast.net)  
**Subject:** Emailing: 1635 forge pond rd

Good Morning,

Attached you will find the Sub-code Official Review comment sheet for the above address.

Please make the necessary corrections and resubmit back to the Brick Building dept for re-review.

Thank you for your cooperation.

Allison  
Brick Building dept

The message is ready to be sent with the following file or link attachments:

1635 forge pond rd

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

# ENGINEERING PERMIT APPLICATION

RECEIVING CLERK: 155  
PERMIT #: \_\_\_\_\_

BLOCK: 826 LOT: 7 ADDRESS: \_\_\_\_\_

## IDENTIFICATION:

1. WORK SITE ADDRESS: 1635 Forge Pond Rd.

2. NAME OF OWNER IN FEE: Charles M. Gilman

ADDRESS: 1635 Forge Pond Rd. PHONE #: [REDACTED]

Brick Township FAX #: ( ) \_\_\_\_\_

3. PRINCIPAL CONTRACTOR: NP Gilman

ADDRESS: 810 Main Ave PHONE #: (732) 966-2332

Bay Head, NJ 08742 FAX #: ( ) \_\_\_\_\_

4. ARCHITECT OR ENGINEER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: # ( ) \_\_\_\_\_

5. RESPONSIBLE PERSON FOR WORK: Nick Gilman

ADDRESS: 810 Main Ave, Bay Head NJ 08742

PHONE #: ( ) \_\_\_\_\_ FAX #: ( ) \_\_\_\_\_ E-MAIL: \_\_\_\_\_

PROJECT DESCRIPTION: ☐ GRADING/CLEARING ☐ ROAD OPENING

☐ SOIL REMOVAL/FILL ☐ RETAINING WALL ☐ POOL

☐ BULKHEAD/DOCK ☐ DWELLING ☐ TREE REMOVAL \_\_\_\_\_

☐ OTHER \_\_\_\_\_

LENGTH: \_\_\_\_\_ WIDTH: \_\_\_\_\_ HEIGHT: \_\_\_\_\_

ENGINEERING REVIEW: \_\_\_\_\_

DATE RECEIVED: 10/5/13

DATE REJECTED: \_\_\_\_\_

DATE APPROVED: 10/5/13

INITIALS: 155

## FEE SUMMARY:

APPLICATION FEE: \$ \_\_\_\_\_

REVIEW FEE: \$ \_\_\_\_\_

INSPECTION FEE: \$ \_\_\_\_\_

OTHER: \$ \_\_\_\_\_

BOND(S): \$ \_\_\_\_\_

TOTAL: \$ \_\_\_\_\_

## SPECIAL CONDITIONS:

OCEAN COUNTY SOILS: \_\_\_\_\_

DRAINAGE EASEMENTS: \_\_\_\_\_

UTILITY EASEMENTS: \_\_\_\_\_

CONSERVATION EASEMENTS: \_\_\_\_\_

FEMA REQUIREMENTS: \_\_\_\_\_

D.E.P. PERMITS: \_\_\_\_\_

BOARD APPROVAL: ☐ PB ☐ ZB

APPLICATION NUMBER: \_\_\_\_\_

APPROVED DATE: \_\_\_\_\_

FLOOD ZONE

PB-E N/A / current "X"



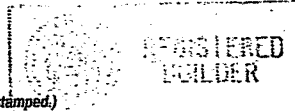
211

STATE OF NEW JERSEY  
DEPARTMENT OF COMMUNITY AFFAIRS  
Division of Codes and Standards  
New Home Warranty Program  
This is to certify that

**N-P GILMAN CONTRACTING LLC**

is a registered builder under  
the New Home Warranty and  
Builder Registration Act,  
(N.J.S.A. 46:38.1 et. seq.)

(This registration expires on the date stamped.)



  
Director

045750 MAR 31 12

New Jersey Office of the Attorney General  
Division of Consumer Affairs  
THIS IS TO CERTIFY THAT THE  
Division of Consumer Affairs  
HAS REGISTERED  
NP Gilman Contracting LLC  
Home Improvement Contractor

NOT AN ELECTRICIAN'S OR PLUMBER'S LICENSE  
01/14/2013 TO 12/31/2013

VALID

  
SIGNATURE

**13VH07165000**

(License/Denotation/Certificate #)

  
ACTING DIRECTOR



# CHIMNEY VERIFICATION FOR REPLACEMENT OF FUEL-FIRED EQUIPMENT

BLOCK \_\_\_\_\_ LOT \_\_\_\_\_ QUALIFICATION CODE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
WORK SITE ADDRESS 1635 Forge Pond Rd  
Owner in Fee Gilman  
Verifying Individual Don Klein Company DK Klein Mechanical INC  
Address P.O. Box 662 Brielle NJ 08730  
Tel: (732) 687-2002 Fax: (732) 528-1208

Check the Appropriate Box(es):

Type of Replacement:

- ☒ Oil to Gas Conversion  
☐ Gas to Oil Conversion  
☐ Gas Appliance Replacement  
☐ Oil to Oil Replacement  
☐ Other \_\_\_\_\_

Existing Vent/Chimney:

- ☐ "B" Label Vent  
☐ "L" Label Vent  
☐ Flexible Liner  
☐ Power Vent/Exhauster

Size \_\_\_\_\_

- ☐ Chimney-Interior  
☐ Chimney-Exterior  
☐ Masonry Chimney-Tile Lined  
☐ Masonry Chimney-Unlined  
☐ Other \_\_\_\_\_

Type

Fuel Type

BTU Rating (input/hour)

Appliance 1: Furnace Oil / Gas / Other: \_\_\_\_\_  
Appliance 2: \_\_\_\_\_ Oil / Gas / Other: \_\_\_\_\_  
Appliance 3: \_\_\_\_\_ Oil / Gas / Other: \_\_\_\_\_

## CHIMNEY LINER

If a chimney liner is being installed, all documentation on the liner must accompany the Permit application.

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ UL Listing: \_\_\_\_\_

Material of Liner: Stainless Steel \_\_\_\_\_ Aluminum \_\_\_\_\_

Size of Appliance Vent: \_\_\_\_\_ Size of Liner: \_\_\_\_\_ Height of Chimney: \_\_\_\_\_

Length of Connector: \_\_\_\_\_ Vent Connector Rise: \_\_\_\_\_

How does the appliance vent? ☐ Natural Draft ☐ Fan-assisted ☒ Other: Direct Vent

## PLEASE SIGN ONE OF THE FOLLOWING VERIFICATION STATEMENTS

### For Oil or Coal to Gas Conversions:

I have verified that the chimney/vent is in good repair and clear of obstruction and is substantially clean of residue from its previous use serving an oil or coal appliance. I have verified that the chimney/vent is appropriately lined and sized for the appliance(s) being installed.

Signature \_\_\_\_\_

Date 9/5/13

### Oil to Oil or Gas to Gas Replacements or New/Additional Appliances:

I have verified that the existing chimney/vent is in good repair and clear of obstruction. I have verified that the existing chimney/vent is appropriately lined and sized for the appliance(s) being installed and/or remaining.

Signature \_\_\_\_\_

Date \_\_\_\_\_

### Direct Vent Appliance:

I hereby verify that the appliance(s) being installed is a direct vent appliance. I further verify that the existing chimney/vent is appropriately lined and sized for any remaining appliances.

Signature \_\_\_\_\_

Date 9/5/13

### Verification Not Submitted:

I choose not to submit verification. I understand that I will be required to be present for the inspection to remove and reinstall the chimney vent connector.

Signature \_\_\_\_\_

Date \_\_\_\_\_

FOR MINOR AND EMERGENCY WORK, THIS FORM MUST BE PROVIDED WITH YOUR PERMIT APPLICATION. FOR ALL OTHER WORK, THIS FORM MUST BE PRESENTED TO THE CODE OFFICIAL PRIOR TO FINAL INSPECTION.

All applicable information requested on this form must be supplied.

This form may not be submitted by a homeowner in lieu of the required inspection.

# Goodman

Air Conditioning & Heating

## GMH95/GCH95

**MULTI-POSITION,  
MULTI-SPEED  
GAS FURNACES**

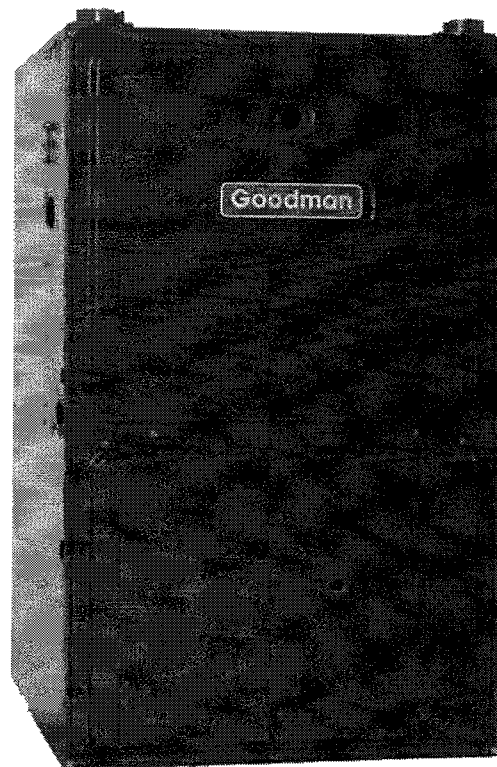
**UP TO 95% AFUE**

### Standard Features

- Dual-diameter tubular heat exchanger
- Two-stage gas valve with DualSaver™ technology that allows installer to activate the two-stage valve with the flip of a dipswitch
- 110V Silicon Nitride igniter
- Furnace control board with self-diagnostics, color-coded low-voltage terminals, and provisions for electronic air cleaner and 24-volt humidifiers
- Control board stores the last five diagnostic codes in memory; simple push-button activation outputs the fault history to a flashing red LED
- Low constant fan allows homeowner to activate the low heat speed to efficiently circulate air throughout the home
- Self-adjusting feature automatically adjusts to high or low stage based on outside temperature without an outdoor temperature sensor
- Dual-certified for sealed combustion direct vent (2-pipe) or non-direct vent (1-pipe) applications
- Easy-to-install top venting is standard; alternate flue/vent located on the right (GMH95)
- All models comply with California NOx emissions standards

### Cabinet Features

- Fully insulated, heavy-gauge steel cabinet with durable baked-enamel finish
- Foil-faced insulation lines the heat exchanger
- Designed for multi-position installation —  
GMH95: upflow, horizontal left or right;  
GCH95/GCH9: downflow, horizontal left or right
- Airtight solid bottom for side-return applications and easy-cut tabs for effortless removal in bottom air inlet applications
- Convenient left/right connection for gas/electric service
- Coil and furnace fit flush for most installations



**DUALSAVER™**  
HEATING PERFORMANCE



Applies to 95% furnaces only.

### Contents

|                              |    |
|------------------------------|----|
| Nomenclature.....            | 2  |
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| Wiring Diagrams.....         | 9  |
| Accessories .....            | 14 |



\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home), 10-Year Unit Replacement Limited Warranty and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.



## NOMENCLATURE

|                                   | G | M | H | 95  | 045   | 4 | B  | X  | A  |                               |
|-----------------------------------|---|---|---|-----|-------|---|----|----|----|-------------------------------|
|                                   | 1 | 2 | 3 | 4,5 | 6,7,8 | 9 | 10 | 11 | 12 |                               |
| <b>Brand</b>                      |   |   |   |     |       |   |    |    |    | <b>Revisions</b>              |
| G Goodman® Brand or Distinctions™ |   |   |   |     |       |   |    |    |    | A Initial Release             |
|                                   |   |   |   |     |       |   |    |    |    | B 1st Revision                |
|                                   |   |   |   |     |       |   |    |    |    | C 2nd Revision                |
| <b>Airflow Direction</b>          |   |   |   |     |       |   |    |    |    | <b>NOx</b>                    |
| C Downflow/Horizontal             |   |   |   |     |       |   |    |    |    | N Natural Gas                 |
| D Dedicated Downflow              |   |   |   |     |       |   |    |    |    | X Low NOx                     |
| H High Airflow                    |   |   |   |     |       |   |    |    |    |                               |
| K Dedicated Upflow                |   |   |   |     |       |   |    |    |    |                               |
| M Upflow/Horizontal               |   |   |   |     |       |   |    |    |    | <b>Cabinet Width</b>          |
|                                   |   |   |   |     |       |   |    |    |    | A 14"                         |
|                                   |   |   |   |     |       |   |    |    |    | B 17½"                        |
|                                   |   |   |   |     |       |   |    |    |    | C 21"                         |
|                                   |   |   |   |     |       |   |    |    |    | D 24½"                        |
| <b>Description</b>                |   |   |   |     |       |   |    |    |    | <b>Maximum CFM @ 0.5" ESP</b> |
| V Two-Stage/Variable-speed        |   |   |   |     |       |   |    |    |    | 3 1200                        |
| H Two-Stage/Multi-speed           |   |   |   |     |       |   |    |    |    | 4 1600                        |
| S Single-Stage/Multi-speed        |   |   |   |     |       |   |    |    |    | 5 2000                        |
| E Two-Stage/EEM Motor             |   |   |   |     |       |   |    |    |    |                               |
| <b>AFUE</b>                       |   |   |   |     |       |   |    |    |    | <b>MBTU/h</b>                 |
| 95 95%                            |   |   |   |     |       |   |    |    |    | 045: 45,000                   |
| 9 93%+                            |   |   |   |     |       |   |    |    |    | 115: 115,000                  |
| 8 80%                             |   |   |   |     |       |   |    |    |    | 070: 70,000                   |
|                                   |   |   |   |     |       |   |    |    |    | 140: 140,000                  |
|                                   |   |   |   |     |       |   |    |    |    | 090: 90,000                   |



# **SPECIFICATIONS FOR GMH95**

|                                             | GMH95<br>0453BXA | GMH95<br>0703BXA | GMH95<br>0704CXA | GMH95<br>0904CXA | GMH95<br>0905CXA | GMH95<br>1155DXA |
|---------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>HEATING CAPACITY</b>                     |                  |                  |                  |                  |                  |                  |
| Input <sup>1</sup>                          | 46,000           | 69,000           | 69,000           | 92,000           | 92,000           | 115,000          |
| Natural Gas Output <sup>1</sup>             | 44,600           | 66,400           | 66,400           | 89,000           | 88,400           | 110,500          |
| LP Gas Output <sup>1</sup>                  | 39,330           | 58,995           | 58,995           | 78,660           | 78,660           | 98,325           |
| AFUE <sup>2</sup>                           | 95               | 95               | 95               | 95               | 95               | 95               |
| Available AC @ 0.5" ESP                     | 3                | 3                | 4                | 4                | 5                | 5                |
| Temperature Rise Range (°F)                 | 35 - 65          | 30 - 60          | 35 - 65          | 30 - 60          | 30 - 60          | 35 - 65          |
| <b>CIRCULATOR BLOWER</b>                    |                  |                  |                  |                  |                  |                  |
| Size (D x W)                                | 10" x 8"         | 10" x 8"         | 10" x 10"        | 10" x 10"        | 11" x 10"        | 11" x 10"        |
| Horsepower @ 1075 RPM                       | ⅓                | ⅓                | ½                | ½                | ¾                | ¾                |
| Speed                                       | 4                | 4                | 4                | 4                | 4                | 4                |
| Vent Diameter <sup>3</sup>                  | 2"               | 2"               | 2"               | 2"               | 3"               | 3"               |
| No. of Burners                              | 2                | 3                | 3                | 4                | 4                | 5                |
| Disposable Filter Size (in <sup>2</sup> )   | 580              | 580              | 770              | 770              | 960              | 960              |
| <b>ELECTRICAL DATA</b>                      |                  |                  |                  |                  |                  |                  |
| Min. Circuit Ampacity <sup>4</sup>          | 9.4              | 9.4              | 13.8             | 13.8             | 13.2             | 13.2             |
| Max. Overcurrent Device (amps) <sup>5</sup> | 15               | 15               | 15               | 15               | 15               | 15               |
| <b>SHIP WEIGHT (LBS)</b>                    | 132              | 135              | 136              | 158              | 172              | 175              |

<sup>1</sup> Natural Gas BTU/h. For altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level.

<sup>2</sup> DOE AFUE based upon Isolated Combustion System (ICS)

<sup>3</sup> Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.

<sup>4</sup> Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>5</sup> Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

## **NOTES:**

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

**SPECIFICATIONS FOR GCH95/GCH9**

|                                             | <b>GCH95<br/>0453BX</b> | <b>GCH95<br/>0703BX</b> | <b>GCH95<br/>0704CX</b> | <b>GCH95<br/>0904CX</b> | <b>GCH95<br/>0905DX</b> | <b>GCH9<br/>1155DX</b> |
|---------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| <b>HEATING CAPACITY</b>                     |                         |                         |                         |                         |                         |                        |
| Input <sup>1</sup>                          | 46,000                  | 69,000                  | 69,000                  | 92,000                  | 92,000                  | 115,000                |
| Natural Gas Output <sup>1</sup>             | 43,700                  | 65,550                  | 65,550                  | 87,400                  | 87,400                  | 106,500                |
| LP Gas Output <sup>1</sup>                  | 39,330                  | 58,995                  | 58,995                  | 78,660                  | 78,660                  | 96,255                 |
| AFUE <sup>2</sup>                           | 95.0                    | 95.0                    | 95.0                    | 95.0                    | 95.0                    | 93.0                   |
| Available AC @ 0.5" ESP                     | 3                       | 3                       | 4                       | 4                       | 5                       | 5                      |
| Temperature Rise Range (°F)                 | 25-55                   | 35-65                   | 25-55                   | 40 - 70                 | 35-65                   | 40 - 70                |
| <b>CIRCULATOR BLOWER</b>                    |                         |                         |                         |                         |                         |                        |
| Size (D x W)                                | 10" x 8"                | 10" x 8"                | 10" x 10"               | 10" x 10"               | 11" x 10"               | 11" x 10"              |
| Horsepower @ 1075 RPM                       | ⅓                       | ⅓                       | ½                       | ½                       | ¾                       | ¾                      |
| Speed                                       | 4                       | 4                       | 4                       | 4                       | 4                       | 4                      |
| Vent Diameter <sup>3</sup>                  | 2"                      | 2"                      | 2"                      | 2"                      | 2"                      | 2"                     |
| No. of Burners                              | 2                       | 3                       | 3                       | 4                       | 4                       | 5                      |
| Disposable Filter Size (in <sup>2</sup> )   | 576                     | 564                     | 564                     | 752                     | 752                     | 940                    |
| <b>ELECTRICAL DATA</b>                      |                         |                         |                         |                         |                         |                        |
| Min. Circuit Ampacity <sup>4</sup>          | 9.8                     | 9.8                     | 12.9                    | 12.9                    | 13.4                    | 13.2                   |
| Max. Overcurrent Device (amps) <sup>5</sup> | 15                      | 15                      | 15                      | 15                      | 15                      | 15                     |
| <b>SHIP WEIGHT (LBS)</b>                    | 132                     | 135                     | 135                     | 156                     | 173                     | 175                    |

<sup>1</sup> Natural Gas BTU/h. For altitudes above 2,000', reduce input rating 4% for each 1,000' above sea level.

<sup>2</sup> DOE AFUE based upon Isolated Combustion System (ICS)

<sup>3</sup> Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.

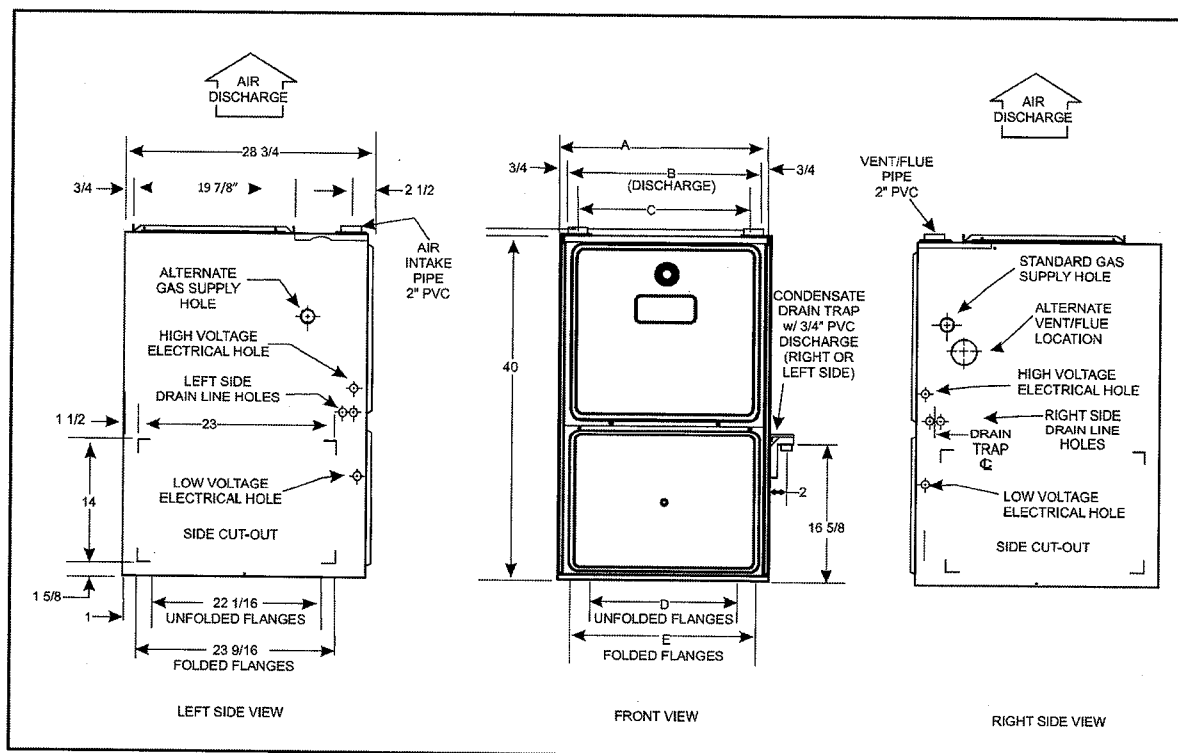
<sup>4</sup> Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

<sup>5</sup> Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

**NOTES:**

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

# GMH95 DIMENSIONS



| MODEL        | A       | B       | C       | D       | E       |
|--------------|---------|---------|---------|---------|---------|
| GMH950453BXA | 17 1/2" | 16"     | 13 3/8" | 12 3/8" | 13 3/8" |
| GMH950703BXA | 17 1/2" | 16"     | 13 3/8" | 12 3/8" | 13 3/8" |
| GMH950704CXA | 21"     | 19 1/2" | 16 1/8" | 16"     | 17 1/2" |
| GMH950904CXA | 21"     | 19 1/2" | 16 1/8" | 16"     | 17 1/2" |
| GMH950905CXA | 21"     | 19 1/2" | 20 5/8" | 19 3/8" | 20 3/8" |
| GMH951155DXA | 24 1/2" | 23"     | 20 5/8" | 19 3/8" | 20 3/8" |

## NOTES:

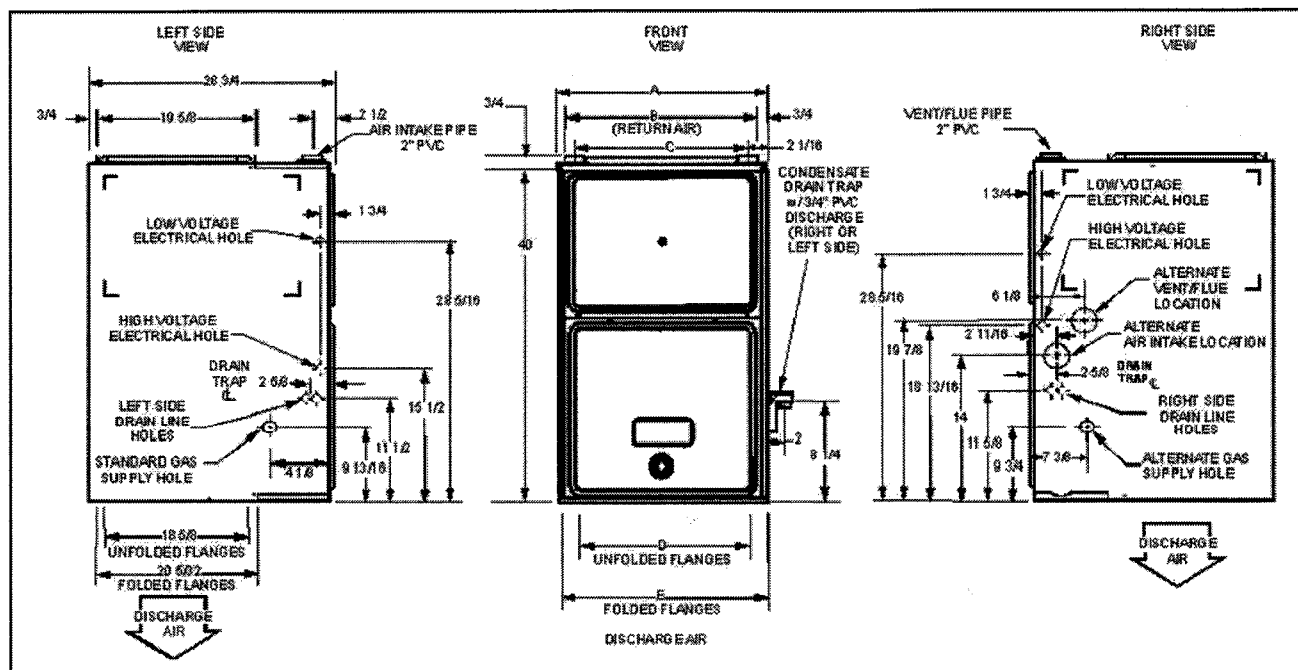
- Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run, and installation (1 or 2 pipes). The optional combustion air pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.
- Line voltage wiring can enter through the right or left side of furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Conversion kits for high-altitude natural gas operation are available. Contact your Goodman distributor or dealer for details.
- Installer must supply the following gas line fittings, according to which entrance is used:  
Left: One 90° street elbow; one 2 1/2" pipe nipple; one 90° elbow; straight pipe; one ground joint union  
Right: Straight pipe to reach gas valve
- Installations using a bottom return: Failure to unfold duct flanges will reduce airflow area by approximately 18%. This could result in performance and noise issues.

## MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

| POSITION   | SIDES | REAR | FRONT | BOTTOM | FLUE | TOP |
|------------|-------|------|-------|--------|------|-----|
| Upflow     | 0"    | 0"   | 1"    | C      | 0"   | 1"  |
| Horizontal | 6"    | 0"   | 1"    | C      | 0"   | 4"  |

- C = If placed on combustible floor, the floor MUST be wood ONLY.
- For servicing or cleaning, a 24" front clearance is recommended.
- Unit connections (electrical, flue, and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.
- Approved for line contact in the horizontal position

## GCH95/GCH9 DIMENSIONS



| MODEL        | A    | B    | C    | D    | E    |
|--------------|------|------|------|------|------|
| GCH950453BXA | 17½" | 16"  | 12¾" | 14½" | 16"  |
| GCH950703BXA | 17½" | 16"  | 12¾" | 14½" | 16"  |
| GCH950704CXA | 21"  | 19½" | 16¾" | 18"  | 19½" |
| GCH950904CXA | 21"  | 19½" | 16¾" | 18"  | 19½" |
| GCH950905DXA | 24½" | 23"  | 20¾" | 21½" | 23"  |
| GCH91155DXA  | 24½" | 23"  | 20¾" | 21½" | 23"  |

### NOTES:

- Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run, and installation (1 or 2 pipes). The optional combustion air pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.
- Line voltage wiring can enter through the right or left side of furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Conversion kits for high-altitude natural gas operation are available. Contact your Goodman distributor or dealer for details.
- Installer must supply the following gas line fittings, according to which entrance is used:  
**Left:** One 90° street elbow; one 2½" pipe nipple; one 90° elbow; straight pipe; one ground joint union  
**Right:** Straight pipe to reach gas valve
- Installations using a bottom return: Failure to unfold duct flanges will reduce airflow area by approximately 18%. This could result in performance and noise issues.

### MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

| POSITION   | SIDES | REAR | FRONT | BOTTOM | FLUE | TOP |
|------------|-------|------|-------|--------|------|-----|
| Downflow   | 0"    | 0"   | 1"    | NC     | 0"   | 1"  |
| Horizontal | 6"    | 0"   | 1"    | C      | 0"   | 4"  |

C = Combustible: If placed on combustible floor, the floor MUST be wood ONLY.

NC = Non-Combustible: A combustible floor sub-base must be used for installation on combustible flooring

### NOTES:

- For servicing or cleaning, a 24" front clearance is recommended.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed below.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

# **GMH95 AIRFLOW DATA**

**(CFM & TEMPERATURE RISE VS. EXTERNAL STATIC PRESSURE)**

| MODEL            | MOTOR SPEED | TONS AC <sup>1</sup> | EXTERNAL STATIC PRESSURE, (INCHES WATER COLUMN) |      |       |      |       |      |       |      |       |      |       |       |       |
|------------------|-------------|----------------------|-------------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|
|                  |             |                      | 0.1                                             |      | 0.2   |      | 0.3   |      | 0.4   |      | 0.5   |      | 0.6   | 0.7   | 0.8   |
|                  |             |                      | CFM                                             | RISE | CFM   | RISE | CFM   | RISE | CFM   | RISE | CFM   | RISE | CFM   | CFM   | CFM   |
| GMH95<br>0453BXA | High        | 3                    | 1,352                                           | 29   | 1,318 | 30   | 1,260 | 31   | 1,202 | 33   | 1,128 | 35   | 1,044 | 955   | 853   |
|                  | Med         | 2.5                  | 1,214                                           | 32   | 1,172 | 34   | 1,123 | 35   | 1,064 | 37   | 1,012 | 39   | 938   | 859   | 741   |
|                  | Med-Lo      | 2                    | 997                                             | 40   | 994   | 40   | 960   | 41   | 923   | 43   | 884   | 45   | 817   | 741   | 611   |
|                  | Low         | 1.5                  | 757                                             | 52   | 753   | 52   | 734   | 54   | 704   | 56   | 674   | 59   | 620   | 524   | 438   |
| GMH95<br>0703BXA | High        | 3                    | 1,449                                           | 41   | 1,409 | 42   | 1,326 | 45   | 1,273 | 47   | 1,201 | 49   | 1,194 | 1,136 | 1,018 |
|                  | Med         | 2.5                  | 1,192                                           | 50   | 1,172 | 51   | 1,141 | 52   | 1,094 | 54   | 1,046 | 57   | 973   | 904   | 793   |
|                  | Med-Lo      | 2                    | 981                                             | 61   | 962   | 62   | 943   | 63   | 917   | 65   | 888   | 67   | 830   | 764   | 665   |
|                  | Low         | 1.5                  | 750                                             | 79   | 730   | 81   | 714   | 83   | 692   | 86   | 657   | 90   | 620   | 570   | 502   |
| GMH95<br>0704CXA | High        | 4                    | 2,069                                           | 29   | 1,965 | 30   | 1,871 | 32   | 1,756 | 34   | 1,661 | 36   | 1,549 | 1,415 | 1,275 |
|                  | Med         | 3.5                  | 1,752                                           | 34   | 1,724 | 34   | 1,667 | 36   | 1,603 | 37   | 1,488 | 40   | 1,402 | 1,290 | 1,082 |
|                  | Med-Lo      | 3                    | 1,437                                           | 41   | 1,437 | 41   | 1,417 | 42   | 1,369 | 43   | 1,320 | 45   | 1,256 | 1,140 | 984   |
|                  | Low         | 2.5                  | 1,184                                           | 50   | 1,177 | 50   | 1,161 | 51   | 1,132 | 52   | 1,095 | 54   | 1,047 | 928   | 837   |
| GMH95<br>0904CXA | High        | 4                    | 1,970                                           | 40   | 1,874 | 42   | 1,757 | 45   | 1,667 | 48   | 1,566 | 51   | 1,431 | 1,334 | 1,182 |
|                  | Med         | 3.5                  | 1,713                                           | 46   | 1,650 | 48   | 1,572 | 50   | 1,510 | 52   | 1,418 | 56   | 1,313 | 1,211 | 1,079 |
|                  | Med-Lo      | 3                    | 1,439                                           | 55   | 1,412 | 56   | 1,370 | 58   | 1,327 | 60   | 1,260 | 63   | 1,166 | 1,078 | 956   |
|                  | Low         | 2.5                  | 1,183                                           | 67   | 1,155 | 69   | 1,122 | 71   | 1,108 | 72   | 1,062 | 75   | 1,011 | 931   | 816   |
| GMH95<br>0905CXA | High        | 5                    | 2,147                                           | 37   | 2,114 | 37   | 2,057 | 39   | 2,030 | 39   | 1,978 | 40   | 1,889 | 1,784 | 1,713 |
|                  | Med         | 4                    | 1,675                                           | 47   | 1,686 | 47   | 1,640 | 48   | 1,623 | 49   | 1,557 | 51   | 1,501 | 1,455 | 1,360 |
|                  | Med-Lo      | 3.5                  | 1,489                                           | 53   | 1,470 | 54   | 1,436 | 55   | 1,409 | 56   | 1,361 | 58   | 1,318 | 1,243 | 1,130 |
|                  | Low         | 3                    | 1,307                                           | 61   | 1,265 | 63   | 1,234 | 64   | 1,203 | 66   | 1,168 | 68   | 1,096 | 1,053 | 991   |
| GMH95<br>1155DXA | High        | 5                    | 2,134                                           | 46   | 2,103 | 47   | 2,029 | 48   | 1,941 | 51   | 1,906 | 51   | 1,818 | 1,733 | 1,625 |
|                  | Med         | 4                    | 1,678                                           | 58   | 1,643 | 60   | 1,643 | 60   | 1,577 | 62   | 1,527 | 64   | 1,489 | 1,423 | 1,339 |
|                  | Med-Lo      | 3.5                  | 1,453                                           | 68   | 1,440 | 68   | 1,426 | 69   | 1,363 | 72   | 1,349 | 73   | 1,314 | 1,253 | 1,205 |
|                  | Low         | 3                    | 1,259                                           | 78   | 1,239 | 79   | 1,220 | 80   | 1,181 | 83   | 1,159 | 85   | 1,118 | 1,082 | 1,015 |

<sup>1</sup> @0.5" ESP

**NOTES:**

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer.
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower cooling & heating speed as needed.
- For most applications, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- The chart is for information only. For satisfactory operation, external static pressure should not exceed value shown on the rating plate.
- The above chart is for furnaces installed at 0-2000 feet. At higher altitudes, a properly de-rated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.

# **GCH95/GCH9 AIRFLOW DATA**

**(CFM & TEMPERATURE RISE VS. EXTERNAL STATIC PRESSURE)**

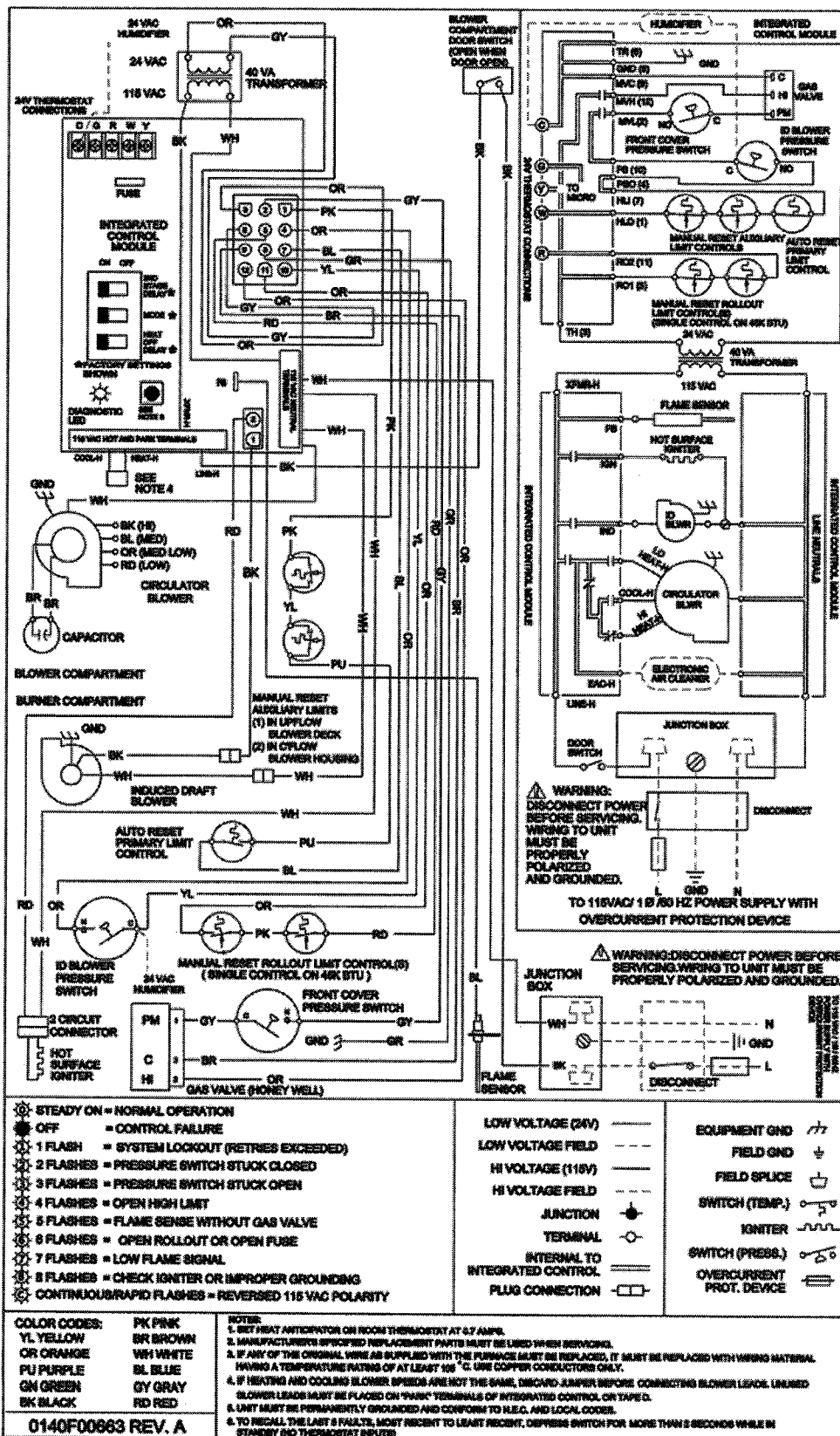
| MODEL           | MOTOR SPEED | TONS AC <sup>1</sup> | EXTERNAL STATIC PRESSURE, (INCHES WATER COLUMN) |      |       |      |       |      |       |      |       |      |       |       |       |
|-----------------|-------------|----------------------|-------------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|
|                 |             |                      | 0.1                                             |      | 0.2   |      | 0.3   |      | 0.4   |      | 0.5   |      | 0.6   | 0.7   | 0.8   |
|                 |             |                      | CFM                                             | RISE | CFM   | RISE | CFM   | RISE | CFM   | RISE | CFM   | RISE | CFM   | CFM   | CFM   |
| GCH95<br>0453BX | High        | 3                    | 1,415                                           | 28   | 1,352 | 30   | 1,290 | 31   | 1,196 | 34   | 1,127 | 36   | 1,035 | 936   | 825   |
|                 | Med         | 2.5                  | 1,221                                           | 33   | 1,178 | 34   | 1,127 | 36   | 1,073 | 38   | 1,007 | 40   | 932   | 834   | 733   |
|                 | Med-Lo      | 2                    | 1,034                                           | 39   | 1,000 | 40   | 976   | 41   | 935   | 43   | 881   | 46   | 818   | 733   | 662   |
|                 | Low         | 1.5                  | 860                                             | 47   | 845   | 48   | 812   | 50   | 783   | 51   | 740   | 54   | 682   | 619   | 534   |
| GCH95<br>0703BX | High        | 3                    | 1,431                                           | 42   | 1,368 | 44   | 1,296 | 47   | 1,228 | 49   | 1,150 | 53   | 1,055 | 962   | 860   |
|                 | Med         | 2.5                  | 1,212                                           | 50   | 1,182 | 51   | 1,138 | 53   | 1,091 | 55   | 1,019 | 59   | 944   | 871   | 769   |
|                 | Med-Lo      | 2                    | 1,002                                           | 60   | 978   | 62   | 956   | 63   | 921   | 66   | 878   | 69   | 825   | 738   | 647   |
|                 | Low         | 1.5                  | 813                                             | 74   | 805   | 75   | 790   | 76   | 759   | 80   | 726   | 83   | 689   | 644   | 605   |
| GCH95<br>0704CX | High        | 4                    | 1,755                                           | 34   | 1,674 | 36   | 1,632 | 37   | 1,510 | 40   | 1,423 | 42   | 1,325 | 1,241 | 1,116 |
|                 | Med         | 3.5                  | 1,656                                           | 36   | 1,585 | 38   | 1,536 | 39   | 1,429 | 42   | 1,355 | 45   | 1,268 | 1,145 | 1,059 |
|                 | Med-Lo      | 3                    | 1,551                                           | 39   | 1,488 | 41   | 1,427 | 42   | 1,353 | 45   | 1,290 | 47   | 1,195 | 1,100 | 1,017 |
|                 | Low         | 2.5                  | 1,286                                           | 47   | 1,258 | 48   | 1,241 | 49   | 1,185 | 51   | 1,112 | 54   | 1,067 | 983   | 886   |
| GCH95<br>0904CX | High        | 4                    | 1,734                                           | 46   | 1,652 | 49   | 1,578 | 51   | 1,508 | 53   | 1,413 | 57   | 1,336 | 1,248 | 1,154 |
|                 | Med         | 3.5                  | 1,642                                           | 49   | 1,558 | 52   | 1,487 | 54   | 1,418 | 57   | 1,336 | 60   | 1,243 | 1,164 | 1,039 |
|                 | Med-Lo      | 3                    | 1,522                                           | 53   | 1,458 | 55   | 1,396 | 58   | 1,321 | 61   | 1,253 | 64   | 1,182 | 1,101 | 986   |
|                 | Low         | 2.5                  | 1,287                                           | 63   | 1,244 | 65   | 1,184 | 68   | 1,148 | 70   | 1,098 | 73   | 1,034 | 953   | 849   |
| GCH95<br>0905DX | High        | 5                    | 2,189                                           | 37   | 2,109 | 38   | 2,025 | 40   | 1,948 | 41   | 1,862 | 43   | 1,757 | 1,644 | 1,537 |
|                 | Med         | 4                    | 1,885                                           | 43   | 1,831 | 44   | 1,776 | 45   | 1,711 | 47   | 1,637 | 49   | 1,539 | 1,453 | 1,346 |
|                 | Med-Lo      | 3.5                  | 1,665                                           | 48   | 1,627 | 50   | 1,584 | 51   | 1,524 | 53   | 1,462 | 55   | 1,400 | 1,323 | 1,220 |
|                 | Low         | 3                    | 1,474                                           | 55   | 1,440 | 65   | 1,401 | 57   | 1,356 | 59   | 1,310 | 61   | 1,255 | 1,193 | 1,109 |
| GCH9<br>1155DX  | High        | 5                    | 2,134                                           | 46   | 2,103 | 47   | 2,029 | 48   | 1,941 | 51   | 1,906 | 51   | 1,818 | 1,733 | 1,625 |
|                 | Med         | 4                    | 1,678                                           | 58   | 1,643 | 60   | 1,643 | 60   | 1,577 | 62   | 1,527 | 64   | 1,489 | 1,423 | 1,339 |
|                 | Med-Lo      | 3.5                  | 1,453                                           | 68   | 1,440 | 68   | 1,426 | 69   | 1,363 | 72   | 1,349 | 73   | 1,314 | 1,253 | 1,205 |
|                 | Low         | 3                    | 1,259                                           | 78   | 1,239 | 79   | 1,220 | 80   | 1,181 | 83   | 1,159 | 85   | 1,118 | 1,082 | 1,015 |

<sup>1</sup> @0.5" ESP

**NOTES:**

- CFM in chart is without filter(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
- All furnaces ship as high-speed cooling and medium-speed heating. Installer must adjust blower cooling and heating speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
- This chart is for information only. For satisfactory operation, external static pressure should not exceed value shown on the rating plate.
- The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while ESP at the CFM will be lower.

## GMH95 WIRING DIAGRAM WITH HONEYWELL VALVE

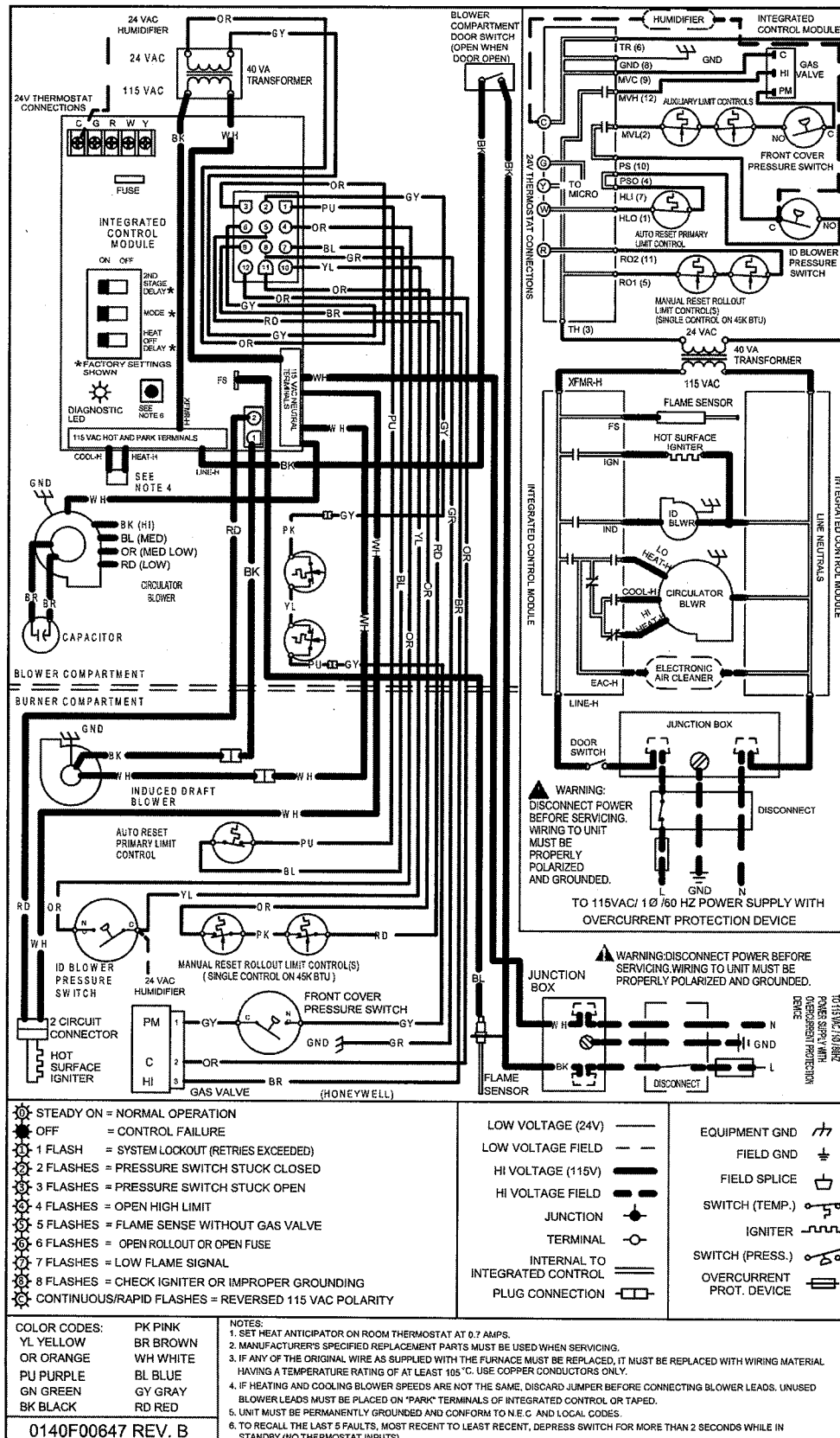


**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**⚠ WARNING**

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring

# GCH95/GCH9115 WIRING DIAGRAM WITH HONEYWELL VALVE

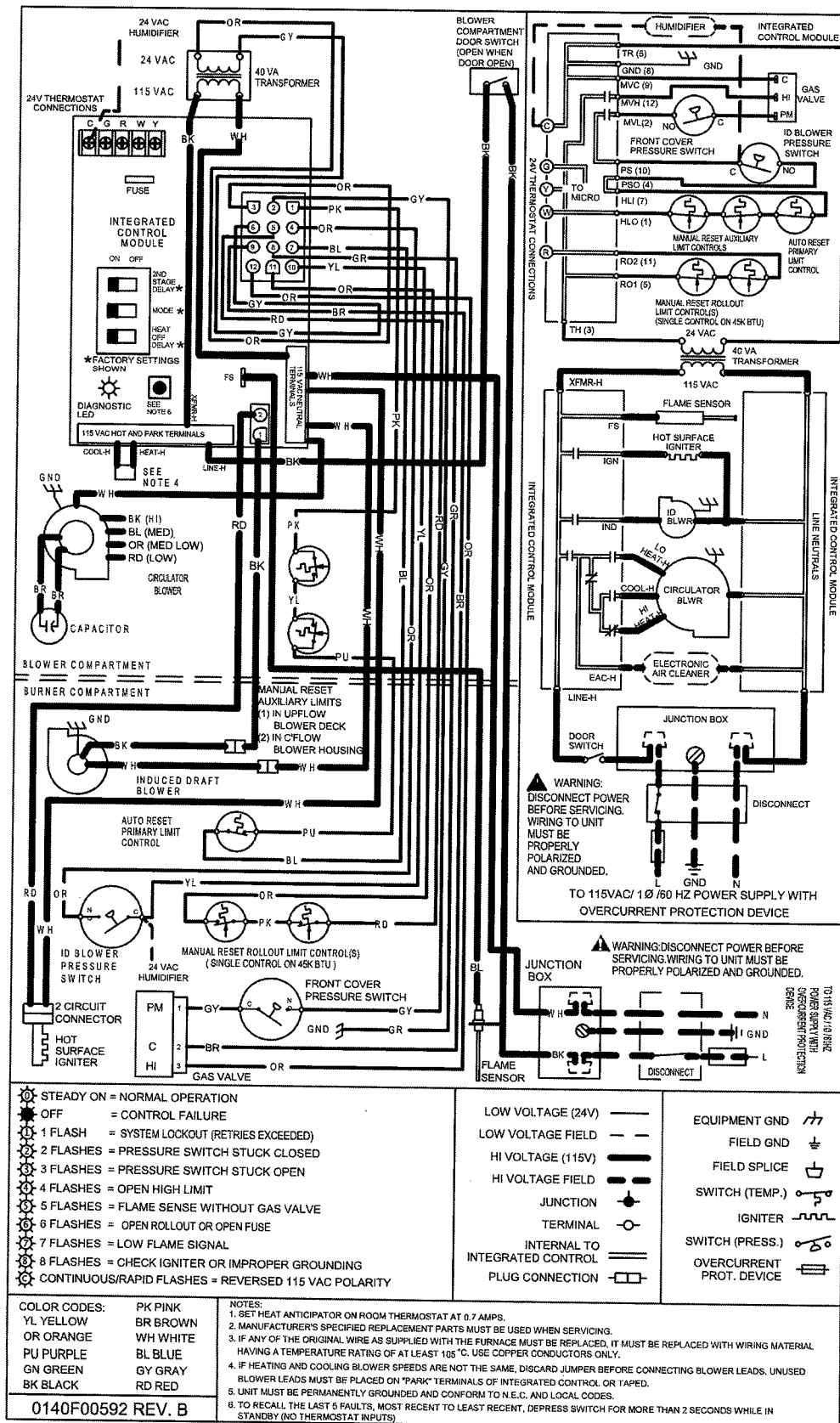


High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**WARNING**

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

# GMH95/GCH9 WIRING DIAGRAM WITH WHITE-RODGERS VALVE

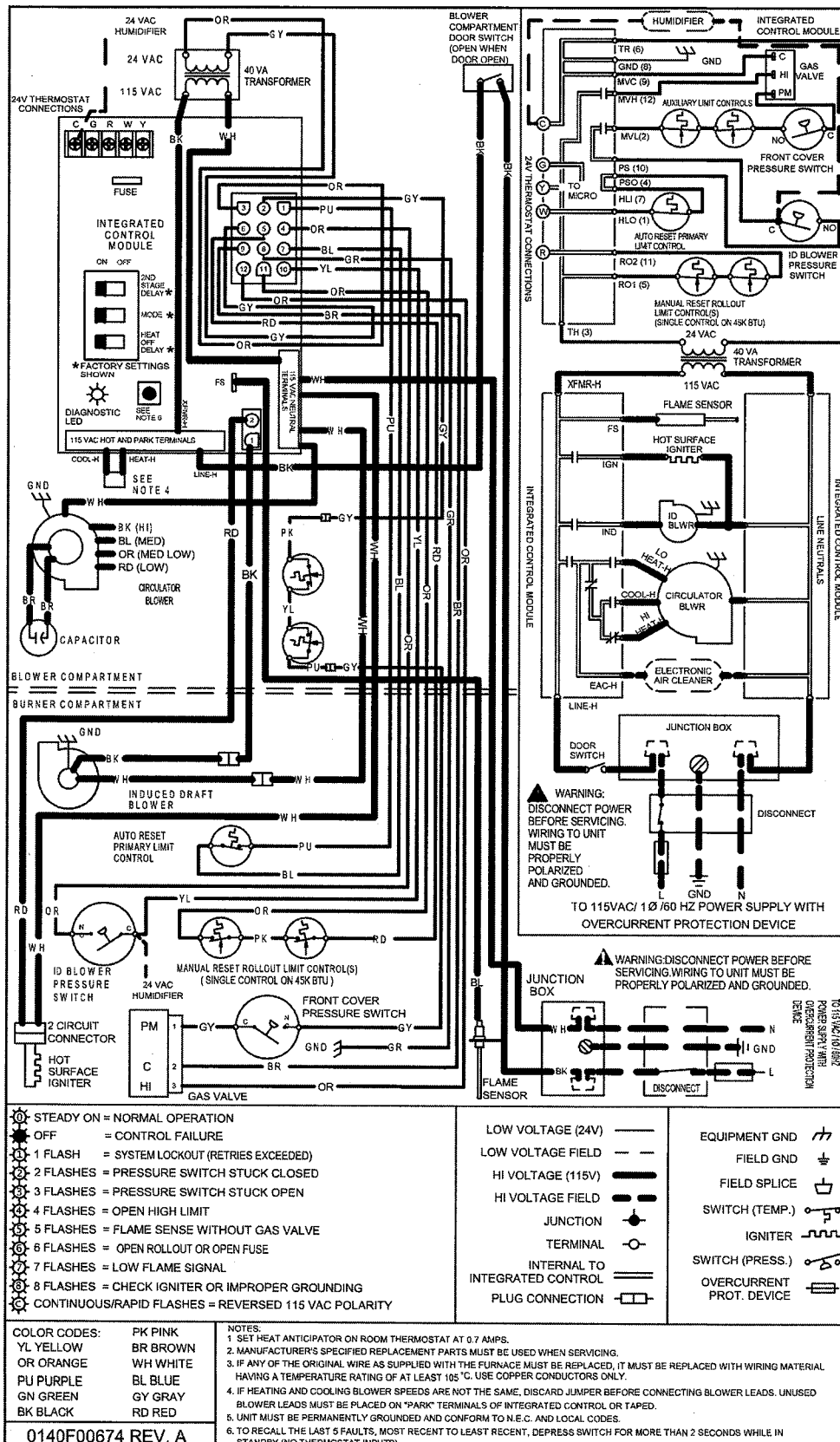


**WARNING**

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

# GCH95 WIRING DIAGRAM WITH WHITE-RODGERS VALVE

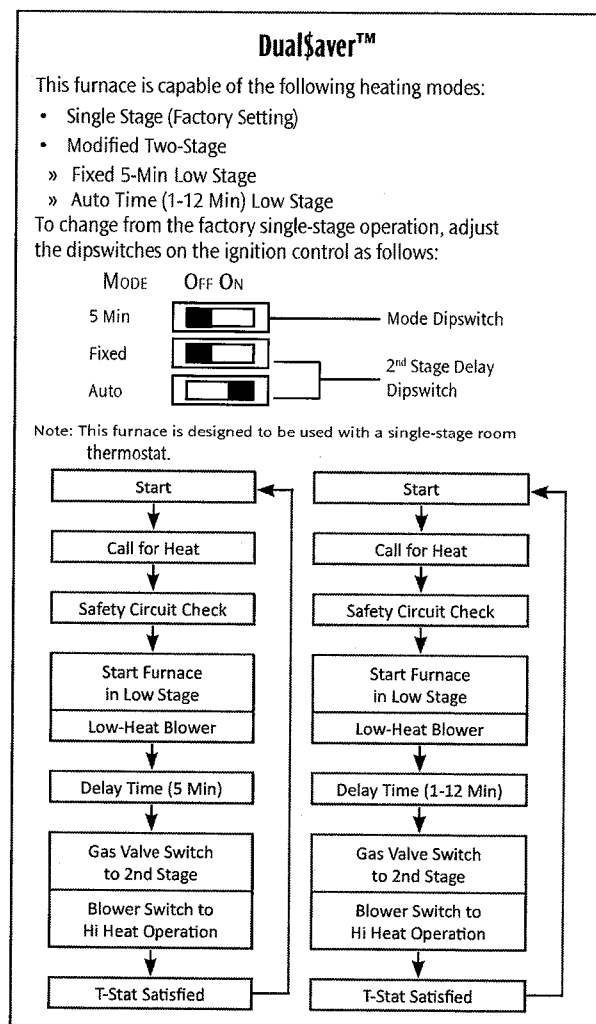


High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

**WARNING**

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

## DUAL\$AVER CONFIGURATION & OPERATION



## THERMOSTATS

| MODEL    | DESCRIPTION                                |
|----------|--------------------------------------------|
| CHT18-60 | Cooling/Heating, Mechanical                |
| CH70TG   | Cooling/Heating, Digital, Non-programmable |
| CHSATG   | Cooling/Heating, Mechanical                |
| H20TWR   | Heating Only, Mechanical                   |

## ACCESSORIES — GMH95

| ACCESSORY   | DESCRIPTION                                        | GMH95<br>0453BXA | GMH95<br>0703BXA | GMH95<br>0704CXA | GMH95<br>0904CXA | GMH95<br>0905DXA | GMH95<br>1155DXA |
|-------------|----------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| LPM-05      | LP Conversion Kit (Springs & Orifice) <sup>1</sup> | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| LPM-06      | LP Conversion Kit (Springs & Orifice) <sup>2</sup> | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| LPLP01      | LP Gas Low-Pressure Kit                            | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| GSAS        | Electronic Air Cleaners (-10, -11, -12, -18)       | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| GMU         | Media Air Cleaners (1620, 2020, 1625, 2025)        | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| HANG11      | High Altitude Natural Gas Kit                      | 1                | 1                | 1                | 1                | 1                | 1                |
| HANG12      | High Altitude Natural Gas Kit                      | 2                | 2                | 2                | 2                | 2                | 2                |
| HALP10      | High Altitude LP Gas Kit                           | 3                | 3                | 3                | 3                | 3                | 3                |
| HAPS27      | High Altitude Pressure Switch Kit                  | 3                | 3                | 3                | 3                | 3                | 3                |
| FTK04       | Twinning Kit                                       | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| EFR01       | External Filter Rack                               | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| DCVK-20     | Horizontal/Vertical Concentric Vent Kit (2")       | ✓                | ✓                | ---              | ---              | ---              | ---              |
| DCVK-30     | Horizontal/Vertical Concentric Vent Kit (3")       | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |
| 0170K00000S | Flush-mount Vent Kit                               | ✓                | ✓                | ✓                | ✓                | ✓                | ✓                |

<sup>1</sup> White-Rodgers valves only

<sup>2</sup> White-Rodgers and Honeywell valves

✓ Indicates accessories available for this model

1 Indicates 7,001' to 9,000' altitude

2 Indicates 9,001' to 11,000' altitude

3 Indicates 7,001' to 11,000' altitude

### NOTES

- All installations above 7,000' require a pressure switch change. For installation in Canada, furnaces are certified only to 4,500'.
- Downflow Floor base: When the GCH9 model is installed directly on a wood floor, a downflow floor base must be used. Those model numbers are: CFB17, CFB21 and CFB24.

# **ACCESSORIES — GCH95/9**

| ACCESSORY   | DESCRIPTION                                        | GCH95<br>0453BXA | GCH95<br>0703BXA | GCH95<br>0704CXA | GCH95<br>0904CXA | GCH95<br>0905DXA | GCH9<br>1155DXA |
|-------------|----------------------------------------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| LPM-05      | LP Conversion Kit (Springs & Orifice) <sup>1</sup> | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |
| LPM-06      | LP Conversion Kit (Springs & Orifice) <sup>2</sup> | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |
| LPLP01      | LP Gas Low-Pressure Kit                            |                  |                  |                  |                  |                  | ✓               |
| GSAS        | Electronic Air Cleaners (-10, -11, -12, -18)       | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |
| GMU         | Media Air Cleaners (1620, 2020, 1625, 2025)        | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |
| HANG11      | High Altitude Natural Gas Kit                      | 1                | 1                | 1                | 1                | 1                | 1               |
| HANG12      | High Altitude Natural Gas Kit                      | 2                | 2                | 2                | 2                | 2                | 2               |
| HALP10      | High Altitude LP Gas Kit                           | 3                | 3                | 3                | 3                | 3                | 3               |
| HAPS27      | High Altitude Pressure Switch Kit                  | 3                | 3                | 3                | 3                | 3                | 3               |
| EFR01       | External Filter Rack                               | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |
| DCVK-20     | Horizontal/Vertical Concentric Vent Kit (2")       | ✓                | ✓                | ---              | ---              | ---              | ---             |
| DCVK-30     | Horizontal/Vertical Concentric Vent Kit (3")       | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |
| 0170K00000S | Flush-mount Vent Kit                               | ✓                | ✓                | ✓                | ✓                | ✓                | ✓               |

<sup>1</sup> White-Rodgers valves only

<sup>2</sup> White-Rodgers and Honeywell valves

✓ Indicates accessories available for this model

1 Indicates 7,001' to 9,000' altitude

2 Indicates 9,001' to 11,000' altitude

3 Indicates 7,001' to 11,000' altitude

## **NOTES**

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NOTES



# Goodman

Air Conditioning & Heating



## GSX16

**HIGH-EFFICIENCY**

**SPLIT SYSTEM AIR CONDITIONER**

**1½ To 5 Tons**

**UP TO 16 SEER**

### Cabinet Features

- Goodman® brand louvered sound control top design
- Steel louver coil guard
- Heavy-gauge galvanized-steel cabinet
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval
- Top and side maintenance access
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)

### Standard Features

- R-410A chlorine-free refrigerant
- Energy-efficient compressor
- Factory-installed filter drier
- Fully charged for 15' of tubing length
- Copper tube/aluminum fin coil
- Service valves with sweat connections and easy-to-access gauge ports
- Contactor with lug connection
- Ground lug connection
- AHRI Certified; ETL Listed

### Contents

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\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec.

# NOMENCLATURE

|                  | G                                                  | S | X | 16  | 036   | 1 | *  | *  |                                                            |
|------------------|----------------------------------------------------|---|---|-----|-------|---|----|----|------------------------------------------------------------|
|                  | 1                                                  | 2 | 3 | 4,5 | 6,7,8 | 9 | 10 | 11 |                                                            |
| Brand            |                                                    |   |   |     |       |   |    |    | Engineering *                                              |
| G                | Goodman® Brand or<br>Amana® Distinctions®<br>Brand |   |   |     |       |   |    |    | Minor Revision                                             |
|                  |                                                    |   |   |     |       |   |    |    | * Neither used for order entry<br>or inventory management. |
| Product Category |                                                    |   |   |     |       |   |    |    | Engineering *                                              |
| S                | Split System                                       |   |   |     |       |   |    |    | Major Revision                                             |
| Unit Type        |                                                    |   |   |     |       |   |    |    | Electrical                                                 |
| X                | Condenser R-410A                                   |   |   |     |       |   |    |    | 1 208-230 V, 1 Phase, 60 Hz                                |
| Z                | Heat Pump R-410A                                   |   |   |     |       |   |    |    | 2 220/240 V, 1 Phase, 50 Hz                                |
|                  |                                                    |   |   |     |       |   |    |    | 3 208-230 V, 3 Phase, 60 Hz                                |
| Efficiency       |                                                    |   |   |     |       |   |    |    | Nominal Capacity                                           |
| 13               | 13 SEER                                            |   |   |     |       |   |    |    | 018 1½ Tons 042 3½ Tons                                    |
| 14               | 14 SEER                                            |   |   |     |       |   |    |    | 024 2 Tons 048 4 Tons                                      |
| 16               | 16 SEER                                            |   |   |     |       |   |    |    | 030 2½ Tons 060 5 Tons                                     |
|                  |                                                    |   |   |     |       |   |    |    | 036 3 Tons                                                 |



**SPECIFICATIONS**

|                                          | <b>GSX16<br/>0181F*</b> | <b>GSX16<br/>0241F*</b> | <b>GSX16<br/>0301F*</b> | <b>GSX16<br/>0361F*</b> | <b>GSX16<br/>0421F*</b> | <b>GSX16<br/>0481F*</b> | <b>GSX16<br/>0601F*</b> |
|------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>CAPACITIES</b>                        |                         |                         |                         |                         |                         |                         |                         |
| Nominal Cooling (BTU/h)                  | 18,000                  | 23,600                  | 29,000                  | 34,800                  | 42,000                  | 45,500                  | 54,000                  |
| SEER / EER                               | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      | 16                      |
| Decibels                                 | 73.5                    | 73.5                    | 73.5                    | 73.5                    | 75                      | 75                      | 75                      |
| <b>COMPRESSOR</b>                        |                         |                         |                         |                         |                         |                         |                         |
| RLA                                      | 9.0                     | 13.5                    | 12.8                    | 14.1                    | 17.9                    | 17.9                    | 21.4                    |
| LRA                                      | 46                      | 58.3                    | 64                      | 77                      | 112                     | 112                     | 135                     |
| <b>CONDENSER FAN MOTOR</b>               |                         |                         |                         |                         |                         |                         |                         |
| Horsepower                               | 1/6                     | 1/6                     | 1/6                     | 1/6                     | 1/4                     | 1/4                     | 1/3                     |
| FLA                                      | 1.10                    | 1.10                    | 1.10                    | 1.10                    | 1.50                    | 1.50                    | 2.80                    |
| <b>REFRIGERATION SYSTEM</b>              |                         |                         |                         |                         |                         |                         |                         |
| Refrigerant Line Size <sup>1</sup>       |                         |                         |                         |                         |                         |                         |                         |
| Liquid Line Size ("O.D.)                 | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    |
| Suction Line Size ("O.D.)                | 1/4"                    | 1/4"                    | 7/8"                    | 7/8"                    | 7/8"                    | 7/8"                    | 7/8"                    |
| Refrigerant Connection Size              |                         |                         |                         |                         |                         |                         |                         |
| Liquid Valve Size ("O.D.)                | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    | 3/8"                    |
| Suction Valve Size ("O.D.)               | 1/4"                    | 1/4"                    | 7/8"                    | 7/8"                    | 7/8"                    | 7/8"                    | 7/8"                    |
| Valve Type                               | Sweat                   | Sweat                   | Sweat                   | Sweat                   | Sweat                   | Sweat                   | Sweat                   |
| Refrigerant Charge                       | 80                      | 89                      | 100                     | 109                     | 120                     | 152                     | 290                     |
| <b>ELECTRICAL DATA</b>                   |                         |                         |                         |                         |                         |                         |                         |
| Voltage                                  | 208/230-1               | 208/230-1               | 208/230-1               | 208/230-1               | 208/230-1               | 208/230-1               | 208/230-1               |
| Minimum Circuit Ampacity <sup>2</sup>    | 18.6                    | 18.0                    | 17.1                    | 18.7                    | 23.9                    | 23.9                    | 29.6                    |
| Max. Overcurrent Protection <sup>3</sup> | 30                      | 30                      | 30                      | 30                      | 40                      | 40                      | 50                      |
| Min / Max Volts                          | 197/253                 | 197/253                 | 197/253                 | 197/253                 | 197/253                 | 197/253                 | 197/253                 |
| Electrical Conduit Size                  | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            | 1/2" or 3/4"            |
| <b>EQUIPMENT WEIGHT (LBS)</b>            | 175                     | 175                     | 182                     | 207                     | 282                     | 289                     | 316                     |
| <b>SHIP WEIGHT (LBS)</b>                 | 193                     | 193                     | 200                     | 225                     | 304                     | 311                     | 338                     |

<sup>1</sup> Tested and rated in accordance with ARI Standard 210/240

<sup>2</sup> Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

<sup>3</sup> Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

**NOTES**

- Always check the S&R plate for electrical data on the unit being installed.
- Installer will need to supply 3/4" to 1 1/4" adapters for suction line connections.
- Unit is charged with refrigerant for 15' of 3/4" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.

# EXPANDED COOLING DATA — GSX160181F\* / CA\*F3636\*6D\*+TXV

| IDB   |       | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      | ENTERING INDOOR WET BULB TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      | 105°F |      |      |      |      |      |       |      |      |  |  |  | 115°F |  |  |  |  |  |  |  |  |  |  |  |
|-------|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|-------|------|------|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|
|       |       | 65°F                        |      |      |      |      |      | 75°F |      |      |      |      |      | 85°F                                 |      |      |      |      |      | 95°F |      |      |      |      |      | 105°F |      |      |      |      |      | 115°F |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       |       | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59   | 63   | 67    | 71   |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 70    | MBh   | 15.8                        | 16.4 | 17.9 | -    | 15.4 | 16.0 | 17.5 | -    | 15.1 | 15.6 | 17.1 | -    | 14.7                                 | 15.2 | 16.7 | -    | 14.0 | 14.5 | 15.9 | -    | 12.9 | 13.4 | 14.7 | -    | 12.9  | 13.4 | 14.7 | -    | 12.9 | 13.4 | 14.7  | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | S/T   | 0.68                        | 0.57 | 0.40 | -    | 0.71 | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.75                                 | 0.63 | 0.43 | -    | 0.78 | 0.65 | 0.45 | -    | 0.78 | 0.66 | 0.45 | -    | 0.78  | 0.66 | 0.45 | -    | 0.78 | 0.66 | 0.45  | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | ΔT    | 19                          | 16   | 12   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19                                   | 17   | 13   | -    | 19   | 16   | 13   | -    | 18   | 15   | 12   | -    | 18    | 15   | 12   | -    | 18   | 15   | 12    | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | kW    | 1.18                        | 1.20 | 1.23 | -    | 1.26 | 1.28 | 1.31 | -    | 1.32 | 1.35 | 1.38 | -    | 1.38                                 | 1.41 | 1.45 | -    | 1.43 | 1.46 | 1.50 | -    | 1.47 | 1.50 | 1.54 | -    | 1.47  | 1.50 | 1.54 | -    | 1.47 | 1.50 | 1.54  | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Amps  | 4.3                         | 4.3  | 4.5  | -    | 4.6  | 4.7  | 4.8  | -    | 4.9  | 5.0  | 5.2  | -    | 5.2                                  | 5.4  | 5.5  | -    | 5.6  | 5.7  | 5.9  | -    | 5.9  | 6.0  | 6.2  | -    | 5.9   | 6.0  | 6.2  | -    | 5.9  | 6.0  | 6.2   | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Hi PR | 199                         | 214  | 226  | -    | 223  | 240  | 254  | -    | 254  | 273  | 289  | -    | 289                                  | 311  | 329  | -    | 326  | 350  | 370  | -    | 360  | 387  | 409  | -    | 360   | 387  | 409  | -    | 360  | 387  | 409   | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Lo PR | 101                         | 108  | 118  | -    | 107  | 114  | 125  | -    | 111  | 119  | 129  | -    | 117                                  | 125  | 136  | -    | 123  | 130  | 142  | -    | 127  | 135  | 147  | -    | 127   | 135  | 147  | -    | 127  | 135  | 147   | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | MBh   | 17.1                        | 17.7 | 19.4 | -    | 16.7 | 17.3 | 19.0 | -    | 16.3 | 16.9 | 18.5 | -    | 15.9                                 | 16.5 | 18.1 | -    | 15.1 | 15.7 | 17.2 | -    | 14.0 | 14.5 | 15.9 | -    | 14.0  | 14.5 | 15.9 | -    | 14.0 | 14.5 | 15.9  | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | S/T   | 0.71                        | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.43 | -    | 0.75 | 0.63 | 0.44 | -    | 0.78                                 | 0.65 | 0.45 | -    | 0.81 | 0.67 | 0.47 | -    | 0.81 | 0.68 | 0.47 | -    | 0.81  | 0.68 | 0.47 | -    | 0.81 | 0.68 | 0.47  | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | ΔT    | 17                          | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 18                                   | 15   | 12   | -    | 17   | 15   | 11   | -    | 16   | 14   | 11   | -    | 16    | 14   | 11   | -    | 16   | 14   | 11    | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | kW    | 1.21                        | 1.23 | 1.26 | -    | 1.28 | 1.31 | 1.34 | -    | 1.35 | 1.38 | 1.41 | -    | 1.41                                 | 1.44 | 1.48 | -    | 1.46 | 1.49 | 1.53 | -    | 1.51 | 1.54 | 1.58 | -    | 1.51  | 1.54 | 1.58 | -    | 1.51 | 1.54 | 1.58  | -    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Amps  | 4.4   | 4.5                         | 4.6  | -    | 4.7  | 4.8  | 4.9  | -    | 5.1  | 5.2  | 5.3  | -    | 5.4  | 5.5                                  | 5.7  | -    | 5.7  | 5.8  | 6.0  | -    | 6.0  | 6.2  | 6.4  | -    | 6.0  | 6.2   | 6.4  | -    | 6.0  | 6.2  | 6.4  | -     |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Hi PR | 205   | 221                         | 233  | -    | 230  | 248  | 262  | -    | 262  | 282  | 298  | -    | 298  | 321                                  | 339  | -    | 336  | 361  | 381  | -    | 371  | 399  | 421  | -    | 371  | 399   | 421  | -    | 371  | 399  | 421  | -     |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Lo PR | 105   | 111                         | 122  | -    | 111  | 118  | 128  | -    | 115  | 122  | 133  | -    | 121  | 128                                  | 140  | -    | 126  | 135  | 147  | -    | 131  | 139  | 152  | -    | 131  | 139   | 152  | -    | 131  | 139  | 152  | -     |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 75    | MBh   | 16.1                        | 16.5 | 17.9 | 19.2 | 15.7 | 16.2 | 17.5 | 18.8 | 15.3 | 15.8 | 17.1 | 18.3 | 15.0                                 | 15.4 | 16.7 | 17.9 | 14.2 | 14.6 | 15.8 | 17.2 | 13.2 | 13.5 | 14.7 | 15.7 | 13.2  | 13.5 | 14.7 | 15.7 | 13.2 | 13.5 | 14.7  | 15.7 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | S/T   | 0.78                        | 0.69 | 0.53 | 0.34 | 0.81 | 0.72 | 0.55 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85                                 | 0.76 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.89  | 0.80 | 0.60 | 0.39 | 0.89 | 0.80 | 0.60  | 0.39 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | ΔT    | 22                          | 20   | 16   | 11   | 22   | 20   | 17   | 12   | 22   | 20   | 17   | 12   | 22                                   | 21   | 17   | 12   | 22   | 20   | 17   | 11   | 21   | 19   | 16   | 11   | 21    | 19   | 16   | 11   | 21   | 19   | 16    | 11   |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | kW    | 1.19                        | 1.21 | 1.24 | 1.28 | 1.27 | 1.29 | 1.32 | 1.36 | 1.33 | 1.36 | 1.39 | 1.43 | 1.39                                 | 1.42 | 1.46 | 1.50 | 1.44 | 1.47 | 1.51 | 1.55 | 1.48 | 1.51 | 1.56 | 1.60 | 1.48  | 1.51 | 1.56 | 1.60 | 1.48 | 1.51 | 1.56  | 1.60 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Amps  | 4.3                         | 4.4  | 4.5  | 4.7  | 4.6  | 4.7  | 4.9  | 5.0  | 5.0  | 5.1  | 5.2  | 5.4  | 5.3                                  | 5.4  | 5.6  | 5.8  | 5.6  | 5.7  | 5.9  | 6.1  | 5.9  | 6.1  | 6.3  | 6.5  | 5.9   | 6.1  | 6.3  | 6.5  | 5.9  | 6.1  | 6.3   | 6.5  |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Hi PR | 201                         | 216  | 229  | 238  | 226  | 243  | 257  | 268  | 257  | 276  | 292  | 304  | 292                                  | 315  | 332  | 347  | 329  | 354  | 374  | 390  | 363  | 391  | 413  | 431  | 363   | 391  | 413  | 431  | 363  | 391  | 413   | 431  |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Lo PR | 103                         | 109  | 119  | 127  | 108  | 115  | 126  | 134  | 113  | 120  | 131  | 139  | 118                                  | 126  | 137  | 146  | 124  | 132  | 144  | 153  | 128  | 136  | 149  | 159  | 128   | 136  | 149  | 159  | 128  | 136  | 149   | 159  |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | MBh   | 17.4                        | 17.9 | 19.4 | 20.8 | 17.0 | 17.5 | 19.0 | 20.3 | 16.6 | 17.1 | 18.5 | 19.9 | 16.2                                 | 16.7 | 18.1 | 19.4 | 15.4 | 15.8 | 17.2 | 18.4 | 14.3 | 14.7 | 15.9 | 17.1 | 14.3  | 14.7 | 15.9 | 17.1 | 14.3 | 14.7 | 15.9  | 17.1 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | S/T   | 0.81                        | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88                                 | 0.79 | 0.60 | 0.38 | 0.92 | 0.82 | 0.62 | 0.40 | 0.93 | 0.83 | 0.63 | 0.40 | 0.93  | 0.83 | 0.63 | 0.40 | 0.93 | 0.83 | 0.63  | 0.40 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | ΔT    | 20                          | 18   | 15   | 10   | 20   | 19   | 15   | 10   | 20   | 19   | 15   | 10   | 20                                   | 19   | 15   | 10   | 20   | 18   | 15   | 10   | 19   | 17   | 14   | 10   | 19    | 17   | 14   | 10   | 19   | 17   | 14    | 10   |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | kW    | 1.21                        | 1.24 | 1.27 | 1.30 | 1.29 | 1.32 | 1.35 | 1.39 | 1.36 | 1.39 | 1.42 | 1.46 | 1.42                                 | 1.45 | 1.49 | 1.53 | 1.47 | 1.50 | 1.54 | 1.59 | 1.52 | 1.55 | 1.59 | 1.64 | 1.52  | 1.55 | 1.59 | 1.64 | 1.52 | 1.55 | 1.59  | 1.64 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Amps  | 4.4   | 4.5                         | 4.6  | 4.8  | 4.7  | 4.8  | 5.0  | 5.2  | 5.1  | 5.2  | 5.4  | 5.6  | 5.4  | 5.6                                  | 5.7  | 5.9  | 5.8  | 5.9  | 6.1  | 6.3  | 6.1  | 6.2  | 6.4  | 6.7  | 6.1  | 6.2   | 6.4  | 6.7  | 6.1  | 6.2  | 6.4  | 6.7   |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Hi PR | 207   | 223                         | 236  | 246  | 233  | 250  | 264  | 276  | 265  | 285  | 301  | 314  | 301  | 324                                  | 343  | 357  | 339  | 365  | 385  | 402  | 375  | 403  | 426  | 444  | 375  | 403   | 426  | 444  | 375  | 403  | 426  | 444   |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Lo PR | 106   | 112                         | 123  | 131  | 112  | 119  | 130  | 138  | 116  | 123  | 135  | 144  | 122  | 130                                  | 142  | 151  | 128  | 136  | 148  | 158  | 132  | 141  | 153  | 163  | 132  | 141   | 153  | 163  | 132  | 141  | 153  | 163   |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| 70    | MBh   | 17.4                        | 17.9 | 19.4 | 20.8 | 17.0 | 17.5 | 19.0 | 20.3 | 16.6 | 17.1 | 18.5 | 19.9 | 16.2                                 | 16.7 | 18.1 | 19.4 | 15.4 | 15.8 | 17.2 | 18.4 | 14.3 | 14.7 | 15.9 | 17.1 | 14.3  | 14.7 | 15.9 | 17.1 | 14.3 | 14.7 | 15.9  | 17.1 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | S/T   | 0.81                        | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88                                 | 0.79 | 0.60 | 0.38 | 0.92 | 0.82 | 0.62 | 0.40 | 0.93 | 0.83 | 0.63 | 0.40 | 0.93  | 0.83 | 0.63 | 0.40 | 0.93 | 0.83 | 0.63  | 0.40 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | ΔT    | 19                          | 18   | 14   | 10   | 19   | 18   | 15   | 10   | 19   | 18   | 15   | 10   | 20                                   | 19   | 15   | 10   | 19   | 18   | 15   | 10   | 18   | 15   | 10   | 9    | 18    | 17   | 14   | 9    | 18   | 17   | 14    | 9    |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | kW    | 1.21                        | 1.24 | 1.27 | 1.30 | 1.29 | 1.32 | 1.35 | 1.39 | 1.36 | 1.39 | 1.42 | 1.46 | 1.42                                 | 1.45 | 1.49 | 1.53 | 1.47 | 1.50 | 1.54 | 1.59 | 1.52 | 1.55 | 1.59 | 1.64 | 1.52  | 1.55 | 1.59 | 1.64 | 1.52 | 1.55 | 1.59  | 1.64 |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Amps  | 4.4                         | 4.5  | 4.6  | 4.8  | 4.7  | 4.8  | 5.0  | 5.2  | 5.1  | 5.2  | 5.4  | 5.6  | 5.4                                  | 5.6  | 5.7  | 5.9  | 5.8  | 5.9  | 6.1  | 6.3  | 6.1  | 6.2  | 6.4  | 6.7  | 6.1   | 6.2  | 6.4  | 6.7  | 6.1  | 6.2  | 6.4   | 6.7  |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Hi PR | 207                         | 223  | 236  | 246  | 233  | 250  | 264  | 276  | 265  | 285  | 301  | 314  | 301                                  | 324  | 343  | 357  | 339  | 365  | 385  | 402  | 375  | 403  | 426  | 444  | 375   | 403  | 426  | 444  | 375  | 403  | 426   | 444  |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | Lo PR | 106                         | 112  | 123  | 131  | 112  | 119  | 130  | 138  | 116  | 123  | 135  | 144  | 122                                  | 130  | 142  | 151  | 128  | 136  | 148  | 158  | 132  | 141  | 153  | 163  | 132   | 141  | 153  | 163  | 132  | 141  | 153   | 163  |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       | 75    | MBh                         | 17.4 | 17.9 | 19.4 | 20.8 | 17.0 | 17.5 | 19.0 | 20.3 | 16.6 | 17.1 | 18.5 | 19.9                                 | 16.2 | 16.7 | 18.1 | 19.4 | 15.4 | 15.8 | 17.2 | 18.4 | 14.3 | 14.7 | 15.9 | 17.1  | 14.3 | 14.7 | 15.9 | 17.1 | 14.3 | 14.7  | 15.9 | 17.1 |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       |       | S/T                         | 0.81 | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37                                 | 0.88 | 0.79 | 0.60 | 0.38 | 0.92 | 0.82 | 0.62 | 0.40 | 0.93 | 0.83 | 0.63 | 0.40  | 0.93 | 0.83 | 0.63 | 0.40 | 0.93 | 0.83  | 0.63 | 0.40 |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       |       | ΔT                          | 19   | 18   | 14   | 10   | 19   | 18   | 15   | 10   | 19   | 18   | 15   | 10                                   | 20   | 19   | 15   | 10   | 19   | 18   | 15   | 10   | 18   | 15   | 10   | 9     | 18   | 17   | 14   | 9    | 18   | 17    | 14   | 9    |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
|       |       | kW                          | 1.21 | 1.24 | 1.27 | 1.30 | 1.29 | 1.32 | 1.35 | 1.39 | 1.36 | 1.39 | 1.42 | 1.46                                 | 1.42 | 1.45 | 1.49 | 1.53 | 1.47 | 1.50 | 1.54 | 1.59 | 1.52 | 1.55 | 1.59 | 1.64  | 1.52 | 1.55 | 1.59 | 1.64 | 1.52 | 1.55  | 1.59 | 1.64 |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |
| Amps  |       | 4.4                         | 4.5  | 4.6  | 4.8  | 4.7  | 4.8  | 5.0  | 5.2  |      |      |      |      |                                      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |       |      |      |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |

EXPANDED COOLING DATA — GSX160181F\* / CA\*F3636\*6D\*+TXV (CONT.)

| IDB |       | AIRFLOW |      | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |       |       |       |       |       |       |       | 115°F |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |  |
|-----|-------|---------|------|-----------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|
|     |       |         |      | 65°F                        |      |      |      |      |       | 75°F  |       |       |       |       |       | 85°F  |       |       |       |       |       | 95°F  |       |       |       |       |       | 105°F |       |       |       |     |  |
|     |       |         |      | 59                          | 63   | 67   | 71   | 75   | 79    | 83    | 87    | 91    | 95    | 99    | 103   | 107   | 111   | 115   | 119   | 123   | 127   | 131   | 135   | 139   | 143   | 147   | 151   | 155   | 159   | 163   | 167   | 171 |  |
| 525 | MBh   | 16.4    | 16.7 | 17.9                        | 19.1 | 20.7 | 22.1 | 23.5 | 24.9  | 26.3  | 27.7  | 29.1  | 30.5  | 31.9  | 33.3  | 34.7  | 36.1  | 37.5  | 38.9  | 40.3  | 41.7  | 43.1  | 44.5  | 45.9  | 47.3  | 48.7  | 50.1  | 51.5  | 52.9  | 54.3  | 55.7  |     |  |
|     | S/T   | 0.85    | 0.80 | 0.65                        | 0.49 | 0.33 | 0.17 | 0.01 | -0.15 | -0.31 | -0.47 | -0.63 | -0.79 | -0.95 | -1.11 | -1.27 | -1.43 | -1.59 | -1.75 | -1.91 | -2.07 | -2.23 | -2.39 | -2.55 | -2.71 | -2.87 | -3.03 | -3.19 | -3.35 | -3.51 | -3.67 |     |  |
|     | ΔT    | 24      | 23   | 20                          | 16   | 12   | 8    | 4    | 0     | -4    | -8    | -12   | -16   | -20   | -24   | -28   | -32   | -36   | -40   | -44   | -48   | -52   | -56   | -60   | -64   | -68   | -72   | -76   | -80   | -84   |       |     |  |
|     | kW    | 1.20    | 1.22 | 1.25                        | 1.28 | 1.31 | 1.33 | 1.35 | 1.37  | 1.39  | 1.41  | 1.43  | 1.45  | 1.47  | 1.49  | 1.51  | 1.53  | 1.55  | 1.57  | 1.59  | 1.61  | 1.63  | 1.65  | 1.67  | 1.69  | 1.71  | 1.73  | 1.75  | 1.77  | 1.79  |       |     |  |
|     | Amps  | 4.3     | 4.4  | 4.6                         | 4.7  | 4.8  | 4.9  | 5.0  | 5.1   | 5.2   | 5.3   | 5.4   | 5.5   | 5.6   | 5.7   | 5.8   | 5.9   | 6.0   | 6.1   | 6.2   | 6.3   | 6.4   | 6.5   | 6.6   | 6.7   | 6.8   | 6.9   | 7.0   | 7.1   | 7.2   |       |     |  |
|     | Lo PR | 204     | 210  | 220                         | 228  | 235  | 241  | 248  | 253   | 259   | 265   | 271   | 277   | 283   | 289   | 295   | 301   | 307   | 313   | 319   | 325   | 331   | 337   | 343   | 349   | 355   | 361   | 367   | 373   | 379   | 385   |     |  |
| 650 | MBh   | 17.7    | 18.1 | 19.4                        | 20.7 | 22.1 | 23.5 | 24.9 | 26.3  | 27.7  | 29.1  | 30.5  | 31.9  | 33.3  | 34.7  | 36.1  | 37.5  | 38.9  | 40.3  | 41.7  | 43.1  | 44.5  | 45.9  | 47.3  | 48.7  | 50.1  | 51.5  | 52.9  | 54.3  | 55.7  |       |     |  |
|     | S/T   | 0.88    | 0.83 | 0.67                        | 0.50 | 0.33 | 0.17 | 0.01 | -0.15 | -0.31 | -0.47 | -0.63 | -0.79 | -0.95 | -1.11 | -1.27 | -1.43 | -1.59 | -1.75 | -1.91 | -2.07 | -2.23 | -2.39 | -2.55 | -2.71 | -2.87 | -3.03 | -3.19 | -3.35 | -3.51 | -3.67 |     |  |
|     | ΔT    | 22      | 21   | 18                          | 15   | 12   | 8    | 4    | 0     | -4    | -8    | -12   | -16   | -20   | -24   | -28   | -32   | -36   | -40   | -44   | -48   | -52   | -56   | -60   | -64   | -68   | -72   | -76   | -80   | -84   |       |     |  |
|     | kW    | 1.22    | 1.24 | 1.28                        | 1.31 | 1.33 | 1.35 | 1.37 | 1.39  | 1.41  | 1.43  | 1.45  | 1.47  | 1.49  | 1.51  | 1.53  | 1.55  | 1.57  | 1.59  | 1.61  | 1.63  | 1.65  | 1.67  | 1.69  | 1.71  | 1.73  | 1.75  | 1.77  | 1.79  | 1.81  |       |     |  |
|     | Amps  | 4.4     | 4.5  | 4.7                         | 4.8  | 4.9  | 5.0  | 5.1  | 5.2   | 5.3   | 5.4   | 5.5   | 5.6   | 5.7   | 5.8   | 5.9   | 6.0   | 6.1   | 6.2   | 6.3   | 6.4   | 6.5   | 6.6   | 6.7   | 6.8   | 6.9   | 7.0   | 7.1   | 7.2   | 7.3   |       |     |  |
|     | Lo PR | 209     | 225  | 238                         | 248  | 253  | 259  | 265  | 271   | 277   | 283   | 289   | 295   | 301   | 307   | 313   | 319   | 325   | 331   | 337   | 343   | 349   | 355   | 361   | 367   | 373   | 379   | 385   | 391   | 397   | 403   |     |  |
| 675 | MBh   | 17.7    | 18.1 | 19.4                        | 20.7 | 22.1 | 23.5 | 24.9 | 26.3  | 27.7  | 29.1  | 30.5  | 31.9  | 33.3  | 34.7  | 36.1  | 37.5  | 38.9  | 40.3  | 41.7  | 43.1  | 44.5  | 45.9  | 47.3  | 48.7  | 50.1  | 51.5  | 52.9  | 54.3  | 55.7  |       |     |  |
|     | S/T   | 0.88    | 0.83 | 0.67                        | 0.50 | 0.33 | 0.17 | 0.01 | -0.15 | -0.31 | -0.47 | -0.63 | -0.79 | -0.95 | -1.11 | -1.27 | -1.43 | -1.59 | -1.75 | -1.91 | -2.07 | -2.23 | -2.39 | -2.55 | -2.71 | -2.87 | -3.03 | -3.19 | -3.35 | -3.51 | -3.67 |     |  |
|     | ΔT    | 21      | 20   | 18                          | 14   | 11   | 7    | 3    | -1    | -5    | -9    | -13   | -17   | -21   | -25   | -29   | -33   | -37   | -41   | -45   | -49   | -53   | -57   | -61   | -65   | -69   | -73   | -77   | -81   | -85   |       |     |  |
|     | kW    | 1.22    | 1.24 | 1.28                        | 1.31 | 1.33 | 1.35 | 1.37 | 1.39  | 1.41  | 1.43  | 1.45  | 1.47  | 1.49  | 1.51  | 1.53  | 1.55  | 1.57  | 1.59  | 1.61  | 1.63  | 1.65  | 1.67  | 1.69  | 1.71  | 1.73  | 1.75  | 1.77  | 1.79  | 1.81  |       |     |  |
|     | Amps  | 4.4     | 4.5  | 4.7                         | 4.8  | 4.9  | 5.0  | 5.1  | 5.2   | 5.3   | 5.4   | 5.5   | 5.6   | 5.7   | 5.8   | 5.9   | 6.0   | 6.1   | 6.2   | 6.3   | 6.4   | 6.5   | 6.6   | 6.7   | 6.8   | 6.9   | 7.0   | 7.1   | 7.2   | 7.3   |       |     |  |
|     | Lo PR | 209     | 225  | 238                         | 248  | 253  | 259  | 265  | 271   | 277   | 283   | 289   | 295   | 301   | 307   | 313   | 319   | 325   | 331   | 337   | 343   | 349   | 355   | 361   | 367   | 373   | 379   | 385   | 391   | 397   | 403   |     |  |
| 525 | MBh   | 16.6    | 17.0 | 17.8                        | 19.0 | 20.5 | 22.1 | 23.5 | 24.9  | 26.3  | 27.7  | 29.1  | 30.5  | 31.9  | 33.3  | 34.7  | 36.1  | 37.5  | 38.9  | 40.3  | 41.7  | 43.1  | 44.5  | 45.9  | 47.3  | 48.7  | 50.1  | 51.5  | 52.9  | 54.3  | 55.7  |     |  |
|     | S/T   | 0.89    | 0.86 | 0.78                        | 0.63 | 0.47 | 0.31 | 0.15 | -0.01 | -0.17 | -0.33 | -0.49 | -0.65 | -0.81 | -0.97 | -1.13 | -1.29 | -1.45 | -1.61 | -1.77 | -1.93 | -2.09 | -2.25 | -2.41 | -2.57 | -2.73 | -2.89 | -3.05 | -3.21 | -3.37 | -3.53 |     |  |
|     | ΔT    | 26      | 26   | 24                          | 21   | 18   | 14   | 10   | 6     | 2     | -2    | -6    | -10   | -14   | -18   | -22   | -26   | -30   | -34   | -38   | -42   | -46   | -50   | -54   | -58   | -62   | -66   | -70   | -74   | -78   |       |     |  |
|     | kW    | 1.21    | 1.23 | 1.26                        | 1.29 | 1.32 | 1.34 | 1.36 | 1.38  | 1.40  | 1.42  | 1.44  | 1.46  | 1.48  | 1.50  | 1.52  | 1.54  | 1.56  | 1.58  | 1.60  | 1.62  | 1.64  | 1.66  | 1.68  | 1.70  | 1.72  | 1.74  | 1.76  | 1.78  | 1.80  |       |     |  |
|     | Amps  | 4.4     | 4.5  | 4.6                         | 4.7  | 4.8  | 4.9  | 5.0  | 5.1   | 5.2   | 5.3   | 5.4   | 5.5   | 5.6   | 5.7   | 5.8   | 5.9   | 6.0   | 6.1   | 6.2   | 6.3   | 6.4   | 6.5   | 6.6   | 6.7   | 6.8   | 6.9   | 7.0   | 7.1   | 7.2   |       |     |  |
|     | Lo PR | 205     | 221  | 233                         | 243  | 250  | 257  | 263  | 269   | 275   | 281   | 287   | 293   | 299   | 305   | 311   | 317   | 323   | 329   | 335   | 341   | 347   | 353   | 359   | 365   | 371   | 377   | 383   | 389   | 395   | 401   |     |  |
| 650 | MBh   | 18.0    | 18.4 | 19.3                        | 20.5 | 22.1 | 23.5 | 24.9 | 26.3  | 27.7  | 29.1  | 30.5  | 31.9  | 33.3  | 34.7  | 36.1  | 37.5  | 38.9  | 40.3  | 41.7  | 43.1  | 44.5  | 45.9  | 47.3  | 48.7  | 50.1  | 51.5  | 52.9  | 54.3  | 55.7  |       |     |  |
|     | S/T   | 0.93    | 0.89 | 0.81                        | 0.65 | 0.49 | 0.33 | 0.17 | 0.01  | -0.15 | -0.31 | -0.47 | -0.63 | -0.79 | -0.95 | -1.11 | -1.27 | -1.43 | -1.59 | -1.75 | -1.91 | -2.07 | -2.23 | -2.39 | -2.55 | -2.71 | -2.87 | -3.03 | -3.19 | -3.35 | -3.51 |     |  |
|     | ΔT    | 24      | 23   | 22                          | 19   | 16   | 12   | 8    | 4     | 0     | -4    | -8    | -12   | -16   | -20   | -24   | -28   | -32   | -36   | -40   | -44   | -48   | -52   | -56   | -60   | -64   | -68   | -72   | -76   | -80   |       |     |  |
|     | kW    | 1.23    | 1.25 | 1.29                        | 1.32 | 1.34 | 1.36 | 1.38 | 1.40  | 1.42  | 1.44  | 1.46  | 1.48  | 1.50  | 1.52  | 1.54  | 1.56  | 1.58  | 1.60  | 1.62  | 1.64  | 1.66  | 1.68  | 1.70  | 1.72  | 1.74  | 1.76  | 1.78  | 1.80  | 1.82  |       |     |  |
|     | Amps  | 4.5     | 4.6  | 4.7                         | 4.9  | 5.0  | 5.1  | 5.2  | 5.3   | 5.4   | 5.5   | 5.6   | 5.7   | 5.8   | 5.9   | 6.0   | 6.1   | 6.2   | 6.3   | 6.4   | 6.5   | 6.6   | 6.7   | 6.8   | 6.9   | 7.0   | 7.1   | 7.2   | 7.3   | 7.4   |       |     |  |
|     | Lo PR | 212     | 228  | 240                         | 251  | 257  | 263  | 269  | 275   | 281   | 287   | 293   | 299   | 305   | 311   | 317   | 323   | 329   | 335   | 341   | 347   | 353   | 359   | 365   | 371   | 377   | 383   | 389   | 395   | 401   |       |     |  |
| 675 | MBh   | 18.0    | 18.4 | 19.3                        | 20.5 | 22.1 | 23.5 | 24.9 | 26.3  | 27.7  | 29.1  | 30.5  | 31.9  | 33.3  | 34.7  | 36.1  | 37.5  | 38.9  | 40.3  | 41.7  | 43.1  | 44.5  | 45.9  | 47.3  | 48.7  | 50.1  | 51.5  | 52.9  | 54.3  | 55.7  |       |     |  |
|     | S/T   | 0.93    | 0.89 | 0.81                        | 0.65 | 0.49 | 0.33 | 0.17 | 0.01  | -0.15 | -0.31 | -0.47 | -0.63 | -0.79 | -0.95 | -1.11 | -1.27 | -1.43 | -1.59 | -1.75 | -1.91 | -2.07 | -2.23 | -2.39 | -2.55 | -2.71 | -2.87 | -3.03 | -3.19 | -3.35 | -3.51 |     |  |
|     | ΔT    | 23      | 22   | 21                          | 18   | 15   | 11   | 7    | 3     | -1    | -5    | -9    | -13   | -17   | -21   | -25   | -29   | -33   | -37   | -41   | -45   | -49   | -53   | -57   | -61   | -65   | -69   | -73   | -77   | -81   |       |     |  |
|     | kW    | 1.23    | 1.25 | 1.29                        | 1.32 | 1.34 | 1.36 | 1.38 | 1.40  | 1.42  | 1.44  | 1.46  | 1.48  | 1.50  | 1.52  | 1.54  | 1.56  | 1.58  | 1.60  | 1.62  | 1.64  | 1.66  | 1.68  | 1.70  | 1.72  | 1.74  | 1.76  | 1.78  | 1.80  | 1.82  |       |     |  |
|     | Amps  | 4.5     | 4.6  | 4.7                         | 4.9  | 5.0  | 5.1  | 5.2  | 5.3   | 5.4   | 5.5   | 5.6   | 5.7   | 5.8   | 5.9   | 6.0   | 6.1   | 6.2   | 6.3   | 6.4   | 6.5   | 6.6   | 6.7   | 6.8   | 6.9   | 7.0   | 7.1   | 7.2   | 7.3   | 7.4   |       |     |  |
|     | Lo PR | 212     | 228  | 240                         | 251  | 257  | 263  | 269  | 275   | 281   | 287   | 293   | 299   | 305   | 311   | 317   | 323   | 329   | 335   | 341   | 347   | 353   | 359   | 365   | 371   | 377   | 383   | 389   | 395   | 401   |       |     |  |

DB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

Shaded area reflects AHRl conditions

Amps = outdoor unit amps (comp.-fan)  
kW = Total system power

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects AHRI conditions

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction service valves.

High and low pressures are measured at the

EXPANDED COOLING DATA — GSX160241F\* / CA\*F3636\*6D\* + TXV (CONT.)

| IDB     |       | OUTDOOR AMBIENT TEMPERATURE          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |
|---------|-------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|
|         |       | 65°F                                 |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |
|         |       | ENTERING INDOOR WET BULB TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |
| AIRFLOW | 59    | 63                                   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63    | 67   | 71   | 59   | 63    | 67   | 71   |      |
| 700     | MBh   | 22.9                                 | 23.4 | 25.0 | 26.7 | 22.4 | 22.8 | 24.4 | 26.1 | 21.8 | 22.3 | 23.8 | 25.5 | 21.3 | 21.8 | 23.2 | 24.8 | 20.2  | 20.7 | 22.1 | 23.6 | 18.7  | 19.1 | 20.5 | 21.9 |
|         | S/T   | 0.86                                 | 0.81 | 0.66 | 0.49 | 0.90 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 0.98  | 0.92 | 0.75 | 0.56 | 0.99  | 0.93 | 0.76 | 0.57 |
|         | ΔT    | 26                                   | 25   | 22   | 17   | 26   | 25   | 22   | 18   | 26   | 25   | 22   | 18   | 27   | 25   | 22   | 18   | 26    | 25   | 22   | 17   | 24    | 23   | 20   | 16   |
|         | kW    | 1.56                                 | 1.59 | 1.63 | 1.68 | 1.67 | 1.70 | 1.75 | 1.80 | 1.76 | 1.80 | 1.85 | 1.91 | 1.85 | 1.88 | 1.94 | 2.00 | 1.92  | 1.96 | 2.02 | 2.08 | 1.98  | 2.02 | 2.08 | 2.15 |
|         | Amps  | 5.8                                  | 5.9  | 6.1  | 6.3  | 6.2  | 6.4  | 6.6  | 6.8  | 6.8  | 6.9  | 7.1  | 7.4  | 7.2  | 7.4  | 7.6  | 7.9  | 7.7   | 7.9  | 8.1  | 8.4  | 8.1   | 8.3  | 8.6  | 8.9  |
| 750     | Hi PR | 209                                  | 225  | 238  | 248  | 235  | 253  | 267  | 279  | 267  | 288  | 304  | 317  | 304  | 328  | 346  | 361  | 343   | 369  | 389  | 406  | 378   | 407  | 430  | 449  |
|         | Lo PR | 105                                  | 112  | 122  | 130  | 111  | 118  | 129  | 137  | 115  | 123  | 134  | 143  | 121  | 129  | 141  | 150  | 127   | 135  | 147  | 157  | 131   | 140  | 152  | 162  |
|         | MBh   | 23.2                                 | 23.7 | 25.4 | 27.1 | 22.7 | 23.2 | 24.8 | 26.5 | 22.2 | 22.6 | 24.2 | 25.9 | 21.6 | 22.1 | 23.6 | 25.2 | 20.5  | 21.0 | 22.4 | 24.0 | 19.0  | 19.4 | 20.8 | 22.2 |
|         | S/T   | 0.90                                 | 0.84 | 0.68 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89 | 0.73 | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 1.00  | 0.96 | 0.78 | 0.58 | 1.00  | 0.96 | 0.78 | 0.59 |
|         | ΔT    | 26                                   | 24   | 21   | 17   | 26   | 25   | 22   | 17   | 26   | 25   | 22   | 17   | 26   | 25   | 22   | 17   | 25    | 25   | 21   | 17   | 23    | 23   | 20   | 16   |
| 900     | kW    | 1.58                                 | 1.61 | 1.65 | 1.70 | 1.69 | 1.72 | 1.77 | 1.83 | 1.79 | 1.82 | 1.88 | 1.93 | 1.87 | 1.91 | 1.97 | 2.03 | 1.94  | 1.98 | 2.04 | 2.11 | 2.01  | 2.05 | 2.11 | 2.18 |
|         | Amps  | 5.9                                  | 6.0  | 6.2  | 6.4  | 6.3  | 6.5  | 6.7  | 6.9  | 6.9  | 7.0  | 7.3  | 7.5  | 7.3  | 7.5  | 7.7  | 8.0  | 7.8   | 8.0  | 8.2  | 8.5  | 8.2   | 8.4  | 8.7  | 9.0  |
|         | Hi PR | 213                                  | 229  | 242  | 253  | 239  | 257  | 272  | 283  | 272  | 293  | 309  | 322  | 310  | 333  | 352  | 367  | 348   | 375  | 396  | 413  | 385   | 414  | 438  | 456  |
|         | Lo PR | 107                                  | 114  | 124  | 132  | 113  | 120  | 131  | 140  | 117  | 125  | 136  | 145  | 123  | 131  | 143  | 152  | 129   | 137  | 150  | 160  | 133   | 142  | 155  | 165  |
|         | MBh   | 24.1                                 | 24.6 | 26.3 | 28.1 | 23.5 | 24.0 | 25.6 | 27.4 | 22.9 | 23.4 | 25.0 | 26.8 | 22.4 | 22.9 | 24.4 | 26.1 | 21.3  | 21.7 | 23.2 | 24.8 | 19.7  | 20.1 | 21.5 | 23.0 |
| 700     | S/T   | 0.95                                 | 0.89 | 0.73 | 0.54 | 1.00 | 0.93 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 0.90 | 0.80 | 0.60 | 1.00  | 1.00 | 0.83 | 0.62 | 1.00  | 1.00 | 0.83 | 0.62 |
|         | ΔT    | 23                                   | 22   | 19   | 16   | 24   | 23   | 20   | 16   | 23   | 23   | 20   | 16   | 23   | 23   | 20   | 16   | 22    | 22   | 20   | 16   | 20    | 21   | 18   | 15   |
|         | kW    | 1.60                                 | 1.63 | 1.68 | 1.73 | 1.71 | 1.75 | 1.80 | 1.85 | 1.81 | 1.85 | 1.90 | 1.96 | 1.90 | 1.94 | 2.00 | 2.06 | 1.97  | 2.01 | 2.08 | 2.14 | 2.04  | 2.08 | 2.14 | 2.21 |
|         | Amps  | 6.0                                  | 6.1  | 6.3  | 6.5  | 6.4  | 6.6  | 6.8  | 7.1  | 7.0  | 7.2  | 7.4  | 7.7  | 7.5  | 7.6  | 7.9  | 8.2  | 7.9   | 8.1  | 8.4  | 8.7  | 8.4   | 8.6  | 8.9  | 9.2  |
|         | Hi PR | 217                                  | 234  | 247  | 258  | 244  | 262  | 277  | 289  | 277  | 299  | 315  | 329  | 316  | 340  | 359  | 374  | 355   | 383  | 404  | 421  | 393   | 423  | 446  | 465  |
| 750     | Lo PR | 109                                  | 116  | 126  | 135  | 115  | 122  | 134  | 142  | 120  | 127  | 139  | 148  | 126  | 134  | 146  | 155  | 132   | 140  | 153  | 163  | 136   | 145  | 158  | 168  |
|         | MBh   | 23.3                                 | 23.7 | 24.9 | 26.5 | 22.7 | 23.2 | 24.3 | 25.9 | 22.2 | 22.6 | 23.7 | 25.3 | 21.7 | 22.1 | 23.1 | 24.7 | 20.6  | 21.0 | 22.0 | 23.4 | 19.1  | 19.4 | 20.4 | 21.7 |
|         | S/T   | 0.91                                 | 0.87 | 0.79 | 0.64 | 0.94 | 0.91 | 0.82 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 0.99 | 0.96 | 0.87 | 0.70 | 1.00  | 0.99 | 0.90 | 0.73 | 1.00  | 1.00 | 0.91 | 0.73 |
|         | ΔT    | 28                                   | 27   | 26   | 22   | 28   | 28   | 26   | 23   | 28   | 28   | 26   | 23   | 28   | 28   | 26   | 23   | 27    | 27   | 26   | 22   | 25    | 26   | 24   | 21   |
|         | kW    | 1.57                                 | 1.60 | 1.65 | 1.69 | 1.68 | 1.71 | 1.76 | 1.82 | 1.78 | 1.81 | 1.87 | 1.92 | 1.86 | 1.90 | 1.96 | 2.02 | 1.93  | 1.97 | 2.03 | 2.10 | 2.00  | 2.04 | 2.10 | 2.17 |
| 900     | Amps  | 5.8                                  | 6.0  | 6.2  | 6.4  | 6.3  | 6.4  | 6.6  | 6.9  | 6.8  | 7.0  | 7.2  | 7.5  | 7.3  | 7.5  | 7.7  | 8.0  | 7.7   | 7.9  | 8.2  | 8.5  | 8.2   | 8.4  | 8.7  | 9.0  |
|         | Hi PR | 212                                  | 228  | 240  | 251  | 237  | 255  | 270  | 281  | 270  | 291  | 307  | 320  | 308  | 331  | 349  | 365  | 346   | 372  | 393  | 410  | 382   | 411  | 434  | 453  |
|         | Lo PR | 106                                  | 113  | 123  | 131  | 112  | 119  | 130  | 139  | 116  | 124  | 135  | 144  | 122  | 130  | 142  | 151  | 128   | 136  | 149  | 158  | 133   | 141  | 154  | 164  |
|         | MBh   | 23.6                                 | 24.1 | 25.2 | 26.9 | 23.1 | 23.5 | 24.7 | 26.3 | 22.5 | 23.0 | 24.1 | 25.7 | 22.0 | 22.4 | 23.5 | 25.1 | 20.9  | 21.3 | 22.3 | 23.8 | 19.4  | 19.7 | 20.7 | 22.0 |
|         | S/T   | 0.94                                 | 0.91 | 0.82 | 0.66 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00  | 1.00 | 0.93 | 0.76 | 1.00  | 1.00 | 0.94 | 0.76 |
| 700     | ΔT    | 27                                   | 27   | 25   | 22   | 28   | 27   | 26   | 22   | 28   | 27   | 26   | 22   | 27   | 27   | 26   | 22   | 26    | 26   | 25   | 22   | 24    | 24   | 24   | 21   |
|         | kW    | 1.59                                 | 1.62 | 1.67 | 1.72 | 1.70 | 1.73 | 1.79 | 1.84 | 1.80 | 1.83 | 1.89 | 1.95 | 1.89 | 1.92 | 1.98 | 2.04 | 1.96  | 2.00 | 2.06 | 2.12 | 2.02  | 2.06 | 2.13 | 2.20 |
|         | Amps  | 5.9                                  | 6.1  | 6.3  | 6.5  | 6.4  | 6.5  | 6.7  | 7.0  | 6.9  | 7.1  | 7.3  | 7.6  | 7.4  | 7.6  | 7.8  | 8.1  | 7.9   | 8.0  | 8.3  | 8.6  | 8.3   | 8.5  | 8.8  | 9.1  |
|         | Hi PR | 215                                  | 232  | 245  | 255  | 242  | 260  | 274  | 286  | 275  | 296  | 312  | 326  | 313  | 337  | 356  | 371  | 352   | 379  | 400  | 417  | 389   | 418  | 442  | 461  |
|         | Lo PR | 108                                  | 115  | 125  | 133  | 114  | 121  | 132  | 141  | 118  | 126  | 137  | 146  | 124  | 132  | 144  | 154  | 130   | 139  | 151  | 161  | 135   | 143  | 157  | 167  |
| 750     | MBh   | 24.5                                 | 24.9 | 26.1 | 27.9 | 23.9 | 24.4 | 25.5 | 27.2 | 23.3 | 23.8 | 24.9 | 26.6 | 22.8 | 23.2 | 24.3 | 25.9 | 21.6  | 22.0 | 23.1 | 24.6 | 20.0  | 20.4 | 21.4 | 22.8 |
|         | S/T   | 1.00                                 | 0.96 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00  | 1.00 | 0.99 | 0.80 | 1.00  | 1.00 | 1.00 | 0.81 |
|         | ΔT    | 25                                   | 25   | 23   | 20   | 24   | 25   | 23   | 20   | 24   | 24   | 24   | 20   | 23   | 24   | 24   | 20   | 22    | 23   | 23   | 20   | 20    | 21   | 22   | 19   |
|         | kW    | 1.61                                 | 1.64 | 1.69 | 1.74 | 1.73 | 1.76 | 1.81 | 1.87 | 1.83 | 1.86 | 1.92 | 1.98 | 1.91 | 1.95 | 2.01 | 2.08 | 1.99  | 2.03 | 2.09 | 2.16 | 2.05  | 2.10 | 2.16 | 2.23 |
|         | Amps  | 6.0                                  | 6.2  | 6.4  | 6.6  | 6.5  | 6.7  | 6.9  | 7.1  | 7.1  | 7.2  | 7.5  | 7.7  | 7.5  | 7.7  | 8.0  | 8.3  | 8.0   | 8.2  | 8.5  | 8.8  | 8.5   | 8.7  | 9.0  | 9.3  |
| 900     | Hi PR | 220                                  | 236  | 249  | 260  | 246  | 265  | 280  | 292  | 280  | 302  | 318  | 332  | 319  | 343  | 363  | 378  | 359   | 386  | 408  | 426  | 397   | 427  | 451  | 470  |
|         | Lo PR | 110                                  | 117  | 128  | 136  | 116  | 124  | 135  | 144  | 121  | 128  | 140  | 149  | 127  | 135  | 147  | 157  | 133   | 141  | 154  | 164  | 137   | 146  | 160  | 170  |

DB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.  
Shaded area reflects AHRI conditions  
Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Amps = outdoor unit amps (comp.-flan)  
kW = Total system power

Shaded area reflects AHRI conditions

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

# EXPANDED COOLING DATA — GSX160301F\* / CA\*F3743\*6D\*+TXV

|       |                                                                               | OUTDOOR AMBIENT TEMPERATURE          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |
|-------|-------------------------------------------------------------------------------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|------|
|       |                                                                               | 65°F                                 |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |      |
|       |                                                                               | ENTERING INDOOR WET BULB TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |
| IDB   | AIRFLOW                                                                       | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   |      |
| 70    | MBh                                                                           | 25.5                                 | 26.4 | 28.9 | -    | 24.9 | 25.8 | 28.2 | -    | 24.3 | 25.2 | 27.6 | -    | 23.7 | 24.6 | 26.9 | -    | 22.5  | 23.3 | 25.6 | -    | 20.8  | 21.6 | 23.7 | -    |      |
|       | S/T                                                                           | 0.70                                 | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.75 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.45 | -    | 0.80  | 0.67 | 0.46 | -    | 0.81  | 0.67 | 0.47 | -    |      |
|       | ΔT                                                                            | 19                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 13   | -    | 19   | 17   | 13   | -    | 19    | 16   | 12   | -    | 18    | 15   | 12   | -    |      |
|       | kW                                                                            | 1.87                                 | 1.90 | 1.96 | -    | 2.00 | 2.04 | 2.10 | -    | 2.11 | 2.15 | 2.22 | -    | 2.21 | 2.26 | 2.32 | -    | 2.30  | 2.34 | 2.41 | -    | 2.37  | 2.42 | 2.49 | -    |      |
|       | Amps                                                                          | 6.8                                  | 6.9  | 7.1  | -    | 7.3  | 7.5  | 7.7  | -    | 7.9  | 8.1  | 8.4  | -    | 8.5  | 8.7  | 9.0  | -    | 9.0   | 9.2  | 9.5  | -    | 9.5   | 9.8  | 10.1 | -    |      |
|       | Hi PR                                                                         | 214                                  | 230  | 243  | -    | 240  | 258  | 272  | -    | 272  | 293  | 310  | -    | 310  | 334  | 353  | -    | 349   | 376  | 397  | -    | 386   | 415  | 438  | -    |      |
|       | Lo PR                                                                         | 104                                  | 110  | 120  | -    | 109  | 116  | 127  | -    | 114  | 121  | 132  | -    | 119  | 127  | 139  | -    | 125   | 133  | 145  | -    | 130   | 138  | 150  | -    |      |
|       | MBh                                                                           | 27.6                                 | 28.6 | 31.3 | -    | 26.9 | 27.9 | 30.6 | -    | 26.3 | 27.3 | 29.9 | -    | 25.7 | 26.6 | 29.1 | -    | 24.4  | 25.3 | 27.7 | -    | 22.6  | 23.4 | 25.6 | -    |      |
|       | S/T                                                                           | 0.73                                 | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.44 | -    | 0.77 | 0.65 | 0.45 | -    | 0.80 | 0.67 | 0.46 | -    | 0.83  | 0.69 | 0.48 | -    | 0.84  | 0.70 | 0.48 | -    |      |
|       | ΔT                                                                            | 18                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19    | 16   | 12   | -    | 17    | 15   | 11   | -    |      |
|       | kW                                                                            | 1.91                                 | 1.95 | 2.00 | -    | 2.04 | 2.08 | 2.14 | -    | 2.16 | 2.20 | 2.27 | -    | 2.26 | 2.31 | 2.38 | -    | 2.35  | 2.40 | 2.47 | -    | 2.43  | 2.48 | 2.55 | -    |      |
| Amps  | 6.9                                                                           | 7.1                                  | 7.3  | -    | 7.5  | 7.7  | 7.9  | -    | 8.2  | 8.3  | 8.6  | -    | 8.7  | 9.0  | 9.2  | -    | 9.3  | 9.5   | 9.8  | -    | 9.8  | 10.1  | 10.4 | -    |      |      |
| Hi PR | 220                                                                           | 237                                  | 250  | -    | 247  | 266  | 281  | -    | 281  | 302  | 319  | -    | 320  | 344  | 364  | -    | 360  | 387   | 409  | -    | 398  | 428   | 452  | -    |      |      |
| Lo PR | 107                                                                           | 114                                  | 124  | -    | 113  | 120  | 131  | -    | 117  | 125  | 136  | -    | 123  | 131  | 143  | -    | 129  | 137   | 150  | -    | 134  | 142   | 155  | -    |      |      |
| 1125  | MBh                                                                           | 28.4                                 | 29.5 | 32.3 | -    | 27.8 | 28.8 | 31.5 | -    | 27.1 | 28.1 | 30.8 | -    | 26.4 | 27.4 | 30.0 | -    | 25.1  | 26.0 | 28.5 | -    | 23.3  | 24.1 | 26.4 | -    |      |
|       | S/T                                                                           | 0.76                                 | 0.64 | 0.44 | -    | 0.79 | 0.66 | 0.46 | -    | 0.81 | 0.68 | 0.47 | -    | 0.84 | 0.70 | 0.48 | -    | 0.87  | 0.73 | 0.50 | -    | 0.88  | 0.73 | 0.51 | -    |      |
|       | ΔT                                                                            | 18                                   | 15   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18    | 15   | 12   | -    | 17    | 14   | 11   | -    |      |
|       | kW                                                                            | 1.92                                 | 1.96 | 2.02 | -    | 2.06 | 2.10 | 2.16 | -    | 2.18 | 2.22 | 2.29 | -    | 2.28 | 2.33 | 2.40 | -    | 2.37  | 2.42 | 2.49 | -    | 2.45  | 2.50 | 2.57 | -    |      |
|       | Amps                                                                          | 7.0                                  | 7.2  | 7.4  | -    | 7.6  | 7.8  | 8.0  | -    | 8.2  | 8.4  | 8.7  | -    | 8.8  | 9.0  | 9.3  | -    | 9.4   | 9.6  | 9.9  | -    | 9.9   | 10.1 | 10.5 | -    |      |
|       | Hi PR                                                                         | 222                                  | 239  | 253  | -    | 249  | 268  | 283  | -    | 284  | 305  | 322  | -    | 323  | 348  | 367  | -    | 364   | 391  | 413  | -    | 402   | 432  | 456  | -    |      |
|       | Lo PR                                                                         | 108                                  | 115  | 125  | -    | 114  | 121  | 132  | -    | 118  | 126  | 138  | -    | 124  | 132  | 145  | -    | 130   | 139  | 151  | -    | 135   | 143  | 157  | -    |      |
|       | 875                                                                           | MBh                                  | 25.9 | 26.7 | 28.9 | 31.0 | 25.3 | 26.0 | 28.2 | 30.3 | 24.7 | 25.4 | 27.5 | 29.5 | 24.1 | 24.8 | 26.8 | 28.8  | 22.9 | 23.6 | 25.5 | 27.4  | 21.2 | 21.8 | 23.6 | 25.4 |
|       |                                                                               | S/T                                  | 0.80 | 0.71 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.57 | 0.37 | 0.88 | 0.78 | 0.59 | 0.38  | 0.91 | 0.81 | 0.62 | 0.40  | 0.92 | 0.82 | 0.62 | 0.40 |
|       |                                                                               | ΔT                                   | 22   | 20   | 16   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 16   | 11    | 22   | 20   | 16   | 11    | 20   | 19   | 15   | 11   |
|       |                                                                               | kW                                   | 1.88 | 1.92 | 1.97 | 2.03 | 2.01 | 2.05 | 2.11 | 2.17 | 2.13 | 2.17 | 2.23 | 2.30 | 2.23 | 2.27 | 2.34 | 2.41  | 2.31 | 2.36 | 2.43 | 2.51  | 2.39 | 2.44 | 2.51 | 2.59 |
| Amps  |                                                                               | 6.8                                  | 7.0  | 7.2  | 7.5  | 7.4  | 7.5  | 7.8  | 8.1  | 8.0  | 8.2  | 8.5  | 8.8  | 8.5  | 8.8  | 9.0  | 9.4  | 9.1   | 9.3  | 9.6  | 10.0 | 9.6   | 9.9  | 10.2 | 10.6 |      |
| Hi PR |                                                                               | 216                                  | 232  | 245  | 256  | 242  | 260  | 275  | 287  | 275  | 296  | 313  | 326  | 314  | 337  | 356  | 372  | 353   | 380  | 401  | 418  | 390   | 419  | 443  | 462  |      |
| Lo PR |                                                                               | 105                                  | 111  | 122  | 129  | 111  | 118  | 128  | 137  | 115  | 122  | 133  | 142  | 121  | 128  | 140  | 149  | 127   | 135  | 147  | 156  | 131   | 139  | 152  | 162  |      |
| MBh   |                                                                               | 28.1                                 | 28.9 | 31.3 | 33.6 | 27.4 | 28.2 | 30.5 | 32.8 | 26.8 | 27.5 | 29.8 | 32.0 | 26.1 | 26.9 | 29.1 | 31.2 | 24.8  | 25.5 | 27.6 | 29.7 | 23.0  | 23.6 | 25.6 | 27.5 |      |
| S/T   |                                                                               | 0.83                                 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.91 | 0.81 | 0.61 | 0.40 | 0.94  | 0.84 | 0.64 | 0.41 | 0.95  | 0.85 | 0.64 | 0.41 |      |
| ΔT    |                                                                               | 21                                   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21    | 20   | 16   | 11   | 20    | 18   | 15   | 10   |      |
| kW    |                                                                               | 1.92                                 | 1.96 | 2.02 | 2.08 | 2.06 | 2.10 | 2.16 | 2.22 | 2.18 | 2.22 | 2.29 | 2.36 | 2.28 | 2.33 | 2.40 | 2.47 | 2.37  | 2.42 | 2.49 | 2.57 | 2.45  | 2.50 | 2.57 | 2.66 |      |
| Amps  | 7.0                                                                           | 7.2                                  | 7.4  | 7.7  | 7.6  | 7.8  | 8.0  | 8.3  | 8.2  | 8.4  | 8.7  | 9.0  | 8.8  | 9.0  | 9.3  | 9.7  | 9.4  | 9.6   | 9.9  | 10.3 | 9.9  | 10.2  | 10.5 | 10.9 |      |      |
| Hi PR | 222                                                                           | 239                                  | 253  | 264  | 250  | 269  | 284  | 296  | 284  | 305  | 322  | 336  | 323  | 348  | 367  | 383  | 364  | 391   | 413  | 431  | 402  | 432   | 457  | 476  |      |      |
| Lo PR | 108                                                                           | 115                                  | 125  | 133  | 114  | 121  | 132  | 141  | 118  | 126  | 138  | 147  | 124  | 132  | 145  | 154  | 130  | 139   | 151  | 161  | 135  | 144   | 157  | 167  |      |      |
| 75    | MBh                                                                           | 28.9                                 | 29.8 | 32.2 | 34.6 | 28.2 | 29.1 | 31.5 | 33.8 | 27.6 | 28.4 | 30.7 | 33.0 | 26.9 | 27.7 | 30.0 | 32.2 | 25.5  | 26.3 | 28.5 | 30.5 | 23.7  | 24.4 | 26.4 | 28.3 |      |
|       | S/T                                                                           | 0.87                                 | 0.78 | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.99  | 0.88 | 0.67 | 0.43 | 1.00  | 0.89 | 0.67 | 0.43 |      |
|       | ΔT                                                                            | 20                                   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21    | 19   | 16   | 11   | 19    | 18   | 15   | 10   |      |
|       | kW                                                                            | 1.94                                 | 1.97 | 2.03 | 2.09 | 2.07 | 2.11 | 2.18 | 2.24 | 2.19 | 2.24 | 2.30 | 2.37 | 2.30 | 2.35 | 2.42 | 2.49 | 2.39  | 2.44 | 2.51 | 2.59 | 2.47  | 2.52 | 2.60 | 2.68 |      |
|       | Amps                                                                          | 7.1                                  | 7.2  | 7.5  | 7.8  | 7.6  | 7.8  | 8.1  | 8.4  | 8.3  | 8.5  | 8.8  | 9.1  | 8.9  | 9.1  | 9.4  | 9.7  | 9.4   | 9.7  | 10.0 | 10.4 | 10.0  | 10.2 | 10.6 | 11.0 |      |
|       | Hi PR                                                                         | 225                                  | 242  | 255  | 266  | 252  | 271  | 286  | 299  | 287  | 308  | 326  | 340  | 326  | 351  | 371  | 387  | 367   | 395  | 417  | 435  | 406   | 437  | 461  | 481  |      |
|       | Lo PR                                                                         | 109                                  | 116  | 127  | 135  | 115  | 122  | 134  | 142  | 120  | 127  | 139  | 148  | 126  | 134  | 146  | 155  | 132   | 140  | 153  | 163  | 136   | 145  | 158  | 169  |      |
|       | Shaded area reflects ACCA (TVA) conditions                                    |                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |
|       | DB: Entering Indoor Dry Bulb Temperature                                      |                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |
|       | High and low pressures are measured at the liquid and suction service valves. |                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |
|       | Amps = outdoor unit amps (comp.+fan)<br>kW = Total system power               |                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

EXPANDED COOLING DATA — GSX160301F\* / CA\*F3743\*6D\* +TXV (CONT.)

|     |         | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |
|-----|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|
|     |         | 65°F                        |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |
| IDB | AIRFLOW | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   |
| 80  | MBh     | 26.4                        | 26.9 | 28.8 | 30.8 | 25.7 | 26.3 | 28.1 | 30.0 | 25.1 | 25.7 | 27.4 | 29.3 | 24.5 | 25.1 | 26.8 | 28.6 | 23.3  | 23.8 | 25.4 | 27.2 | 21.6  | 22.0 | 23.6 | 25.2 |
|     | S/T     | 0.88                        | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 1.00  | 0.93 | 0.76 | 0.57 | 1.00  | 0.94 | 0.77 | 0.57 |
|     | ΔT      | 24                          | 23   | 20   | 16   | 25   | 24   | 20   | 16   | 25   | 24   | 20   | 16   | 25   | 24   | 21   | 16   | 24    | 23   | 20   | 16   | 23    | 22   | 19   | 15   |
|     | kW      | 1.90                        | 1.93 | 1.99 | 2.04 | 2.03 | 2.07 | 2.13 | 2.19 | 2.14 | 2.19 | 2.25 | 2.32 | 2.25 | 2.29 | 2.36 | 2.43 | 2.33  | 2.38 | 2.45 | 2.53 | 2.41  | 2.46 | 2.53 | 2.61 |
|     | Amps    | 6.9                         | 7.0  | 7.3  | 7.5  | 7.4  | 7.6  | 7.9  | 8.2  | 8.1  | 8.3  | 8.5  | 8.9  | 8.6  | 8.8  | 9.1  | 9.5  | 9.2   | 9.4  | 9.7  | 10.1 | 9.7   | 10.0 | 10.3 | 10.7 |
| 80  | Hi PR   | 218                         | 234  | 248  | 258  | 244  | 263  | 278  | 290  | 278  | 299  | 316  | 330  | 317  | 341  | 360  | 375  | 356   | 383  | 405  | 422  | 394   | 424  | 447  | 467  |
|     | Lo PR   | 106                         | 112  | 123  | 131  | 112  | 119  | 130  | 138  | 116  | 123  | 135  | 144  | 122  | 130  | 142  | 151  | 128   | 136  | 148  | 158  | 132   | 141  | 154  | 163  |
|     | MBh     | 28.6                        | 29.2 | 31.2 | 33.3 | 27.9 | 28.5 | 30.5 | 32.6 | 27.2 | 27.8 | 29.7 | 31.8 | 26.6 | 27.1 | 29.0 | 31.0 | 25.2  | 25.8 | 27.6 | 29.5 | 23.4  | 23.9 | 25.5 | 27.3 |
|     | S/T     | 0.91                        | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.96 | 0.90 | 0.74 | 0.55 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00  | 0.97 | 0.79 | 0.59 | 1.00  | 0.98 | 0.80 | 0.59 |
|     | ΔT      | 24                          | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 23    | 23   | 20   | 16   | 21    | 21   | 19   | 15   |
| 80  | kW      | 1.94                        | 1.97 | 2.03 | 2.09 | 2.07 | 2.11 | 2.18 | 2.24 | 2.19 | 2.24 | 2.30 | 2.37 | 2.30 | 2.35 | 2.42 | 2.49 | 2.39  | 2.44 | 2.51 | 2.59 | 2.47  | 2.52 | 2.60 | 2.68 |
|     | Amps    | 7.1                         | 7.2  | 7.5  | 7.8  | 7.6  | 7.8  | 8.1  | 8.4  | 8.3  | 8.5  | 8.8  | 9.1  | 8.9  | 9.1  | 9.4  | 9.7  | 9.4   | 9.7  | 10.0 | 10.4 | 10.0  | 10.2 | 10.6 | 11.0 |
|     | Hi PR   | 225                         | 242  | 255  | 266  | 252  | 271  | 286  | 299  | 287  | 308  | 326  | 340  | 326  | 351  | 371  | 387  | 367   | 395  | 417  | 435  | 406   | 437  | 461  | 481  |
|     | Lo PR   | 109                         | 116  | 127  | 135  | 115  | 123  | 134  | 142  | 120  | 127  | 139  | 148  | 126  | 134  | 146  | 155  | 132   | 140  | 153  | 163  | 136   | 145  | 158  | 169  |
|     | MBh     | 29.4                        | 30.1 | 32.1 | 34.3 | 28.7 | 29.4 | 31.4 | 33.5 | 28.0 | 28.7 | 30.6 | 32.7 | 27.4 | 28.0 | 29.9 | 31.9 | 26.0  | 26.6 | 28.4 | 30.3 | 24.1  | 24.6 | 26.3 | 28.1 |
| 85  | S/T     | 0.95                        | 0.89 | 0.73 | 0.54 | 1.00 | 0.93 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 0.90 | 0.80 | 0.60 | 1.00  | 1.00 | 0.83 | 0.62 | 1.00  | 1.00 | 0.83 | 0.62 |
|     | ΔT      | 23                          | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 22   | 23   | 20   | 16   | 21    | 22   | 19   | 15   | 20    | 20   | 18   | 14   |
|     | kW      | 1.95                        | 1.99 | 2.05 | 2.11 | 2.09 | 2.13 | 2.19 | 2.26 | 2.21 | 2.25 | 2.32 | 2.39 | 2.32 | 2.36 | 2.44 | 2.51 | 2.41  | 2.46 | 2.53 | 2.61 | 2.48  | 2.54 | 2.62 | 2.70 |
|     | Amps    | 7.1                         | 7.3  | 7.5  | 7.8  | 7.7  | 7.9  | 8.2  | 8.5  | 8.4  | 8.6  | 8.9  | 9.2  | 9.0  | 9.2  | 9.5  | 9.8  | 9.5   | 9.8  | 10.1 | 10.5 | 10.1  | 10.3 | 10.7 | 11.1 |
|     | Hi PR   | 227                         | 244  | 258  | 269  | 255  | 274  | 289  | 302  | 290  | 312  | 329  | 343  | 330  | 355  | 375  | 391  | 371   | 399  | 422  | 440  | 410   | 441  | 466  | 486  |
|     | Lo PR   | 110                         | 117  | 128  | 136  | 116  | 124  | 135  | 144  | 121  | 129  | 140  | 150  | 127  | 135  | 147  | 157  | 133   | 142  | 155  | 165  | 138   | 146  | 160  | 170  |
| 85  | MBh     | 26.8                        | 27.3 | 28.6 | 30.5 | 26.2 | 26.7 | 28.0 | 29.8 | 25.6 | 26.1 | 27.3 | 29.1 | 24.9 | 25.4 | 26.6 | 28.4 | 23.7  | 24.2 | 25.3 | 27.0 | 22.0  | 22.4 | 23.4 | 25.0 |
|     | S/T     | 0.92                        | 0.89 | 0.80 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00  | 1.00 | 0.91 | 0.74 | 1.00  | 1.00 | 0.92 | 0.74 |
|     | ΔT      | 26                          | 25   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 26   | 25   | 21   | 25    | 25   | 24   | 21   | 23    | 24   | 23   | 20   |
|     | kW      | 1.91                        | 1.95 | 2.00 | 2.06 | 2.04 | 2.08 | 2.14 | 2.21 | 2.16 | 2.20 | 2.27 | 2.34 | 2.26 | 2.31 | 2.38 | 2.45 | 2.35  | 2.40 | 2.47 | 2.55 | 2.43  | 2.48 | 2.55 | 2.63 |
|     | Amps    | 6.9                         | 7.1  | 7.3  | 7.6  | 7.5  | 7.7  | 7.9  | 8.2  | 8.1  | 8.3  | 8.6  | 8.9  | 8.7  | 8.9  | 9.2  | 9.6  | 9.3   | 9.5  | 9.8  | 10.2 | 9.8   | 10.1 | 10.4 | 10.8 |
| 85  | Hi PR   | 220                         | 237  | 250  | 261  | 247  | 266  | 281  | 293  | 281  | 302  | 319  | 333  | 320  | 344  | 363  | 379  | 360   | 387  | 409  | 426  | 398   | 428  | 452  | 471  |
|     | Lo PR   | 107                         | 114  | 124  | 132  | 113  | 120  | 131  | 140  | 117  | 125  | 136  | 145  | 123  | 131  | 143  | 152  | 129   | 137  | 150  | 160  | 133   | 142  | 155  | 165  |
|     | MBh     | 29.1                        | 29.6 | 31.0 | 33.1 | 28.4 | 28.9 | 30.3 | 32.3 | 27.7 | 28.2 | 29.6 | 31.6 | 27.0 | 27.6 | 28.9 | 30.8 | 25.7  | 26.2 | 27.4 | 29.2 | 23.8  | 24.2 | 25.4 | 27.1 |
|     | S/T     | 0.95                        | 0.92 | 0.83 | 0.67 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.98 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00  | 1.00 | 0.94 | 0.77 | 1.00  | 1.00 | 0.95 | 0.77 |
|     | ΔT      | 25                          | 25   | 24   | 20   | 26   | 25   | 24   | 21   | 25   | 25   | 24   | 21   | 25   | 25   | 24   | 21   | 24    | 24   | 24   | 21   | 22    | 22   | 22   | 19   |
| 85  | kW      | 1.95                        | 1.99 | 2.05 | 2.11 | 2.09 | 2.13 | 2.19 | 2.26 | 2.21 | 2.25 | 2.32 | 2.39 | 2.32 | 2.36 | 2.44 | 2.51 | 2.41  | 2.46 | 2.53 | 2.61 | 2.48  | 2.54 | 2.62 | 2.70 |
|     | Amps    | 7.1                         | 7.3  | 7.5  | 7.8  | 7.7  | 7.9  | 8.2  | 8.5  | 8.4  | 8.6  | 8.9  | 9.2  | 9.0  | 9.2  | 9.5  | 9.8  | 9.5   | 9.8  | 10.1 | 10.5 | 10.1  | 10.3 | 10.7 | 11.1 |
|     | Hi PR   | 227                         | 244  | 258  | 269  | 255  | 274  | 289  | 302  | 290  | 312  | 329  | 343  | 330  | 355  | 375  | 391  | 371   | 399  | 422  | 440  | 410   | 441  | 466  | 486  |
|     | Lo PR   | 110                         | 117  | 128  | 136  | 116  | 124  | 135  | 144  | 121  | 129  | 140  | 150  | 127  | 135  | 147  | 157  | 133   | 142  | 155  | 165  | 138   | 146  | 160  | 170  |
|     | MBh     | 29.9                        | 30.5 | 31.9 | 34.1 | 29.2 | 29.8 | 31.2 | 33.3 | 28.5 | 29.1 | 30.5 | 32.5 | 27.8 | 28.4 | 29.7 | 31.7 | 26.4  | 27.0 | 28.2 | 30.1 | 24.5  | 25.0 | 26.2 | 27.9 |
| 85  | S/T     | 1.00                        | 0.96 | 0.87 | 0.70 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00  | 1.00 | 0.99 | 0.80 | 1.00  | 1.00 | 1.00 | 0.81 |
|     | ΔT      | 24                          | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 23   | 24   | 23   | 20   | 23   | 24   | 23   | 20   | 22    | 22   | 23   | 20   | 20    | 20   | 21   | 18   |
|     | kW      | 1.97                        | 2.00 | 2.06 | 2.12 | 2.10 | 2.15 | 2.21 | 2.28 | 2.23 | 2.27 | 2.34 | 2.41 | 2.33 | 2.38 | 2.45 | 2.53 | 2.43  | 2.48 | 2.55 | 2.63 | 2.50  | 2.56 | 2.64 | 2.72 |
|     | Amps    | 7.2                         | 7.4  | 7.6  | 7.9  | 7.8  | 8.0  | 8.2  | 8.5  | 8.5  | 8.7  | 8.9  | 9.3  | 9.0  | 9.3  | 9.6  | 9.9  | 9.6   | 9.9  | 10.2 | 10.6 | 10.2  | 10.4 | 10.8 | 11.2 |
|     | Hi PR   | 229                         | 247  | 260  | 272  | 257  | 277  | 292  | 305  | 292  | 315  | 332  | 347  | 333  | 358  | 378  | 395  | 375   | 403  | 426  | 444  | 414   | 445  | 470  | 491  |
|     | Lo PR   | 111                         | 118  | 129  | 138  | 117  | 125  | 136  | 145  | 122  | 130  | 142  | 151  | 128  | 136  | 149  | 159  | 134   | 143  | 156  | 166  | 139   | 148  | 161  | 172  |

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects AHRI conditions

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

EXPANDED COOLING DATA — GSX160361F\* / CA\*F4860\*6D\* + TXV

|                                                               |    | OUTDOOR AMBIENT TEMPERATURE                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |                                      |  |
|---------------------------------------------------------------|----|--------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|--------------------------------------|--|
|                                                               |    | 65°F                                       |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |                                      |  |
|                                                               |    | ENTERING INDOOR WET BULB TEMPERATURE       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |                                      |  |
|                                                               |    | 59                                         | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   |                                      |  |
| W                                                             | Bh | 30.6                                       | 31.7 | 34.7 | -    | 29.8 | 30.9 | 33.9 | -    | 29.1 | 30.2 | 33.1 | -    | 28.4 | 29.5 | 32.3 | -    | 27.0  | 28.0 | 30.7 | -    | 25.0  | 25.9 | 28.4 | -    |                                      |  |
| S/T                                                           |    | 0.71                                       | 0.59 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.76 | 0.63 | 0.44 | -    | 0.78 | 0.65 | 0.45 | -    | 0.81  | 0.68 | 0.47 | -    | 0.82  | 0.68 | 0.47 | -    |                                      |  |
| ΔT                                                            |    | 19                                         | 16   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19    | 17   | 13   | -    | 18    | 15   | 12   | -    |                                      |  |
| W                                                             | h  | 2.23                                       | 2.27 | 2.34 | -    | 2.39 | 2.44 | 2.51 | -    | 2.53 | 2.58 | 2.66 | -    | 2.65 | 2.70 | 2.79 | -    | 2.75  | 2.81 | 2.90 | -    | 2.84  | 2.90 | 2.99 | -    |                                      |  |
| h                                                             | ps | 8.1                                        | 8.3  | 8.5  | -    | 8.7  | 8.9  | 9.2  | -    | 9.5  | 9.7  | 10.0 | -    | 10.1 | 10.4 | 10.7 | -    | 10.8  | 11.1 | 11.4 | -    | 11.5  | 11.7 | 12.1 | -    |                                      |  |
| i                                                             | PR | 219                                        | 236  | 249  | -    | 246  | 265  | 280  | -    | 280  | 301  | 318  | -    | 319  | 343  | 362  | -    | 359   | 386  | 407  | -    | 396   | 426  | 450  | -    |                                      |  |
| PR                                                            |    | 103                                        | 109  | 120  | -    | 109  | 116  | 126  | -    | 113  | 120  | 131  | -    | 119  | 126  | 138  | -    | 124   | 132  | 144  | -    | 129   | 137  | 149  | -    |                                      |  |
| h                                                             | Bh | 33.1                                       | 34.3 | 37.6 | -    | 32.3 | 33.5 | 36.7 | -    | 31.6 | 32.7 | 35.8 | -    | 30.8 | 31.9 | 35.0 | -    | 29.3  | 30.3 | 33.2 | -    | 27.1  | 28.1 | 30.8 | -    |                                      |  |
| S/T                                                           |    | 0.74                                       | 0.62 | 0.43 | -    | 0.76 | 0.64 | 0.44 | -    | 0.78 | 0.65 | 0.45 | -    | 0.81 | 0.68 | 0.47 | -    | 0.84  | 0.70 | 0.49 | -    | 0.85  | 0.71 | 0.49 | -    |                                      |  |
| ΔT                                                            |    | 19                                         | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 17   | 13   | -    | 19    | 16   | 12   | -    | 18    | 15   | 12   | -    |                                      |  |
| W                                                             | h  | 2.28                                       | 2.33 | 2.39 | -    | 2.44 | 2.49 | 2.57 | -    | 2.59 | 2.64 | 2.72 | -    | 2.71 | 2.77 | 2.85 | -    | 2.82  | 2.88 | 2.97 | -    | 2.91  | 2.97 | 3.07 | -    |                                      |  |
| h                                                             | ps | 8.3                                        | 8.5  | 8.8  | -    | 9.0  | 9.2  | 9.5  | -    | 9.8  | 10.0 | 10.3 | -    | 10.4 | 10.7 | 11.1 | -    | 11.1  | 11.4 | 11.8 | -    | 11.8  | 12.1 | 12.5 | -    |                                      |  |
| i                                                             | PR | 226                                        | 243  | 257  | -    | 254  | 273  | 288  | -    | 288  | 310  | 328  | -    | 329  | 354  | 373  | -    | 370   | 398  | 420  | -    | 408   | 440  | 464  | -    |                                      |  |
| PR                                                            |    | 106                                        | 113  | 123  | -    | 112  | 119  | 130  | -    | 116  | 124  | 135  | -    | 122  | 130  | 142  | -    | 128   | 136  | 149  | -    | 133   | 141  | 154  | -    |                                      |  |
| h                                                             | Bh | 34.1                                       | 35.3 | 38.7 | -    | 33.3 | 34.5 | 37.8 | -    | 32.5 | 33.7 | 36.9 | -    | 31.7 | 32.9 | 36.0 | -    | 30.1  | 31.2 | 34.2 | -    | 27.9  | 28.9 | 31.7 | -    |                                      |  |
| S/T                                                           |    | 0.77                                       | 0.65 | 0.45 | -    | 0.80 | 0.67 | 0.46 | -    | 0.82 | 0.69 | 0.48 | -    | 0.85 | 0.71 | 0.49 | -    | 0.88  | 0.74 | 0.51 | -    | 0.89  | 0.74 | 0.51 | -    |                                      |  |
| ΔT                                                            |    | 18                                         | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18    | 16   | 12   | -    | 17    | 15   | 11   | -    |                                      |  |
| W                                                             | h  | 2.30                                       | 2.34 | 2.41 | -    | 2.46 | 2.51 | 2.59 | -    | 2.61 | 2.66 | 2.74 | -    | 2.73 | 2.79 | 2.88 | -    | 2.84  | 2.90 | 2.99 | -    | 2.94  | 3.00 | 3.09 | -    |                                      |  |
| h                                                             | ps | 8.4                                        | 8.6  | 8.9  | -    | 9.1  | 9.3  | 9.6  | -    | 9.9  | 10.1 | 10.4 | -    | 10.5 | 10.8 | 11.2 | -    | 11.2  | 11.5 | 11.9 | -    | 11.9  | 12.2 | 12.6 | -    |                                      |  |
| i                                                             | PR | 228                                        | 246  | 259  | -    | 256  | 276  | 291  | -    | 291  | 314  | 331  | -    | 332  | 357  | 377  | -    | 373   | 402  | 424  | -    | 413   | 444  | 469  | -    |                                      |  |
| PR                                                            |    | 107                                        | 114  | 124  | -    | 113  | 120  | 131  | -    | 118  | 125  | 137  | -    | 124  | 131  | 144  | -    | 130   | 138  | 150  | -    | 134   | 143  | 156  | -    |                                      |  |
| h                                                             | Bh | 31.1                                       | 32.0 | 34.6 | 37.2 | 30.4 | 31.3 | 33.8 | 36.3 | 29.6 | 30.5 | 33.0 | 35.4 | 28.9 | 29.8 | 32.2 | 34.6 | 27.5  | 28.3 | 30.6 | 32.8 | 25.4  | 26.2 | 28.4 | 30.4 |                                      |  |
| S/T                                                           |    | 0.81                                       | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.89 | 0.79 | 0.60 | 0.39 | 0.92  | 0.82 | 0.62 | 0.40 | 0.93  | 0.83 | 0.63 | 0.40 |                                      |  |
| ΔT                                                            |    | 22                                         | 20   | 17   | 11   | 22   | 21   | 17   | 12   | 22   | 21   | 17   | 12   | 22   | 21   | 17   | 12   | 22    | 20   | 17   | 12   | 21    | 19   | 16   | 11   |                                      |  |
| W                                                             | h  | 2.25                                       | 2.29 | 2.36 | 2.43 | 2.41 | 2.45 | 2.53 | 2.60 | 2.55 | 2.60 | 2.68 | 2.76 | 2.67 | 2.73 | 2.81 | 2.90 | 2.78  | 2.83 | 2.92 | 3.01 | 2.87  | 2.93 | 3.02 | 3.11 |                                      |  |
| h                                                             | ps | 8.1                                        | 8.3  | 8.6  | 8.9  | 8.8  | 9.0  | 9.3  | 9.7  | 9.6  | 9.8  | 10.1 | 10.5 | 10.2 | 10.5 | 10.9 | 11.3 | 10.9  | 11.2 | 11.6 | 12.0 | 11.6  | 11.9 | 12.3 | 12.7 |                                      |  |
| i                                                             | PR | 222                                        | 238  | 252  | 263  | 249  | 267  | 282  | 295  | 283  | 304  | 321  | 335  | 322  | 346  | 366  | 382  | 362   | 390  | 412  | 429  | 400   | 431  | 455  | 474  |                                      |  |
| PR                                                            |    | 104                                        | 111  | 121  | 129  | 110  | 117  | 128  | 136  | 114  | 121  | 133  | 141  | 120  | 128  | 139  | 148  | 126   | 134  | 146  | 155  | 130   | 138  | 151  | 161  |                                      |  |
| h                                                             | Bh | 33.7                                       | 34.7 | 37.5 | 40.3 | 32.9 | 33.9 | 36.6 | 39.3 | 32.1 | 33.1 | 35.8 | 38.4 | 31.3 | 32.2 | 34.9 | 37.5 | 29.8  | 30.6 | 33.2 | 35.6 | 27.6  | 28.4 | 30.7 | 33.0 |                                      |  |
| S/T                                                           |    | 0.84                                       | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.95  | 0.85 | 0.65 | 0.42 | 0.96  | 0.86 | 0.65 | 0.42 |                                      |  |
| ΔT                                                            |    | 22                                         | 20   | 16   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 17   | 11   | 22    | 20   | 16   | 11   | 20    | 19   | 15   | 11   |                                      |  |
| W                                                             | h  | 2.30                                       | 2.34 | 2.41 | 2.48 | 2.46 | 2.51 | 2.59 | 2.67 | 2.61 | 2.66 | 2.74 | 2.83 | 2.73 | 2.79 | 2.88 | 2.97 | 2.84  | 2.90 | 2.99 | 3.09 | 2.94  | 3.00 | 3.09 | 3.19 |                                      |  |
| h                                                             | ps | 8.4                                        | 8.6  | 8.9  | 9.2  | 9.1  | 9.3  | 9.6  | 10.0 | 9.9  | 10.1 | 10.4 | 10.8 | 10.5 | 10.8 | 11.2 | 11.6 | 11.2  | 11.5 | 11.9 | 12.3 | 11.9  | 12.2 | 12.6 | 13.1 |                                      |  |
| i                                                             | PR | 228                                        | 246  | 260  | 271  | 256  | 276  | 291  | 304  | 291  | 314  | 331  | 345  | 332  | 357  | 377  | 393  | 373   | 402  | 424  | 443  | 413   | 444  | 469  | 489  |                                      |  |
| PR                                                            |    | 107                                        | 114  | 124  | 133  | 113  | 120  | 131  | 140  | 118  | 125  | 137  | 146  | 124  | 131  | 144  | 153  | 130   | 138  | 150  | 160  | 134   | 143  | 156  | 166  |                                      |  |
| h                                                             | Bh | 34.7                                       | 35.7 | 38.6 | 41.5 | 33.9 | 34.9 | 37.7 | 40.5 | 33.1 | 34.0 | 36.9 | 39.6 | 32.3 | 33.2 | 36.0 | 38.6 | 30.6  | 31.6 | 34.2 | 36.7 | 28.4  | 29.2 | 31.6 | 34.0 |                                      |  |
| S/T                                                           |    | 0.88                                       | 0.79 | 0.60 | 0.38 | 0.91 | 0.81 | 0.62 | 0.40 | 0.93 | 0.84 | 0.63 | 0.41 | 0.96 | 0.86 | 0.65 | 0.42 | 1.00  | 0.90 | 0.68 | 0.44 | 1.00  | 0.90 | 0.68 | 0.44 |                                      |  |
| ΔT                                                            |    | 21                                         | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 20   | 16   | 11   | 21    | 19   | 16   | 11   | 19    | 18   | 15   | 10   |                                      |  |
| W                                                             | h  | 2.32                                       | 2.36 | 2.43 | 2.50 | 2.48 | 2.53 | 2.61 | 2.69 | 2.63 | 2.68 | 2.76 | 2.85 | 2.76 | 2.81 | 2.90 | 2.99 | 2.86  | 2.93 | 3.02 | 3.11 | 2.96  | 3.02 | 3.12 | 3.22 |                                      |  |
| h                                                             | ps | 8.5                                        | 8.7  | 8.9  | 9.3  | 9.1  | 9.4  | 9.7  | 10.0 | 9.9  | 10.2 | 10.5 | 10.9 | 10.6 | 10.9 | 11.3 | 11.7 | 11.3  | 11.6 | 12.0 | 12.5 | 12.0  | 12.3 | 12.7 | 13.2 |                                      |  |
| i                                                             | PR | 231                                        | 248  | 262  | 273  | 259  | 279  | 294  | 307  | 294  | 317  | 334  | 349  | 335  | 361  | 381  | 397  | 377   | 406  | 429  | 447  | 417   | 448  | 474  | 494  |                                      |  |
| PR                                                            |    | 108                                        | 115  | 126  | 134  | 114  | 122  | 133  | 141  | 119  | 126  | 138  | 147  | 125  | 133  | 145  | 154  | 131   | 139  | 152  | 162  | 135   | 144  | 157  | 167  |                                      |  |
| Dry Bulb Temperature                                          |    | Shaded area reflects ACCA (TVA) conditions |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      | Amps = outdoor unit amps (comp.+fan) |  |
| Values are measured at the liquid and suction service valves. |    |                                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      | kW = Total system power              |  |

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects ACCA (TVA) conditions

dry Bulb Temperature  
is measured at the liquid and suction service valves.

# EXPANDED COOLING DATA — GSX160361F\* / CA\*F4860\*6D\* +TXV (CONT.)

| IDB   |      | AIRFLOW                                                         |      | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      | ENTERING INDOOR WET BULB TEMPERATURE |      |      |      |       |      |      |      |       |      |      |      |      |      |      |    |  |  |
|-------|------|-----------------------------------------------------------------|------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|-------|------|------|------|-------|------|------|------|------|------|------|----|--|--|
|       |      |                                                                 |      | 65°F                        |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F                                 |      |      |      | 105°F |      |      |      | 115°F |      |      |      |      |      |      |    |  |  |
|       |      |                                                                 |      | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59                                   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59   | 63   | 67   | 71 |  |  |
| 80    | 1050 | MBh                                                             | 31.6 | 32.3                        | 34.5 | 36.9 | 30.9 | 31.6 | 33.7 | 36.1 | 30.2 | 30.8 | 32.9 | 35.2 | 29.4 | 30.1                                 | 32.1 | 34.3 | 28.0 | 28.6  | 30.5 | 32.6 | 25.9 | 26.5  | 28.3 | 30.2 | 25.9 | 26.5 | 28.3 | 30.2 |    |  |  |
|       |      | S/T                                                             | 0.89 | 0.83                        | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.97 | 0.91                                 | 0.74 | 0.55 | 1.01 | 0.95  | 0.77 | 0.58 | 1.02 | 0.95  | 0.78 | 0.58 | 1.02 | 0.95 | 0.78 | 0.58 |    |  |  |
|       |      | ΔT                                                              | 25   | 24                          | 20   | 16   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24                                   | 21   | 17   | 25   | 24    | 21   | 16   | 23   | 22    | 19   | 15   | 23   | 22   | 19   | 15   |    |  |  |
|       |      | kW                                                              | 2.26 | 2.31                        | 2.38 | 2.45 | 2.42 | 2.47 | 2.55 | 2.62 | 2.57 | 2.62 | 2.70 | 2.78 | 2.69 | 2.75                                 | 2.83 | 2.92 | 2.80 | 2.86  | 2.94 | 3.04 | 2.89 | 2.95  | 3.04 | 3.14 | 2.89 | 2.95 | 3.04 | 3.14 |    |  |  |
|       |      | Amps                                                            | 8.2  | 8.4                         | 8.7  | 9.0  | 8.9  | 9.1  | 9.4  | 9.8  | 9.7  | 9.9  | 10.2 | 10.6 | 10.3 | 10.6                                 | 11.0 | 11.4 | 11.0 | 11.3  | 11.7 | 12.1 | 11.7 | 12.0  | 12.4 | 12.8 | 11.7 | 12.0 | 12.4 | 12.8 |    |  |  |
|       |      | Hi PR                                                           | 224  | 241                         | 254  | 265  | 251  | 270  | 285  | 298  | 286  | 307  | 324  | 338  | 325  | 350                                  | 370  | 385  | 366  | 394   | 416  | 434  | 404  | 435   | 459  | 479  | 404  | 435  | 459  | 479  |    |  |  |
|       | 1200 | Lo PR                                                           | 105  | 112                         | 122  | 130  | 111  | 118  | 129  | 137  | 115  | 123  | 134  | 143  | 121  | 129                                  | 141  | 150  | 127  | 135   | 147  | 157  | 131  | 140   | 152  | 162  | 131  | 140  | 152  | 162  |    |  |  |
|       |      | MBh                                                             | 34.3 | 35.0                        | 37.4 | 40.0 | 33.5 | 34.2 | 36.5 | 39.1 | 32.7 | 33.4 | 35.7 | 38.1 | 31.9 | 32.6                                 | 34.8 | 37.2 | 30.3 | 30.9  | 33.1 | 35.3 | 28.1 | 28.7  | 30.6 | 32.7 | 28.1 | 28.7 | 30.6 | 32.7 |    |  |  |
|       |      | S/T                                                             | 0.92 | 0.86                        | 0.70 | 0.52 | 0.95 | 0.89 | 0.73 | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95                                 | 0.77 | 0.58 | 1.00 | 0.98  | 0.80 | 0.60 | 1.00 | 0.99  | 0.81 | 0.60 | 1.00 | 0.99 | 0.81 | 0.60 |    |  |  |
|       |      | ΔT                                                              | 24   | 23                          | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 24                                   | 21   | 16   | 23   | 23    | 20   | 16   | 21   | 22    | 19   | 15   | 21   | 22   | 19   | 15   |    |  |  |
|       |      | kW                                                              | 2.32 | 2.36                        | 2.43 | 2.50 | 2.48 | 2.53 | 2.61 | 2.69 | 2.63 | 2.68 | 2.76 | 2.85 | 2.76 | 2.81                                 | 2.90 | 2.99 | 2.87 | 2.93  | 3.02 | 3.11 | 2.96 | 3.02  | 3.12 | 3.22 | 2.96 | 3.02 | 3.12 | 3.22 |    |  |  |
|       |      | Amps                                                            | 8.5  | 8.7                         | 8.9  | 9.3  | 9.1  | 9.4  | 9.7  | 10.0 | 9.9  | 10.2 | 10.5 | 10.9 | 10.6 | 10.9                                 | 11.3 | 11.7 | 11.3 | 11.6  | 12.0 | 12.5 | 12.0 | 12.3  | 12.7 | 13.2 | 12.0 | 12.3 | 12.7 | 13.2 |    |  |  |
|       | 1350 | Hi PR                                                           | 231  | 248                         | 262  | 273  | 259  | 279  | 294  | 307  | 294  | 317  | 335  | 349  | 335  | 361                                  | 381  | 397  | 377  | 406   | 429  | 447  | 417  | 448   | 474  | 494  | 417  | 448  | 474  | 494  |    |  |  |
|       |      | Lo PR                                                           | 108  | 115                         | 126  | 134  | 114  | 122  | 133  | 141  | 119  | 126  | 138  | 147  | 125  | 133                                  | 145  | 154  | 131  | 139   | 152  | 162  | 135  | 144   | 157  | 167  | 135  | 144  | 157  | 167  |    |  |  |
| MBh   |      | 35.3                                                            | 36.1 | 38.5                        | 41.2 | 34.5 | 35.2 | 37.6 | 40.2 | 33.7 | 34.4 | 36.7 | 39.3 | 32.8 | 33.5 | 35.8                                 | 38.3 | 31.2 | 31.9 | 34.1  | 36.4 | 28.9 | 29.5 | 31.5  | 33.7 | 28.9 | 29.5 | 31.5 | 33.7 |      |    |  |  |
| S/T   |      | 0.96                                                            | 0.90 | 0.74                        | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.96 | 0.78 | 0.58 | 1.00 | 1.00 | 0.81                                 | 0.60 | 1.00 | 1.00 | 0.84  | 0.63 | 1.00 | 1.00 | 0.84  | 0.63 | 1.00 | 1.00 | 0.84 | 0.63 |      |    |  |  |
| ΔT    |      | 23                                                              | 22   | 19                          | 15   | 23   | 22   | 20   | 16   | 23   | 23   | 20   | 16   | 22   | 23   | 20                                   | 16   | 21   | 22   | 19    | 16   | 20   | 20   | 18    | 15   | 20   | 20   | 18   | 15   |      |    |  |  |
| kW    |      | 2.33                                                            | 2.38 | 2.45                        | 2.52 | 2.50 | 2.55 | 2.63 | 2.71 | 2.65 | 2.70 | 2.78 | 2.87 | 2.78 | 2.84 | 2.92                                 | 3.02 | 2.89 | 2.95 | 3.04  | 3.14 | 2.98 | 3.05 | 3.14  | 3.24 | 2.98 | 3.05 | 3.14 | 3.24 |      |    |  |  |
| 85    | 1050 | Amps                                                            | 8.5  | 8.7                         | 9.0  | 9.4  | 9.2  | 9.5  | 9.8  | 10.1 | 10.0 | 10.3 | 10.6 | 11.0 | 10.7 | 11.0                                 | 11.4 | 11.8 | 11.4 | 11.7  | 12.1 | 12.6 | 12.1 | 12.4  | 12.8 | 13.3 | 12.1 | 12.4 | 12.8 | 13.3 |    |  |  |
|       |      | Hi PR                                                           | 233  | 251                         | 265  | 276  | 261  | 281  | 297  | 310  | 297  | 320  | 338  | 352  | 339  | 364                                  | 385  | 401  | 381  | 410   | 433  | 452  | 421  | 453   | 478  | 499  | 421  | 453  | 478  | 499  |    |  |  |
|       |      | Lo PR                                                           | 106  | 113                         | 123  | 131  | 112  | 119  | 130  | 139  | 116  | 124  | 135  | 144  | 122  | 130                                  | 142  | 151  | 128  | 136   | 149  | 159  | 133  | 141   | 154  | 164  | 133  | 141  | 154  | 164  |    |  |  |
|       |      | MBh                                                             | 34.9 | 35.5                        | 37.2 | 39.7 | 34.1 | 34.7 | 36.4 | 38.8 | 33.2 | 33.9 | 35.5 | 37.9 | 32.4 | 33.1                                 | 34.6 | 36.9 | 30.8 | 31.4  | 32.9 | 35.1 | 28.5 | 29.1  | 30.5 | 32.5 | 28.5 | 29.1 | 30.5 | 32.5 |    |  |  |
|       |      | S/T                                                             | 0.96 | 0.93                        | 0.84 | 0.68 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 0.99 | 0.89 | 0.72 | 1.00 | 1.00                                 | 0.92 | 0.75 | 1.00 | 1.00  | 0.96 | 0.78 | 1.00 | 1.00  | 0.96 | 0.78 | 1.00 | 1.00 | 0.96 | 0.78 |    |  |  |
|       |      | ΔT                                                              | 26   | 25                          | 24   | 21   | 26   | 26   | 24   | 21   | 25   | 26   | 24   | 21   | 25   | 25                                   | 24   | 21   | 24   | 24    | 24   | 21   | 22   | 22    | 22   | 19   | 22   | 22   | 19   | 22   |    |  |  |
|       | 1200 | kW                                                              | 2.33 | 2.38                        | 2.45 | 2.52 | 2.50 | 2.55 | 2.63 | 2.71 | 2.65 | 2.70 | 2.78 | 2.87 | 2.78 | 2.84                                 | 2.92 | 3.02 | 2.89 | 2.95  | 3.04 | 3.14 | 2.98 | 3.05  | 3.14 | 3.24 | 2.98 | 3.05 | 3.14 | 3.24 |    |  |  |
|       |      | Amps                                                            | 8.5  | 8.7                         | 9.0  | 9.4  | 9.2  | 9.5  | 9.8  | 10.1 | 10.0 | 10.3 | 10.6 | 11.0 | 10.7 | 11.0                                 | 11.4 | 11.8 | 11.4 | 11.7  | 12.1 | 12.6 | 12.1 | 12.4  | 12.8 | 13.3 | 12.1 | 12.4 | 12.8 | 13.3 |    |  |  |
|       |      | Hi PR                                                           | 233  | 251                         | 265  | 276  | 261  | 281  | 297  | 310  | 297  | 320  | 338  | 352  | 339  | 364                                  | 385  | 401  | 381  | 410   | 433  | 452  | 421  | 453   | 478  | 499  | 421  | 453  | 478  | 499  |    |  |  |
|       |      | Lo PR                                                           | 109  | 116                         | 127  | 135  | 116  | 123  | 134  | 143  | 120  | 128  | 139  | 148  | 126  | 134                                  | 146  | 156  | 132  | 141   | 153  | 163  | 137  | 145   | 159  | 169  | 137  | 145  | 159  | 169  |    |  |  |
|       |      | MBh                                                             | 35.9 | 36.6                        | 38.3 | 40.9 | 35.1 | 35.8 | 37.4 | 40.0 | 34.2 | 34.9 | 36.6 | 39.0 | 33.4 | 34.1                                 | 35.7 | 38.0 | 31.7 | 32.4  | 33.9 | 36.1 | 29.4 | 30.0  | 31.4 | 33.5 | 29.4 | 30.0 | 31.4 | 33.5 |    |  |  |
|       |      | S/T                                                             | 1.00 | 0.98                        | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00                                 | 0.97 | 0.78 | 1.00 | 1.00  | 0.96 | 0.81 | 1.00 | 1.00  | 0.96 | 0.81 | 1.00 | 1.00 | 0.96 | 0.81 |    |  |  |
|       | 1350 | ΔT                                                              | 24   | 24                          | 23   | 20   | 24   | 24   | 23   | 20   | 23   | 24   | 23   | 20   | 23   | 23                                   | 23   | 20   | 22   | 22    | 23   | 20   | 20   | 20    | 21   | 19   | 20   | 20   | 21   | 19   |    |  |  |
|       |      | kW                                                              | 2.35 | 2.40                        | 2.47 | 2.54 | 2.52 | 2.57 | 2.65 | 2.73 | 2.67 | 2.72 | 2.81 | 2.89 | 2.80 | 2.86                                 | 2.95 | 3.04 | 2.91 | 2.97  | 3.07 | 3.16 | 3.01 | 3.07  | 3.17 | 3.27 | 3.01 | 3.07 | 3.17 | 3.27 |    |  |  |
| Amps  |      | 8.6                                                             | 8.8  | 9.1                         | 9.5  | 9.3  | 9.5  | 9.9  | 10.2 | 10.1 | 10.4 | 10.7 | 11.1 | 10.8 | 11.1 | 11.5                                 | 11.9 | 11.5 | 11.8 | 12.2  | 12.7 | 12.2 | 12.5 | 13.0  | 13.5 | 12.2 | 12.5 | 13.0 | 13.5 |      |    |  |  |
| Hi PR |      | 235                                                             | 253  | 267                         | 279  | 264  | 284  | 300  | 313  | 300  | 323  | 341  | 356  | 342  | 368  | 389                                  | 405  | 385  | 414  | 437   | 456  | 425  | 457  | 483   | 504  | 425  | 457  | 483  | 504  |      |    |  |  |
| Lo PR |      | 110                                                             | 117  | 128                         | 137  | 117  | 124  | 135  | 144  | 121  | 129  | 141  | 150  | 127  | 135  | 148                                  | 158  | 133  | 142  | 155   | 165  | 138  | 147  | 160   | 171  | 138  | 147  | 160  | 171  |      |    |  |  |
|       |      | Amps = outdoor unit amps (comp.+fan)<br>kW = Total system power |      |                             |      |      |      |      |      |      |      |      |      |      |      |                                      |      |      |      |       |      |      |      |       |      |      |      |      |      |      |    |  |  |

DB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.  
Shaded area reflects AHRI conditions

## EXPANDED COOLING DATA — GSX160421F\* / CA\*F4860\*6D\*+TXV

| IDB  |       | AIRFLOW |      | OUTDOOR AMBIENT TEMPERATURE |    |      |      |      |    |      |      |      |    |      |      |      |    |      |      |       |    |      |      |       |    |    |    |
|------|-------|---------|------|-----------------------------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|-------|----|------|------|-------|----|----|----|
|      |       |         |      | 65°F                        |    |      |      | 75°F |    |      |      | 85°F |    |      |      | 95°F |    |      |      | 105°F |    |      |      | 115°F |    |    |    |
|      |       |         |      | 59                          | 63 | 67   | 71   | 59   | 63 | 67   | 71   | 59   | 63 | 67   | 71   | 59   | 63 | 67   | 71   | 59    | 63 | 67   | 71   | 59    | 63 | 67 | 71 |
| 1225 | MbH   | 36.9    | 38.2 | 41.9                        | -  | 36.0 | 37.3 | 40.9 | -  | 35.2 | 36.4 | 39.9 | -  | 34.3 | 35.6 | 39.0 | -  | 32.6 | 33.8 | 37.0  | -  | 30.2 | 31.3 | 34.3  | -  |    |    |
|      | S/T   | 0.70    | 0.59 | 0.41                        | -  | 0.73 | 0.61 | 0.42 | -  | 0.75 | 0.62 | 0.43 | -  | 0.77 | 0.64 | 0.45 | -  | 0.80 | 0.67 | 0.46  | -  | 0.81 | 0.67 | 0.47  | -  |    |    |
|      | ΔT    | 19      | 17   | 13                          | -  | 20   | 17   | 13   | -  | 20   | 17   | 13   | -  | 20   | 17   | 13   | -  | 20   | 17   | 13    | -  | 18   | 16   | 12    | -  |    |    |
|      | kW    | 2.70    | 2.76 | 2.83                        | -  | 2.89 | 2.95 | 3.03 | -  | 3.06 | 3.12 | 3.21 | -  | 3.20 | 3.27 | 3.37 | -  | 3.33 | 3.39 | 3.50  | -  | 3.43 | 3.50 | 3.61  | -  |    |    |
|      | Amps  | 9.9     | 10.1 | 10.4                        | -  | 10.7 | 10.9 | 11.3 | -  | 11.6 | 11.8 | 12.2 | -  | 12.3 | 12.6 | 13.1 | -  | 13.1 | 13.4 | 13.9  | -  | 13.9 | 14.2 | 14.7  | -  |    |    |
| 1400 | Hi PR | 220     | 237  | 250                         | -  | 247  | 265  | 280  | -  | 281  | 302  | 319  | -  | 320  | 344  | 363  | -  | 359  | 387  | 409   | -  | 397  | 427  | 451   | -  |    |    |
|      | Lo PR | 102     | 109  | 119                         | -  | 108  | 115  | 125  | -  | 112  | 119  | 130  | -  | 118  | 125  | 137  | -  | 124  | 131  | 143   | -  | 128  | 136  | 148   | -  |    |    |
|      | MbH   | 40.0    | 41.4 | 45.4                        | -  | 39.0 | 40.5 | 44.3 | -  | 38.1 | 39.5 | 43.3 | -  | 37.2 | 38.5 | 42.2 | -  | 35.3 | 36.6 | 40.1  | -  | 32.7 | 33.9 | 37.1  | -  |    |    |
|      | S/T   | 0.73    | 0.61 | 0.42                        | -  | 0.75 | 0.63 | 0.44 | -  | 0.77 | 0.65 | 0.45 | -  | 0.80 | 0.67 | 0.46 | -  | 0.83 | 0.69 | 0.48  | -  | 0.84 | 0.70 | 0.48  | -  |    |    |
|      | ΔT    | 19      | 17   | 13                          | -  | 19   | 17   | 13   | -  | 19   | 17   | 13   | -  | 19   | 17   | 13   | -  | 19   | 17   | 13    | -  | 18   | 16   | 12    | -  |    |    |
| 1575 | kW    | 2.76    | 2.82 | 2.90                        | -  | 2.96 | 3.02 | 3.10 | -  | 3.13 | 3.19 | 3.29 | -  | 3.28 | 3.34 | 3.45 | -  | 3.40 | 3.48 | 3.58  | -  | 3.51 | 3.59 | 3.70  | -  |    |    |
|      | Amps  | 10.1    | 10.4 | 10.7                        | -  | 10.9 | 11.2 | 11.6 | -  | 11.9 | 12.2 | 12.6 | -  | 12.7 | 13.0 | 13.4 | -  | 13.5 | 13.8 | 14.3  | -  | 14.3 | 14.6 | 15.1  | -  |    |    |
|      | Hi PR | 227     | 244  | 258                         | -  | 254  | 274  | 289  | -  | 289  | 311  | 329  | -  | 329  | 355  | 374  | -  | 371  | 399  | 421   | -  | 409  | 441  | 465   | -  |    |    |
|      | Lo PR | 105     | 112  | 122                         | -  | 111  | 118  | 129  | -  | 116  | 123  | 134  | -  | 122  | 129  | 141  | -  | 127  | 135  | 148   | -  | 132  | 140  | 153   | -  |    |    |
|      | MbH   | 41.2    | 42.7 | 46.7                        | -  | 40.2 | 41.7 | 45.7 | -  | 39.2 | 40.7 | 44.6 | -  | 38.3 | 39.7 | 43.5 | -  | 36.4 | 37.7 | 41.3  | -  | 33.7 | 34.9 | 38.3  | -  |    |    |
| 70   | S/T   | 0.76    | 0.64 | 0.44                        | -  | 0.79 | 0.66 | 0.46 | -  | 0.81 | 0.68 | 0.47 | -  | 0.84 | 0.70 | 0.48 | -  | 0.87 | 0.73 | 0.50  | -  | 0.88 | 0.73 | 0.51  | -  |    |    |
|      | ΔT    | 18      | 16   | 12                          | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 19   | 16   | 12   | -  | 18   | 16   | 12    | -  | 17   | 15   | 11    | -  |    |    |
|      | kW    | 2.78    | 2.84 | 2.92                        | -  | 2.98 | 3.04 | 3.13 | -  | 3.15 | 3.21 | 3.31 | -  | 3.30 | 3.37 | 3.47 | -  | 3.43 | 3.50 | 3.61  | -  | 3.54 | 3.62 | 3.73  | -  |    |    |
|      | Amps  | 10.2    | 10.5 | 10.8                        | -  | 11.0 | 11.3 | 11.7 | -  | 12.0 | 12.3 | 12.7 | -  | 12.8 | 13.1 | 13.6 | -  | 13.6 | 14.0 | 14.4  | -  | 14.4 | 14.8 | 15.3  | -  |    |    |
|      | Hi PR | 229     | 246  | 260                         | -  | 257  | 276  | 292  | -  | 292  | 314  | 332  | -  | 333  | 358  | 378  | -  | 374  | 403  | 425   | -  | 414  | 445  | 470   | -  |    |    |
| 1575 | Lo PR | 106     | 113  | 124                         | -  | 112  | 120  | 131  | -  | 117  | 124  | 136  | -  | 123  | 131  | 143  | -  | 129  | 137  | 149   | -  | 133  | 142  | 155   | -  |    |    |

|       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1225  | MBh   | 37.5 | 38.6 | 41.8 | 44.9 | 36.6 | 37.7 | 40.8 | 43.8 | 35.8 | 36.8 | 39.9 | 42.8 | 34.9 | 35.9 | 38.9 | 41.7 | 33.1 | 34.1 | 36.9 | 39.6 | 30.7 | 31.6 | 34.2 | 36.7 |
|       | S/T   | 0.80 | 0.71 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.57 | 0.37 | 0.88 | 0.78 | 0.59 | 0.38 | 0.91 | 0.81 | 0.62 | 0.40 | 0.92 | 0.82 | 0.62 | 0.40 |
|       | ΔT    | 22   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 21   | 19   | 16   | 11   |
|       | kW    | 2.72 | 2.78 | 2.86 | 2.94 | 2.91 | 2.97 | 3.06 | 3.15 | 3.08 | 3.14 | 3.23 | 3.33 | 3.23 | 3.29 | 3.39 | 3.50 | 3.35 | 3.42 | 3.53 | 3.64 | 3.46 | 3.53 | 3.64 | 3.76 |
|       | Amps  | 10.0 | 10.2 | 10.5 | 10.9 | 10.8 | 11.0 | 11.4 | 11.8 | 11.7 | 11.9 | 12.3 | 12.8 | 12.5 | 12.8 | 13.2 | 13.7 | 13.3 | 13.6 | 14.0 | 14.6 | 14.0 | 14.4 | 14.9 | 15.4 |
|       | Hi PR | 222  | 239  | 252  | 263  | 249  | 268  | 283  | 295  | 283  | 305  | 322  | 336  | 323  | 347  | 367  | 383  | 363  | 391  | 413  | 430  | 401  | 432  | 456  | 476  |
| Lo PR | 103   | 110  | 120  | 128  | 109  | 116  | 127  | 135  | 113  | 121  | 132  | 140  | 119  | 127  | 138  | 147  | 125  | 133  | 145  | 154  | 129  | 137  | 150  | 160  |      |
| 1400  | MBh   | 40.6 | 41.8 | 45.3 | 48.6 | 39.7 | 40.9 | 44.2 | 47.5 | 38.7 | 39.9 | 43.2 | 46.3 | 37.8 | 38.9 | 42.1 | 45.2 | 35.9 | 37.0 | 40.0 | 43.0 | 33.3 | 34.2 | 37.1 | 39.8 |
|       | S/T   | 0.83 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.91 | 0.81 | 0.61 | 0.40 | 0.94 | 0.84 | 0.64 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
|       | ΔT    | 22   | 20   | 17   | 12   | 22   | 21   | 17   | 12   | 22   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 22   | 20   | 17   | 12   | 21   | 19   | 16   | 11   |
|       | kW    | 2.78 | 2.84 | 2.92 | 3.01 | 2.98 | 3.04 | 3.13 | 3.22 | 3.15 | 3.21 | 3.31 | 3.41 | 3.30 | 3.37 | 3.47 | 3.58 | 3.43 | 3.50 | 3.61 | 3.72 | 3.54 | 3.62 | 3.73 | 3.85 |
|       | Amps  | 10.2 | 10.5 | 10.8 | 11.2 | 11.0 | 11.3 | 11.7 | 12.1 | 12.0 | 12.3 | 12.7 | 13.2 | 12.8 | 13.1 | 13.6 | 14.1 | 13.6 | 14.0 | 14.4 | 15.0 | 14.4 | 14.8 | 15.3 | 15.9 |
|       | Hi PR | 229  | 246  | 260  | 271  | 257  | 276  | 292  | 305  | 292  | 314  | 332  | 346  | 333  | 358  | 378  | 394  | 374  | 403  | 425  | 444  | 414  | 445  | 470  | 490  |
| Lo PR | 106   | 113  | 124  | 132  | 112  | 120  | 131  | 139  | 117  | 124  | 136  | 145  | 123  | 131  | 143  | 152  | 129  | 137  | 149  | 159  | 133  | 142  | 155  | 165  |      |
| 1575  | MBh   | 41.9 | 43.1 | 46.6 | 50.1 | 40.9 | 42.1 | 45.6 | 48.9 | 39.9 | 41.1 | 44.5 | 47.7 | 38.9 | 40.1 | 43.4 | 46.6 | 37.0 | 38.1 | 41.2 | 44.2 | 34.3 | 35.3 | 38.2 | 41.0 |
|       | S/T   | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.99 | 0.88 | 0.67 | 0.43 | 1.00 | 0.89 | 0.67 | 0.43 |
|       | ΔT    | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |
|       | kW    | 2.80 | 2.86 | 2.94 | 3.03 | 3.00 | 3.06 | 3.15 | 3.25 | 3.17 | 3.24 | 3.34 | 3.44 | 3.33 | 3.40 | 3.50 | 3.61 | 3.46 | 3.53 | 3.64 | 3.75 | 3.57 | 3.65 | 3.76 | 3.88 |
|       | Amps  | 10.3 | 10.6 | 10.9 | 11.3 | 11.1 | 11.4 | 11.8 | 12.2 | 12.1 | 12.4 | 12.8 | 13.3 | 12.9 | 13.2 | 13.7 | 14.2 | 13.8 | 14.1 | 14.6 | 15.1 | 14.6 | 14.9 | 15.4 | 16.0 |
|       | Hi PR | 231  | 249  | 263  | 274  | 259  | 279  | 295  | 308  | 295  | 318  | 335  | 350  | 336  | 362  | 382  | 398  | 378  | 407  | 430  | 448  | 418  | 450  | 475  | 495  |
| Lo PR | 107   | 114  | 125  | 133  | 114  | 121  | 132  | 140  | 118  | 126  | 137  | 146  | 124  | 132  | 144  | 153  | 130  | 138  | 151  | 161  | 134  | 143  | 156  | 166  |      |

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction service valves.

IDB: Entering Indoor Dry Bulb Temperature

# EXPANDED COOLING DATA — GSX160421F\* / CA\*F4860\*6D\*+TXV (CONT.)

| IDB     |       | OUTDOOR AMBIENT TEMPERATURE          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 115°F |      |      |      |  |  |       |  |  |  |  |  |
|---------|-------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|--|--|-------|--|--|--|--|--|
|         |       | 65°F                                 |      |      |      |      |      | 75°F |      |      |      |      |      | 85°F |      |      |      |      |      | 95°F |      |      |      |      |      |       |      |      |      |  |  | 105°F |  |  |  |  |  |
|         |       | ENTERING INDOOR WET BULB TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |  |  |       |  |  |  |  |  |
| AIRFLOW | 59    | 63                                   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63    | 67   | 71   |      |  |  |       |  |  |  |  |  |
| 1225    | MBh   | 38.2                                 | 39.0 | 41.7 | 44.5 | 37.3 | 38.1 | 40.7 | 43.5 | 36.4 | 37.2 | 39.7 | 42.5 | 35.5 | 36.3 | 38.8 | 41.4 | 33.7 | 34.5 | 36.8 | 39.4 | 31.2 | 31.9 | 34.1 | 36.5 | 1.00  | 0.93 | 0.76 | 0.57 |  |  |       |  |  |  |  |  |
|         | S/T   | 0.88                                 | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00 | 0.94 | 0.77 | 0.57 | 1.00  | 0.94 | 0.77 | 0.57 |  |  |       |  |  |  |  |  |
|         | ΔT    | 25                                   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 26   | 25   | 21   | 17   | 25   | 24   | 21   | 17   | 24   | 23   | 20   | 16   | 23    | 20   | 16   | 16   |  |  |       |  |  |  |  |  |
|         | kW    | 2.74                                 | 2.80 | 2.88 | 2.96 | 2.93 | 2.99 | 3.08 | 3.17 | 3.10 | 3.17 | 3.26 | 3.36 | 3.25 | 3.32 | 3.42 | 3.52 | 3.38 | 3.45 | 3.55 | 3.66 | 3.49 | 3.56 | 3.67 | 3.79 | 3.49  | 3.56 | 3.67 | 3.79 |  |  |       |  |  |  |  |  |
|         | Amps  | 10.0                                 | 10.3 | 10.6 | 11.0 | 10.8 | 11.1 | 11.5 | 11.9 | 11.8 | 12.1 | 12.5 | 12.9 | 12.6 | 12.9 | 13.3 | 13.8 | 13.4 | 13.7 | 14.2 | 14.7 | 14.2 | 14.5 | 15.0 | 15.6 | 14.2  | 14.5 | 15.0 | 15.6 |  |  |       |  |  |  |  |  |
| 80      | Hi PR | 224                                  | 241  | 255  | 266  | 252  | 271  | 286  | 298  | 286  | 308  | 325  | 339  | 326  | 351  | 371  | 386  | 367  | 395  | 417  | 435  | 405  | 436  | 461  | 480  | 367   | 395  | 417  | 435  |  |  |       |  |  |  |  |  |
|         | Lo PR | 104                                  | 111  | 121  | 129  | 110  | 117  | 128  | 136  | 114  | 122  | 133  | 142  | 120  | 128  | 140  | 149  | 126  | 134  | 146  | 156  | 130  | 139  | 151  | 161  | 126   | 134  | 146  | 156  |  |  |       |  |  |  |  |  |
|         | MBh   | 41.4                                 | 42.3 | 45.2 | 48.3 | 40.4 | 41.3 | 44.1 | 47.1 | 39.4 | 40.3 | 43.1 | 46.0 | 38.5 | 39.3 | 42.0 | 44.9 | 36.5 | 37.3 | 39.9 | 42.7 | 33.9 | 34.6 | 37.0 | 39.5 | 1.00  | 0.97 | 0.79 | 0.59 |  |  |       |  |  |  |  |  |
|         | S/T   | 0.91                                 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.96 | 0.90 | 0.74 | 0.55 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 0.98 | 0.80 | 0.59 | 1.00  | 0.97 | 0.79 | 0.59 |  |  |       |  |  |  |  |  |
|         | ΔT    | 25                                   | 24   | 21   | 16   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 24   | 24   | 21   | 17   | 22   | 22   | 19   | 15   | 22    | 22   | 19   | 15   |  |  |       |  |  |  |  |  |
| 1400    | kW    | 2.80                                 | 2.86 | 2.94 | 3.03 | 3.00 | 3.06 | 3.15 | 3.25 | 3.18 | 3.24 | 3.34 | 3.44 | 3.33 | 3.40 | 3.50 | 3.61 | 3.46 | 3.53 | 3.64 | 3.75 | 3.57 | 3.65 | 3.76 | 3.88 | 3.49  | 3.56 | 3.67 | 3.76 |  |  |       |  |  |  |  |  |
|         | Amps  | 10.3                                 | 10.6 | 10.9 | 11.3 | 11.1 | 11.4 | 11.8 | 12.2 | 12.1 | 12.4 | 12.8 | 13.3 | 12.9 | 13.2 | 13.7 | 14.3 | 13.8 | 14.1 | 14.6 | 15.1 | 14.6 | 14.9 | 15.4 | 16.0 | 14.3  | 14.6 | 15.1 | 15.4 |  |  |       |  |  |  |  |  |
|         | Hi PR | 231                                  | 249  | 263  | 274  | 260  | 279  | 295  | 308  | 295  | 318  | 335  | 350  | 336  | 362  | 382  | 398  | 378  | 407  | 430  | 448  | 418  | 450  | 475  | 495  | 378   | 407  | 430  | 448  |  |  |       |  |  |  |  |  |
|         | Lo PR | 107                                  | 114  | 125  | 133  | 114  | 121  | 132  | 140  | 118  | 126  | 137  | 146  | 124  | 132  | 144  | 153  | 130  | 138  | 151  | 161  | 134  | 143  | 156  | 166  | 130   | 138  | 151  | 161  |  |  |       |  |  |  |  |  |
|         | MBh   | 42.6                                 | 43.5 | 46.5 | 49.7 | 41.6 | 42.5 | 45.4 | 48.6 | 40.6 | 41.5 | 44.3 | 47.4 | 39.6 | 40.5 | 43.3 | 46.2 | 37.6 | 38.5 | 41.1 | 43.9 | 34.9 | 35.6 | 38.1 | 40.7 | 1.00  | 1.00 | 0.83 | 0.62 |  |  |       |  |  |  |  |  |
| 1575    | S/T   | 0.95                                 | 0.89 | 0.73 | 0.54 | 1.00 | 0.93 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 1.00 | 0.80 | 0.60 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00  | 1.00 | 0.83 | 0.62 |  |  |       |  |  |  |  |  |
|         | ΔT    | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 23   | 24   | 20   | 16   | 23   | 24   | 20   | 16   | 20   | 21   | 19   | 15   | 22    | 22   | 19   | 15   |  |  |       |  |  |  |  |  |
|         | kW    | 2.82                                 | 2.88 | 2.96 | 3.05 | 3.02 | 3.08 | 3.17 | 3.27 | 3.20 | 3.26 | 3.36 | 3.47 | 3.35 | 3.42 | 3.53 | 3.64 | 3.49 | 3.56 | 3.67 | 3.78 | 3.60 | 3.67 | 3.79 | 3.91 | 3.49  | 3.56 | 3.67 | 3.79 |  |  |       |  |  |  |  |  |
|         | Amps  | 10.4                                 | 10.7 | 11.0 | 11.4 | 11.2 | 11.5 | 11.9 | 12.3 | 12.2 | 12.5 | 12.9 | 13.4 | 13.0 | 13.4 | 13.8 | 14.3 | 13.9 | 14.2 | 14.7 | 15.2 | 14.7 | 15.1 | 15.6 | 16.2 | 13.9  | 14.2 | 14.7 | 15.2 |  |  |       |  |  |  |  |  |
|         | Hi PR | 234                                  | 251  | 265  | 277  | 262  | 282  | 298  | 311  | 298  | 321  | 339  | 353  | 340  | 365  | 386  | 402  | 382  | 411  | 434  | 453  | 422  | 454  | 480  | 500  | 422   | 454  | 480  | 500  |  |  |       |  |  |  |  |  |
| 85      | Lo PR | 109                                  | 116  | 126  | 134  | 115  | 122  | 133  | 142  | 119  | 127  | 138  | 147  | 125  | 133  | 145  | 155  | 131  | 140  | 152  | 162  | 136  | 144  | 158  | 168  | 131   | 140  | 152  | 162  |  |  |       |  |  |  |  |  |
|         | MBh   | 38.8                                 | 39.6 | 41.5 | 44.2 | 37.9 | 38.7 | 40.5 | 43.2 | 37.0 | 37.7 | 39.5 | 42.2 | 36.1 | 36.8 | 38.6 | 41.2 | 34.3 | 35.0 | 36.6 | 39.1 | 31.8 | 32.4 | 33.9 | 36.2 | 1.00  | 1.00 | 0.91 | 0.74 |  |  |       |  |  |  |  |  |
|         | S/T   | 0.92                                 | 0.89 | 0.80 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.92 | 0.74 | 1.00  | 1.00 | 0.92 | 0.74 |  |  |       |  |  |  |  |  |
|         | ΔT    | 27                                   | 26   | 25   | 22   | 27   | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 26   | 26   | 25   | 22   | 24   | 24   | 23   | 20   | 26    | 26   | 25   | 22   |  |  |       |  |  |  |  |  |
|         | kW    | 2.76                                 | 2.82 | 2.90 | 2.98 | 2.96 | 3.01 | 3.10 | 3.20 | 3.13 | 3.19 | 3.28 | 3.38 | 3.28 | 3.34 | 3.44 | 3.55 | 3.40 | 3.47 | 3.58 | 3.69 | 3.51 | 3.59 | 3.70 | 3.82 | 3.49  | 3.56 | 3.67 | 3.79 |  |  |       |  |  |  |  |  |
| 1225    | Amps  | 10.1                                 | 10.4 | 10.7 | 11.1 | 10.9 | 11.2 | 11.6 | 12.0 | 11.9 | 12.2 | 12.6 | 13.0 | 12.7 | 13.0 | 13.4 | 13.9 | 13.5 | 13.8 | 14.3 | 14.8 | 14.3 | 14.6 | 15.1 | 15.7 | 13.5  | 13.8 | 14.3 | 14.8 |  |  |       |  |  |  |  |  |
|         | Hi PR | 227                                  | 244  | 257  | 269  | 254  | 274  | 289  | 301  | 289  | 311  | 329  | 343  | 329  | 354  | 374  | 390  | 371  | 399  | 421  | 439  | 409  | 441  | 465  | 485  | 371   | 399  | 421  | 439  |  |  |       |  |  |  |  |  |
|         | Lo PR | 105                                  | 112  | 122  | 130  | 111  | 118  | 129  | 138  | 116  | 123  | 134  | 143  | 121  | 129  | 141  | 150  | 127  | 135  | 148  | 157  | 132  | 140  | 153  | 163  | 127   | 135  | 148  | 157  |  |  |       |  |  |  |  |  |
|         | MBh   | 42.1                                 | 42.9 | 44.9 | 47.9 | 41.1 | 41.9 | 43.9 | 46.8 | 40.1 | 40.9 | 42.8 | 45.7 | 39.1 | 39.9 | 41.8 | 44.6 | 37.2 | 37.9 | 39.7 | 42.4 | 34.4 | 35.1 | 36.8 | 39.2 | 1.00  | 1.00 | 0.94 | 0.77 |  |  |       |  |  |  |  |  |
|         | S/T   | 0.95                                 | 0.92 | 0.83 | 0.67 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.98 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.77 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00  | 1.00 | 0.94 | 0.77 |  |  |       |  |  |  |  |  |
| 1400    | ΔT    | 26                                   | 26   | 24   | 21   | 27   | 26   | 25   | 21   | 26   | 26   | 25   | 21   | 26   | 26   | 25   | 21   | 24   | 25   | 25   | 21   | 23   | 23   | 20   | 20   | 24    | 25   | 25   | 21   |  |  |       |  |  |  |  |  |
|         | kW    | 2.82                                 | 2.88 | 2.96 | 3.05 | 3.02 | 3.08 | 3.17 | 3.27 | 3.20 | 3.26 | 3.36 | 3.47 | 3.35 | 3.42 | 3.53 | 3.64 | 3.49 | 3.56 | 3.67 | 3.78 | 3.60 | 3.67 | 3.79 | 3.91 | 3.49  | 3.56 | 3.67 | 3.79 |  |  |       |  |  |  |  |  |
|         | Amps  | 10.4                                 | 10.7 | 11.0 | 11.4 | 11.2 | 11.5 | 11.9 | 12.3 | 12.2 | 12.5 | 12.9 | 13.4 | 13.0 | 13.4 | 13.8 | 14.3 | 13.9 | 14.2 | 14.7 | 15.2 | 14.7 | 15.1 | 15.6 | 16.2 | 13.9  | 14.2 | 14.7 | 15.2 |  |  |       |  |  |  |  |  |
|         | Hi PR | 234                                  | 251  | 265  | 277  | 262  | 282  | 298  | 311  | 298  | 321  | 339  | 353  | 340  | 365  | 386  | 402  | 382  | 411  | 434  | 453  | 422  | 454  | 480  | 500  | 422   | 454  | 480  | 500  |  |  |       |  |  |  |  |  |
|         | Lo PR | 109                                  | 116  | 126  | 134  | 115  | 122  | 133  | 142  | 119  | 127  | 138  | 147  | 125  | 133  | 145  | 155  | 131  | 140  | 152  | 162  | 136  | 144  | 158  | 168  | 131   | 140  | 152  | 162  |  |  |       |  |  |  |  |  |
| 1575    | MBh   | 43.3                                 | 44.2 | 46.3 | 49.4 | 41.3 | 43.2 | 45.2 | 48.2 | 41.3 | 42.1 | 44.1 | 47.1 | 40.3 | 41.1 | 43.0 | 45.9 | 38.3 | 39.0 | 40.9 | 43.6 | 35.5 | 36.2 | 37.9 | 40.4 | 1.00  | 1.00 | 0.99 | 0.80 |  |  |       |  |  |  |  |  |
|         | S/T   | 1.00                                 | 0.96 | 0.87 | 0.70 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.99 | 0.80 | 1.00 | 1.00 | 0.99 | 0.81 | 1.00  | 1.00 | 0.99 | 0.80 |  |  |       |  |  |  |  |  |
|         | ΔT    | 25                                   | 25   | 23   | 20   | 25   | 25   | 24   | 21   | 24   | 25   | 24   | 21   | 24   | 24   | 24   | 21   | 22   | 23   | 24   | 20   | 21   | 21   | 22   | 19   | 22    | 23   | 24   | 20   |  |  |       |  |  |  |  |  |
|         | kW    | 2.85                                 | 2.90 | 2.98 | 3.07 | 3.05 | 3.11 | 3.20 | 3.30 | 3.22 | 3.29 | 3.39 | 3.49 | 3.38 | 3.45 | 3.55 | 3.67 | 3.51 | 3.59 | 3.70 | 3.81 | 3.63 | 3.70 | 3.82 | 3.94 | 3.60  | 3.67 | 3.79 | 3.91 |  |  |       |  |  |  |  |  |
|         | Amps  | 10.5                                 | 10.8 | 11.1 | 11.5 | 11.3 | 11.6 | 12.0 | 12.4 | 12.3 | 12.6 | 13.0 | 13.5 | 13.2 | 13.5 | 13.9 | 14.5 | 14.0 | 14.3 | 14.8 | 15.4 | 14.8 | 15.2 | 15.7 | 16.3 | 14.8  | 15.2 | 15.7 | 16.3 |  |  |       |  |  |  |  |  |
| 85      | Hi PR | 236                                  | 254  | 268  | 280  | 265  | 285  | 301  | 314  | 301  | 324  | 342  | 357  | 343  | 369  | 390  | 406  | 386  | 415  | 438  | 457  | 426  | 459  | 484  | 505  | 426   | 459  | 484  | 505  |  |  |       |  |  |  |  |  |
|         | Lo PR | 110                                  | 117  | 127  | 136  | 116  | 123  | 135  | 143  | 120  | 128  | 140  | 149  | 126  | 135  | 147  | 156  | 133  | 141  | 154  | 164  | 137  | 146  | 159  | 170  | 137   | 146  | 159  | 170  |  |  |       |  |  |  |  |  |

# EXPANDED COOLING DATA — GSX160481F\* / CA\*F4961\*6D\*+TXV

|       |         | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |
|-------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
|       |         | 65°F                        |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |      |      |      |      |      |      |      |      |
| IDB   | AIRFLOW | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
|       | MBh     | 42.6                        | 44.2 | 48.4 | -    | 41.6 | 43.2 | 47.3 | -    | 40.7 | 42.1 | 46.2 | -    | 39.7 | 41.1 | 45.0 | -    | 37.7  | 39.1 | 42.8 | -    | 34.9  | 36.2 | 39.6 | -    | 37.7 | 39.1 | 42.8 | -    | 34.9 | 36.2 | 39.6 | -    |
|       | S/T     | 0.70                        | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.75 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.45 | -    | 0.80  | 0.67 | 0.46 | -    | 0.81  | 0.67 | 0.47 | -    | 0.80 | 0.67 | 0.46 | -    | 0.81 | 0.67 | 0.47 | -    |
|       | ΔT      | 20                          | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 20    | 17   | 13   | -    | 18    | 16   | 12   | -    | 20   | 17   | 13   | -    | 18   | 16   | 12   | -    |
|       | kW      | 2.95                        | 3.01 | 3.09 | -    | 3.16 | 3.22 | 3.32 | -    | 3.34 | 3.41 | 3.51 | -    | 3.50 | 3.57 | 3.68 | -    | 3.64  | 3.71 | 3.83 | -    | 3.76  | 3.84 | 3.95 | -    | 3.64 | 3.71 | 3.83 | -    | 3.76 | 3.84 | 3.95 | -    |
|       | Amps    | 10.8                        | 11.0 | 11.4 | -    | 11.7 | 11.9 | 12.3 | -    | 12.7 | 13.0 | 13.4 | -    | 13.5 | 13.9 | 14.3 | -    | 14.4  | 14.7 | 15.2 | -    | 15.3  | 15.6 | 16.2 | -    | 14.4 | 14.7 | 15.2 | -    | 15.3 | 15.6 | 16.2 | -    |
| 70    | Hi PR   | 221                         | 238  | 251  | -    | 248  | 267  | 282  | -    | 282  | 304  | 321  | -    | 321  | 346  | 365  | -    | 361   | 389  | 411  | -    | 399   | 430  | 454  | -    | 361  | 389  | 411  | -    | 399  | 430  | 454  | -    |
|       | Lo PR   | 105                         | 112  | 122  | -    | 111  | 118  | 129  | -    | 115  | 123  | 134  | -    | 121  | 129  | 141  | -    | 127   | 135  | 147  | -    | 131   | 140  | 152  | -    | 127  | 135  | 147  | -    | 131  | 140  | 152  | -    |
|       | MBh     | 43.3                        | 44.9 | 49.2 | -    | 42.3 | 43.8 | 48.0 | -    | 41.3 | 42.8 | 46.9 | -    | 40.3 | 41.7 | 45.7 | -    | 38.3  | 39.6 | 43.4 | -    | 35.4  | 36.7 | 40.2 | -    | 38.3 | 39.6 | 43.4 | -    | 35.4 | 36.7 | 40.2 | -    |
|       | S/T     | 0.73                        | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.44 | -    | 0.77 | 0.65 | 0.45 | -    | 0.80 | 0.67 | 0.46 | -    | 0.83  | 0.69 | 0.48 | -    | 0.84  | 0.70 | 0.48 | -    | 0.83 | 0.69 | 0.48 | -    | 0.84 | 0.70 | 0.48 | -    |
|       | ΔT      | 19                          | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 19    | 17   | 13   | -    | 18    | 16   | 12   | -    | 20   | 17   | 13   | -    | 18   | 16   | 12   | -    |
| 1500  | kW      | 2.99                        | 3.05 | 3.13 | -    | 3.20 | 3.26 | 3.36 | -    | 3.38 | 3.45 | 3.56 | -    | 3.55 | 3.62 | 3.73 | -    | 3.69  | 3.76 | 3.88 | -    | 3.81  | 3.89 | 4.01 | -    | 3.69 | 3.76 | 3.88 | -    | 3.81 | 3.89 | 4.01 | -    |
|       | Amps    | 11.0                        | 11.2 | 11.6 | -    | 11.8 | 12.1 | 12.5 | -    | 12.9 | 13.2 | 13.6 | -    | 13.7 | 14.1 | 14.5 | -    | 14.6  | 15.0 | 15.5 | -    | 15.5  | 15.9 | 16.4 | -    | 14.6 | 15.0 | 15.5 | -    | 15.5 | 15.9 | 16.4 | -    |
|       | Hi PR   | 225                         | 242  | 256  | -    | 252  | 272  | 287  | -    | 287  | 309  | 326  | -    | 327  | 352  | 371  | -    | 368   | 396  | 418  | -    | 406   | 437  | 462  | -    | 368  | 396  | 418  | -    | 406  | 437  | 462  | -    |
|       | Lo PR   | 107                         | 114  | 124  | -    | 113  | 120  | 131  | -    | 117  | 125  | 136  | -    | 123  | 131  | 143  | -    | 129   | 137  | 150  | -    | 134   | 142  | 155  | -    | 129  | 137  | 150  | -    | 134  | 142  | 155  | -    |
|       | MBh     | 44.8                        | 46.4 | 50.9 | -    | 43.8 | 45.4 | 49.7 | -    | 42.7 | 44.3 | 48.5 | -    | 41.7 | 43.2 | 47.3 | -    | 39.6  | 41.0 | 45.0 | -    | 36.7  | 38.0 | 41.6 | -    | 39.6 | 41.0 | 45.0 | -    | 36.7 | 38.0 | 41.6 | -    |
| 1800  | S/T     | 0.77                        | 0.65 | 0.45 | -    | 0.80 | 0.67 | 0.46 | -    | 0.82 | 0.69 | 0.48 | -    | 0.85 | 0.71 | 0.49 | -    | 0.88  | 0.74 | 0.51 | -    | 0.89  | 0.74 | 0.51 | -    | 0.88 | 0.74 | 0.51 | -    | 0.89 | 0.74 | 0.51 | -    |
|       | ΔT      | 18                          | 15   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18    | 15   | 12   | -    | 17    | 14   | 11   | -    | 18   | 15   | 12   | -    | 17   | 14   | 11   | -    |
|       | kW      | 3.03                        | 3.09 | 3.18 | -    | 3.25 | 3.31 | 3.41 | -    | 3.44 | 3.51 | 3.61 | -    | 3.60 | 3.68 | 3.79 | -    | 3.75  | 3.82 | 3.94 | -    | 3.87  | 3.95 | 4.07 | -    | 3.75 | 3.82 | 3.94 | -    | 3.87 | 3.95 | 4.07 | -    |
|       | Amps    | 11.2                        | 11.4 | 11.8 | -    | 12.1 | 12.3 | 12.8 | -    | 13.1 | 13.4 | 13.9 | -    | 14.0 | 14.3 | 14.8 | -    | 14.9  | 15.3 | 15.8 | -    | 15.8  | 16.2 | 16.7 | -    | 14.9 | 15.3 | 15.8 | -    | 15.8 | 16.2 | 16.7 | -    |
|       | Hi PR   | 229                         | 247  | 261  | -    | 257  | 277  | 292  | -    | 293  | 315  | 333  | -    | 333  | 359  | 379  | -    | 375   | 404  | 426  | -    | 414   | 446  | 471  | -    | 375  | 404  | 426  | -    | 414  | 446  | 471  | -    |
| Lo PR | 109     | 116                         | 127  | -    | 115  | 122  | 134  | -    | 120  | 127  | 139  | -    | 126  | 134  | 146  | -    | 132  | 140   | 153  | -    | 136  | 145   | 158  | -    | 132  | 140  | 153  | -    | 136  | 145  | 158  | -    |      |
|       | MBh     | 43.4                        | 44.6 | 48.3 | 51.9 | 42.4 | 43.6 | 47.2 | 50.7 | 41.3 | 42.6 | 46.1 | 49.5 | 40.3 | 41.5 | 45.0 | 48.2 | 38.3  | 39.5 | 42.7 | 45.8 | 35.5  | 36.5 | 39.6 | 42.5 | 38.3 | 39.5 | 42.7 | 45.8 | 35.5 | 36.5 | 39.6 | 42.5 |
|       | S/T     | 0.80                        | 0.71 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.57 | 0.37 | 0.88 | 0.78 | 0.59 | 0.38 | 0.91  | 0.81 | 0.62 | 0.40 | 0.92  | 0.82 | 0.62 | 0.40 | 0.94 | 0.84 | 0.64 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
|       | ΔT      | 23                          | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23    | 21   | 17   | 12   | 21    | 19   | 16   | 11   | 23   | 21   | 17   | 12   | 21   | 19   | 16   | 11   |
|       | kW      | 2.97                        | 3.03 | 3.12 | 3.21 | 3.18 | 3.25 | 3.34 | 3.44 | 3.37 | 3.43 | 3.54 | 3.65 | 3.53 | 3.60 | 3.71 | 3.83 | 3.67  | 3.74 | 3.86 | 3.98 | 3.79  | 3.87 | 3.99 | 4.11 | 3.67 | 3.74 | 3.86 | 3.98 | 3.79 | 3.87 | 3.99 | 4.11 |
|       | Amps    | 10.9                        | 11.2 | 11.5 | 11.9 | 11.8 | 12.0 | 12.4 | 12.9 | 12.8 | 13.1 | 13.5 | 14.0 | 13.7 | 14.0 | 14.5 | 15.0 | 14.5  | 14.9 | 15.4 | 16.0 | 15.4  | 15.8 | 16.3 | 16.9 | 14.5 | 14.9 | 15.4 | 16.0 | 15.4 | 15.8 | 16.3 | 16.9 |
| 75    | Hi PR   | 223                         | 240  | 254  | 265  | 251  | 270  | 285  | 297  | 285  | 307  | 324  | 338  | 325  | 349  | 369  | 385  | 325   | 349  | 369  | 385  | 403   | 434  | 458  | 478  | 325  | 349  | 369  | 385  | 403  | 434  | 458  | 478  |
|       | Lo PR   | 106                         | 113  | 123  | 131  | 112  | 119  | 130  | 139  | 116  | 124  | 135  | 144  | 122  | 130  | 142  | 151  | 122   | 136  | 149  | 159  | 133   | 141  | 154  | 164  | 122  | 136  | 149  | 159  | 133  | 141  | 154  | 164  |
|       | MBh     | 44.0                        | 45.3 | 49.1 | 52.7 | 43.0 | 44.3 | 47.9 | 51.4 | 42.0 | 43.2 | 46.8 | 50.2 | 41.0 | 42.2 | 45.6 | 49.0 | 40.9  | 42.1 | 45.4 | 48.5 | 36.0  | 37.1 | 40.2 | 43.1 | 40.9 | 42.1 | 45.4 | 48.5 | 36.0 | 37.1 | 40.2 | 43.1 |
|       | S/T     | 0.83                        | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.91 | 0.81 | 0.61 | 0.40 | 0.94  | 0.84 | 0.64 | 0.41 | 0.95  | 0.85 | 0.64 | 0.41 | 0.94 | 0.84 | 0.64 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
|       | ΔT      | 22                          | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23    | 21   | 17   | 12   | 21    | 19   | 16   | 11   | 23   | 21   | 17   | 12   | 21   | 19   | 16   | 11   |
| 1500  | kW      | 3.01                        | 3.07 | 3.16 | 3.25 | 3.22 | 3.29 | 3.38 | 3.49 | 3.41 | 3.48 | 3.59 | 3.70 | 3.58 | 3.65 | 3.76 | 3.88 | 3.72  | 3.79 | 3.91 | 4.04 | 3.84  | 3.92 | 4.04 | 4.17 | 3.72 | 3.79 | 3.91 | 4.04 | 3.84 | 3.92 | 4.04 | 4.17 |
|       | Amps    | 11.1                        | 11.3 | 11.7 | 12.1 | 12.0 | 12.2 | 12.6 | 13.1 | 13.0 | 13.3 | 13.7 | 14.3 | 13.9 | 14.2 | 14.7 | 15.2 | 14.8  | 15.1 | 15.6 | 16.2 | 15.6  | 16.0 | 16.6 | 17.2 | 14.8 | 15.1 | 15.6 | 16.2 | 15.6 | 16.0 | 16.6 | 17.2 |
|       | Hi PR   | 227                         | 244  | 258  | 269  | 255  | 274  | 290  | 302  | 290  | 312  | 329  | 344  | 330  | 355  | 375  | 391  | 330   | 355  | 375  | 391  | 410   | 442  | 466  | 486  | 330  | 355  | 375  | 391  | 410  | 442  | 466  | 486  |
|       | Lo PR   | 108                         | 115  | 125  | 133  | 114  | 121  | 132  | 141  | 118  | 126  | 138  | 147  | 124  | 132  | 145  | 154  | 124   | 132  | 145  | 154  | 135   | 144  | 157  | 167  | 124  | 132  | 145  | 154  | 135  | 144  | 157  | 167  |
|       | MBh     | 45.6                        | 46.9 | 50.8 | 54.5 | 44.5 | 45.8 | 49.6 | 53.2 | 43.4 | 44.7 | 48.4 | 52.0 | 42.4 | 43.6 | 47.2 | 50.7 | 40.3  | 41.5 | 44.9 | 48.2 | 37.3  | 38.4 | 41.6 | 44.6 | 40.3 | 41.5 | 44.9 | 48.2 | 37.3 | 38.4 | 41.6 | 44.6 |
| 1800  | S/T     | 0.88                        | 0.79 | 0.60 | 0.38 | 0.91 | 0.82 | 0.62 | 0.40 | 0.93 | 0.84 | 0.63 | 0.41 | 0.96 | 0.86 | 0.65 | 0.42 | 1.00  | 0.90 | 0.68 | 0.44 | 1.00  | 0.90 | 0.68 | 0.44 | 1.00 | 0.90 | 0.68 | 0.44 | 1.00 | 0.90 | 0.68 | 0.44 |
|       | ΔT      | 20                          | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21    | 19   | 16   | 11   | 21    | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   |
|       | kW      | 3.05                        | 3.11 | 3.20 | 3.30 | 3.27 | 3.34 | 3.44 | 3.54 | 3.46 | 3.53 | 3.64 | 3.75 | 3.63 | 3.71 | 3.82 | 3.94 | 3.78  | 3.85 | 3.97 | 4.10 | 3.90  | 3.98 | 4.11 | 4.24 | 3.78 | 3.85 | 3.97 | 4.10 | 3.90 | 3.98 | 4.11 | 4.24 |
|       | Amps    | 11.3                        | 11.5 | 11.9 | 12.3 | 12.2 | 12.5 | 12.9 | 13.4 | 13.2 | 13.5 | 14.0 | 14.5 |      |      |      |      |       |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |

# EXPANDED COOLING DATA — GSX160481F\* / CA\*F4961\*6D\* +TXV (CONT.)

|      |         | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |
|------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|
|      |         | 65°F                        |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |
| IDB  | AIRFLOW | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   |
| 1400 | MBh     | 44.1                        | 45.1 | 48.2 | 51.5 | 43.1 | 44.0 | 47.1 | 50.3 | 42.1 | 43.0 | 45.9 | 49.1 | 41.1 | 41.9 | 44.8 | 47.9 | 39.0  | 39.9 | 42.6 | 45.5 | 36.1  | 36.9 | 39.4 | 42.2 |
|      | S/T     | 0.88                        | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 1.00  | 0.93 | 0.76 | 0.57 | 1.00  | 0.94 | 0.77 | 0.57 |
|      | ΔT      | 25                          | 24   | 21   | 17   | 26   | 25   | 21   | 17   | 26   | 25   | 21   | 17   | 26   | 25   | 22   | 17   | 26    | 24   | 21   | 17   | 24    | 23   | 20   | 16   |
|      | kW      | 2.99                        | 3.05 | 3.14 | 3.23 | 3.21 | 3.27 | 3.37 | 3.47 | 3.39 | 3.46 | 3.57 | 3.68 | 3.56 | 3.63 | 3.74 | 3.86 | 3.70  | 3.77 | 3.89 | 4.01 | 3.82  | 3.90 | 4.02 | 4.15 |
|      | Amps    | 11.0                        | 11.3 | 11.6 | 12.0 | 11.9 | 12.2 | 12.6 | 13.0 | 12.9 | 13.2 | 13.6 | 14.2 | 13.8 | 14.1 | 14.6 | 15.1 | 14.7  | 15.0 | 15.5 | 16.1 | 15.5  | 15.9 | 16.5 | 17.1 |
|      | Hi PR   | 226                         | 243  | 256  | 267  | 253  | 272  | 288  | 300  | 288  | 310  | 327  | 341  | 328  | 353  | 373  | 389  | 369   | 397  | 419  | 437  | 408   | 439  | 463  | 483  |
| 1500 | Lo PR   | 107                         | 114  | 124  | 133  | 113  | 120  | 131  | 140  | 118  | 125  | 137  | 146  | 124  | 131  | 144  | 153  | 130   | 138  | 150  | 160  | 134   | 143  | 156  | 166  |
|      | MBh     | 44.8                        | 45.8 | 48.9 | 52.3 | 43.8 | 44.7 | 47.8 | 51.1 | 42.7 | 43.7 | 46.6 | 49.9 | 41.7 | 42.6 | 45.5 | 48.6 | 39.6  | 40.5 | 43.2 | 46.2 | 36.7  | 37.5 | 40.0 | 42.8 |
|      | S/T     | 0.91                        | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.96 | 0.90 | 0.74 | 0.55 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00  | 0.97 | 0.79 | 0.59 | 1.00  | 0.98 | 0.80 | 0.59 |
|      | ΔT      | 25                          | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 24    | 24   | 21   | 17   | 22    | 22   | 20   | 16   |
|      | kW      | 3.03                        | 3.09 | 3.18 | 3.28 | 3.25 | 3.31 | 3.41 | 3.51 | 3.44 | 3.51 | 3.61 | 3.73 | 3.60 | 3.68 | 3.79 | 3.91 | 3.75  | 3.82 | 3.94 | 4.07 | 3.87  | 3.95 | 4.07 | 4.20 |
|      | Amps    | 11.2                        | 11.4 | 11.8 | 12.2 | 12.1 | 12.4 | 12.8 | 13.2 | 13.1 | 13.4 | 13.9 | 14.4 | 14.0 | 14.3 | 14.8 | 15.4 | 14.9  | 15.3 | 15.8 | 16.4 | 15.8  | 16.2 | 16.7 | 17.4 |
| 1600 | Hi PR   | 229                         | 247  | 261  | 272  | 257  | 277  | 293  | 305  | 293  | 315  | 333  | 347  | 334  | 359  | 379  | 395  | 375   | 404  | 426  | 445  | 415   | 446  | 471  | 491  |
|      | Lo PR   | 109                         | 116  | 127  | 135  | 115  | 123  | 134  | 142  | 120  | 127  | 139  | 148  | 126  | 134  | 146  | 155  | 132   | 140  | 153  | 163  | 136   | 145  | 158  | 169  |
|      | MBh     | 46.4                        | 47.4 | 50.6 | 54.1 | 45.3 | 46.3 | 49.4 | 52.9 | 44.2 | 45.2 | 48.3 | 51.6 | 43.1 | 44.1 | 47.1 | 50.3 | 41.0  | 41.9 | 44.7 | 47.8 | 38.0  | 38.8 | 41.4 | 44.3 |
|      | S/T     | 0.96                        | 0.90 | 0.74 | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.96 | 0.78 | 0.58 | 1.00 | 1.00 | 0.81 | 0.60 | 1.00  | 1.00 | 0.84 | 0.63 | 1.00  | 1.00 | 0.85 | 0.63 |
|      | ΔT      | 23                          | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 22   | 23   | 19   | 16   | 21    | 21   | 19   | 15   | 19    | 20   | 18   | 14   |
|      | kW      | 3.08                        | 3.14 | 3.23 | 3.33 | 3.30 | 3.36 | 3.46 | 3.57 | 3.49 | 3.56 | 3.67 | 3.78 | 3.66 | 3.74 | 3.85 | 3.97 | 3.81  | 3.88 | 4.01 | 4.13 | 3.93  | 4.01 | 4.14 | 4.27 |
| 1400 | Amps    | 11.1                        | 11.4 | 11.7 | 12.2 | 12.0 | 12.3 | 12.7 | 13.1 | 13.0 | 13.3 | 13.8 | 14.3 | 13.9 | 14.2 | 14.7 | 15.3 | 14.8  | 15.2 | 15.7 | 16.3 | 15.7  | 16.1 | 16.6 | 17.2 |
|      | Hi PR   | 228                         | 245  | 259  | 270  | 256  | 275  | 290  | 303  | 291  | 313  | 330  | 345  | 331  | 356  | 376  | 392  | 373   | 401  | 423  | 442  | 412   | 443  | 468  | 488  |
|      | Lo PR   | 108                         | 115  | 126  | 134  | 114  | 122  | 133  | 141  | 119  | 126  | 138  | 147  | 125  | 133  | 145  | 154  | 131   | 139  | 152  | 162  | 135   | 144  | 157  | 167  |
|      | MBh     | 45.6                        | 46.5 | 48.7 | 51.9 | 44.5 | 45.4 | 47.5 | 50.7 | 43.5 | 44.3 | 46.4 | 49.5 | 42.4 | 43.2 | 45.3 | 48.3 | 40.3  | 41.1 | 43.0 | 45.9 | 37.3  | 38.0 | 39.8 | 42.5 |
|      | S/T     | 0.95                        | 0.92 | 0.83 | 0.67 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.98 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00  | 1.00 | 0.94 | 0.77 | 1.00  | 1.00 | 0.95 | 0.77 |
|      | ΔT      | 27                          | 26   | 25   | 21   | 27   | 26   | 25   | 22   | 27   | 26   | 25   | 22   | 26   | 26   | 25   | 22   | 25    | 25   | 25   | 22   | 23    | 23   | 20   | 20   |
| 1500 | kW      | 3.05                        | 3.11 | 3.21 | 3.30 | 3.27 | 3.34 | 3.44 | 3.54 | 3.46 | 3.53 | 3.64 | 3.75 | 3.63 | 3.71 | 3.82 | 3.94 | 3.78  | 3.85 | 3.97 | 4.10 | 3.90  | 3.98 | 4.11 | 4.24 |
|      | Amps    | 11.3                        | 11.5 | 11.9 | 12.3 | 12.2 | 12.5 | 12.9 | 13.4 | 13.2 | 13.5 | 14.0 | 14.5 | 14.1 | 14.5 | 15.0 | 15.5 | 15.0  | 15.4 | 15.9 | 16.5 | 15.9  | 16.3 | 16.9 | 17.5 |
|      | Hi PR   | 232                         | 249  | 263  | 275  | 260  | 280  | 296  | 308  | 296  | 318  | 336  | 351  | 337  | 363  | 383  | 399  | 379   | 408  | 431  | 449  | 419   | 451  | 476  | 496  |
|      | Lo PR   | 110                         | 117  | 128  | 136  | 116  | 124  | 135  | 144  | 121  | 129  | 140  | 150  | 127  | 135  | 147  | 157  | 133   | 142  | 155  | 165  | 138   | 146  | 160  | 170  |
|      | MBh     | 47.2                        | 48.1 | 50.4 | 53.7 | 46.1 | 47.0 | 49.2 | 52.5 | 45.0 | 45.9 | 48.0 | 51.2 | 43.9 | 44.7 | 46.9 | 50.0 | 41.7  | 42.5 | 44.5 | 47.5 | 38.6  | 39.4 | 41.2 | 44.0 |
|      | S/T     | 1.00                        | 0.98 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.97 | 0.78 | 1.00  | 1.00 | 1.00 | 0.81 | 1.00  | 1.00 | 1.00 | 0.82 |
| 1600 | ΔT      | 24                          | 24   | 23   | 20   | 23   | 23   | 23   | 20   | 23   | 23   | 23   | 20   | 22   | 23   | 23   | 20   | 21    | 22   | 23   | 20   | 20    | 20   | 18   | 18   |
|      | kW      | 3.10                        | 3.16 | 3.25 | 3.35 | 3.32 | 3.39 | 3.49 | 3.60 | 3.52 | 3.59 | 3.70 | 3.81 | 3.69 | 3.77 | 3.88 | 4.00 | 3.83  | 3.92 | 4.04 | 4.17 | 3.96  | 4.05 | 4.17 | 4.31 |
|      | Amps    | 11.5                        | 11.7 | 12.1 | 12.6 | 12.4 | 12.7 | 13.1 | 13.6 | 13.5 | 13.8 | 14.2 | 14.8 | 14.4 | 14.7 | 15.2 | 15.8 | 15.3  | 15.7 | 16.2 | 16.8 | 16.2  | 16.6 | 17.2 | 17.9 |
|      | Hi PR   | 236                         | 254  | 269  | 280  | 265  | 285  | 301  | 314  | 302  | 325  | 343  | 358  | 344  | 370  | 390  | 407  | 387   | 416  | 439  | 458  | 427   | 460  | 485  | 506  |
|      | Lo PR   | 112                         | 119  | 130  | 139  | 119  | 126  | 138  | 147  | 123  | 131  | 143  | 152  | 130  | 138  | 150  | 160  | 136   | 144  | 158  | 168  | 140   | 149  | 163  | 174  |

Amps = outdoor unit amps (comp.+fan)  
kW = Total system power

Shaded area reflects AHRI conditions

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

# EXPANDED COOLING DATA — GSX160601F\* / CA\*F4961\*6D\*+TXV

|                                                                               |         | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |      |      |     |      |      |                                            |     |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|------|------|------|-----|------|------|--------------------------------------------|-----|--|--|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                                                               |         | 65°F                        |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |      |      |      |     |      |      |                                            |     |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IDB                                                                           | AIRFLOW | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59   | 63   | 67   | 71  | 59   | 63   | 67                                         | 71  |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                                                                            | MBh     | 51.9                        | 53.8 | 58.9 | -    | 50.7 | 52.5 | 57.6 | -    | 49.5 | 51.3 | 56.2 | -    | 48.3 | 50.0 | 54.8 | -    | 45.9  | 47.5 | 52.1 | -    | 42.5  | 44.0 | 48.2 | -    | 40.5 | 42.1 | 46.7 | -   | 38.5 | 40.0 | 44.5                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.74                        | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.45 | -    | 0.79 | 0.66 | 0.46 | -    | 0.81 | 0.68 | 0.47 | -    | 0.85  | 0.71 | 0.49 | -    | 0.88  | 0.74 | 0.51 | -    | 0.92 | 0.78 | 0.55 | -   | 0.95 | 0.81 | 0.58                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 20                          | 18   | 13   | -    | 20   | 18   | 13   | -    | 21   | 18   | 13   | -    | 21   | 18   | 14   | -    | 20    | 18   | 13   | -    | 19    | 16   | 12   | -    | 18   | 16   | 11   | -   | 17   | 14   | 10                                         | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 3.55                        | 3.62 | 3.73 | -    | 3.80 | 3.88 | 3.99 | -    | 4.03 | 4.11 | 4.23 | -    | 4.22 | 4.31 | 4.44 | -    | 4.39  | 4.48 | 4.62 | -    | 4.53  | 4.63 | 4.77 | -    | 4.43 | 4.53 | 4.67 | -   | 4.33 | 4.43 | 4.57                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 13.2                        | 13.5 | 14.0 | -    | 14.3 | 14.6 | 15.1 | -    | 15.5 | 15.9 | 16.4 | -    | 16.6 | 17.0 | 17.5 | -    | 17.6  | 18.0 | 18.6 | -    | 18.6  | 19.1 | 19.7 | -    | 18.6 | 19.1 | 19.7 | -   | 18.6 | 19.1 | 19.7                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 217                         | 233  | 246  | -    | 243  | 262  | 276  | -    | 276  | 297  | 314  | -    | 315  | 339  | 358  | -    | 354   | 381  | 403  | -    | 391   | 421  | 445  | -    | 391  | 421  | 445  | -   | 391  | 421  | 445                                        | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 103                         | 109  | 119  | -    | 109  | 115  | 126  | -    | 113  | 120  | 131  | -    | 118  | 126  | 138  | -    | 124   | 132  | 144  | -    | 128   | 137  | 149  | -    | 128  | 137  | 149  | -   | 128  | 137  | 149                                        | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 51.4                        | 53.2 | 58.3 | -    | 50.2 | 52.0 | 57.0 | -    | 49.0 | 50.8 | 55.6 | -    | 47.8 | 49.5 | 54.3 | -    | 45.4  | 47.1 | 51.6 | -    | 42.1  | 43.6 | 47.8 | -    | 40.5 | 42.1 | 46.7 | -   | 38.5 | 40.0 | 44.5                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.73                        | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.44 | -    | 0.77 | 0.65 | 0.45 | -    | 0.80 | 0.67 | 0.46 | -    | 0.83  | 0.69 | 0.48 | -    | 0.84  | 0.70 | 0.48 | -    | 0.88 | 0.74 | 0.51 | -   | 0.91 | 0.77 | 0.54                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 21                          | 18   | 14   | -    | 21   | 19   | 14   | -    | 21   | 19   | 14   | -    | 22   | 19   | 14   | -    | 21    | 18   | 14   | -    | 20    | 17   | 13   | -    | 19   | 16   | 11   | -   | 18   | 14   | 10                                         | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1625                                                                          | kW      | 3.55                        | 3.61 | 3.72 | -    | 3.80 | 3.87 | 3.99 | -    | 4.02 | 4.10 | 4.22 | -    | 4.21 | 4.30 | 4.43 | -    | 4.38  | 4.47 | 4.61 | -    | 4.52  | 4.61 | 4.76 | -    | 4.43 | 4.53 | 4.67 | -   | 4.33 | 4.43 | 4.57                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 13.2                        | 13.5 | 13.9 | -    | 14.2 | 14.6 | 15.1 | -    | 15.5 | 15.8 | 16.3 | -    | 16.5 | 16.9 | 17.5 | -    | 17.6  | 18.0 | 18.6 | -    | 18.6  | 19.0 | 19.7 | -    | 18.6 | 19.0 | 19.7 | -   | 18.6 | 19.0 | 19.7                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 216                         | 232  | 245  | -    | 242  | 261  | 275  | -    | 276  | 297  | 313  | -    | 314  | 338  | 357  | -    | 353   | 380  | 401  | -    | 390   | 420  | 443  | -    | 390  | 420  | 443  | -   | 390  | 420  | 443                                        | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 102                         | 109  | 119  | -    | 108  | 115  | 126  | -    | 112  | 120  | 131  | -    | 118  | 126  | 137  | -    | 124   | 132  | 144  | -    | 128   | 136  | 149  | -    | 128  | 136  | 149  | -   | 128  | 136  | 149                                        | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 53.2                        | 55.1 | 60.4 | -    | 51.9 | 53.8 | 59.0 | -    | 50.7 | 52.5 | 57.6 | -    | 49.5 | 51.3 | 56.2 | -    | 47.0  | 48.7 | 53.4 | -    | 43.5  | 45.1 | 49.4 | -    | 40.5 | 42.1 | 46.7 | -   | 38.5 | 40.0 | 44.5                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.77                        | 0.65 | 0.45 | -    | 0.80 | 0.67 | 0.46 | -    | 0.82 | 0.69 | 0.48 | -    | 0.85 | 0.71 | 0.49 | -    | 0.88  | 0.74 | 0.51 | -    | 0.89  | 0.74 | 0.51 | -    | 0.92 | 0.78 | 0.55 | -   | 0.95 | 0.81 | 0.58                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 17                          | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17    | 15   | 11   | -    | 16    | 14   | 10   | -    | 15   | 13   | 9    | -   | 14   | 10   | 6                                          | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 3.60                        | 3.67 | 3.77 | -    | 3.85 | 3.93 | 4.05 | -    | 4.08 | 4.16 | 4.29 | -    | 4.28 | 4.36 | 4.50 | -    | 4.44  | 4.54 | 4.68 | -    | 4.59  | 4.69 | 4.83 | -    | 4.43 | 4.53 | 4.67 | -   | 4.33 | 4.43 | 4.57                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 13.4                        | 13.7 | 14.2 | -    | 14.5 | 14.8 | 15.3 | -    | 15.7 | 16.1 | 16.6 | -    | 16.8 | 17.2 | 17.8 | -    | 17.9  | 18.3 | 18.9 | -    | 18.9  | 19.4 | 20.0 | -    | 18.9 | 19.4 | 20.0 | -   | 18.9 | 19.4 | 20.0                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 220                         | 237  | 250  | -    | 247  | 266  | 281  | -    | 281  | 303  | 319  | -    | 320  | 345  | 364  | -    | 360   | 388  | 409  | -    | 398   | 428  | 452  | -    | 398  | 428  | 452  | -   | 398  | 428  | 452                                        | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lo PR                                                                         | 104     | 111                         | 121  | -    | 110  | 117  | 128  | -    | 115  | 122  | 133  | -    | 120  | 128  | 140  | -    | 126  | 134   | 147  | -    | 131  | 139   | 152  | -    | 131  | 139  | 152  | -    | 131 | 139  | 152  | -                                          |     |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                                                                            | MBh     | 52.8                        | 54.3 | 58.8 | 63.1 | 51.5 | 53.1 | 57.4 | 61.6 | 50.3 | 51.8 | 56.1 | 60.2 | 49.1 | 50.5 | 54.7 | 58.7 | 46.6  | 48.0 | 52.0 | 55.8 | 43.2  | 44.5 | 48.1 | 51.7 | 40.5 | 42.1 | 46.7 | -   | 38.5 | 40.0 | 44.5                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.84                        | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.93 | 0.83 | 0.63 | 0.40 | 0.96  | 0.86 | 0.65 | 0.42 | 0.97  | 0.87 | 0.66 | 0.42 | 0.92 | 0.78 | 0.55 | -   | 0.95 | 0.81 | 0.58                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 23                          | 22   | 18   | 12   | 24   | 22   | 18   | 12   | 24   | 22   | 18   | 12   | 24   | 22   | 18   | 12   | 24    | 22   | 18   | 12   | 22    | 20   | 17   | 11   | 20   | 18   | 13   | -   | 19   | 16   | 12                                         | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 3.58                        | 3.65 | 3.76 | 3.87 | 3.83 | 3.91 | 4.03 | 4.15 | 4.06 | 4.14 | 4.26 | 4.40 | 4.25 | 4.34 | 4.48 | 4.62 | 4.42  | 4.51 | 4.65 | 4.80 | 4.57  | 4.66 | 4.81 | 4.96 | 4.43 | 4.53 | 4.67 | -   | 4.33 | 4.43 | 4.57                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 13.4                        | 13.7 | 14.1 | 14.6 | 14.4 | 14.8 | 15.2 | 15.8 | 15.6 | 16.0 | 16.5 | 17.2 | 16.7 | 17.1 | 17.7 | 18.3 | 17.8  | 18.2 | 18.8 | 19.5 | 18.8  | 19.3 | 19.9 | 20.7 | 18.6 | 19.1 | 19.7 | -   | 18.6 | 19.1 | 19.7                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 219                         | 235  | 249  | 259  | 246  | 264  | 279  | 291  | 279  | 301  | 317  | 331  | 318  | 342  | 361  | 377  | 358   | 385  | 407  | 424  | 395   | 425  | 449  | 469  | 405  | 421  | 467  | -   | 395  | 425  | 449                                        | 469 |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 104                         | 110  | 121  | 128  | 110  | 117  | 127  | 136  | 114  | 121  | 132  | 141  | 120  | 127  | 139  | 148  | 125   | 133  | 146  | 155  | 130   | 138  | 151  | 160  | 130  | 138  | 151  | -   | 130  | 138  | 151                                        | 160 |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 52.2                        | 53.8 | 58.2 | 62.5 | 51.0 | 52.5 | 56.9 | 61.0 | 49.8 | 51.3 | 55.5 | 59.6 | 48.6 | 50.0 | 54.2 | 58.1 | 46.2  | 47.5 | 51.5 | 55.2 | 42.8  | 44.0 | 47.7 | 51.2 | 40.5 | 42.1 | 46.7 | -   | 38.5 | 40.0 | 44.5                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.83                        | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.91 | 0.81 | 0.61 | 0.40 | 0.94  | 0.84 | 0.64 | 0.41 | 0.95  | 0.85 | 0.64 | 0.41 | 0.92 | 0.78 | 0.55 | -   | 0.95 | 0.81 | 0.58                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 24                          | 23   | 18   | 13   | 25   | 23   | 19   | 13   | 25   | 23   | 19   | 13   | 25   | 23   | 19   | 13   | 25    | 23   | 19   | 13   | 23    | 21   | 17   | 12   | 20   | 18   | 13   | -   | 19   | 16   | 12                                         | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1625                                                                          | kW      | 3.57                        | 3.64 | 3.75 | 3.86 | 3.82 | 3.90 | 4.02 | 4.14 | 4.05 | 4.13 | 4.25 | 4.39 | 4.24 | 4.33 | 4.46 | 4.60 | 4.41  | 4.50 | 4.64 | 4.79 | 4.56  | 4.65 | 4.80 | 4.95 | 4.43 | 4.53 | 4.67 | -   | 4.33 | 4.43 | 4.57                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 13.3                        | 13.6 | 14.1 | 14.6 | 14.4 | 14.7 | 15.2 | 15.8 | 15.6 | 16.0 | 16.5 | 17.1 | 16.7 | 17.1 | 17.6 | 18.3 | 17.7  | 18.2 | 18.8 | 19.5 | 18.8  | 19.2 | 19.9 | 20.6 | 18.6 | 19.1 | 19.7 | -   | 18.6 | 19.1 | 19.7                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 218                         | 235  | 248  | 259  | 245  | 263  | 278  | 290  | 278  | 300  | 316  | 330  | 317  | 341  | 360  | 376  | 357   | 384  | 405  | 423  | 394   | 424  | 448  | 467  | 405  | 421  | 467  | -   | 394  | 424  | 448                                        | 467 |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Lo PR   | 103                         | 110  | 120  | 128  | 109  | 116  | 127  | 135  | 114  | 121  | 132  | 141  | 119  | 127  | 139  | 148  | 125   | 133  | 145  | 155  | 129   | 138  | 150  | 160  | 130  | 138  | 150  | -   | 129  | 138  | 150                                        | 160 |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | MBh     | 54.1                        | 55.7 | 60.3 | 64.7 | 52.8 | 54.4 | 58.9 | 63.2 | 51.6 | 53.1 | 57.5 | 61.7 | 50.3 | 51.8 | 56.1 | 60.2 | 47.8  | 49.2 | 53.3 | 57.2 | 44.3  | 45.6 | 49.3 | 52.9 | 40.5 | 42.1 | 46.7 | -   | 38.5 | 40.0 | 44.5                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | S/T     | 0.88                        | 0.79 | 0.60 | 0.38 | 0.91 | 0.82 | 0.62 | 0.40 | 0.93 | 0.84 | 0.63 | 0.41 | 0.96 | 0.86 | 0.65 | 0.42 | 1.00  | 0.90 | 0.68 | 0.44 | 1.00  | 0.90 | 0.68 | 0.44 | 0.92 | 0.78 | 0.55 | -   | 0.95 | 0.81 | 0.58                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | ΔT      | 19                          | 18   | 15   | 10   | 20   | 18   | 15   | 10   | 20   | 18   | 15   | 10   | 20   | 18   | 15   | 10   | 20    | 18   | 15   | 10   | 18    | 17   | 14   | 10   | 18   | 16   | 11   | -   | 17   | 14   | 10                                         | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | kW      | 3.62                        | 3.69 | 3.80 | 3.92 | 3.88 | 3.96 | 4.08 | 4.20 | 4.11 | 4.19 | 4.32 | 4.45 | 4.31 | 4.40 | 4.53 | 4.68 | 4.48  | 4.57 | 4.72 | 4.87 | 4.63  | 4.73 | 4.87 | 5.03 | 4.43 | 4.53 | 4.67 | -   | 4.33 | 4.43 | 4.57                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Amps    | 13.6                        | 13.9 | 14.3 | 14.8 | 14.6 | 15.0 | 15.5 | 16.0 | 15.9 | 16.3 | 16.8 | 17.4 | 17.0 | 17.4 | 17.9 | 18.6 | 18.0  | 18.5 | 19.1 | 19.8 | 19.1  | 19.6 | 20.2 | 21.0 | 18.6 | 19.1 | 19.7 | -   | 18.6 | 19.1 | 19.7                                       | -   |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                               | Hi PR   | 223                         | 239  | 253  | 264  | 250  | 269  | 284  | 296  | 284  | 306  | 323  | 337  | 323  | 348  | 368  | 383  | 364   | 392  | 414  | 431  | 402   | 433  | 457  | 477  | 405  | 421  | 467  | -   | 392  | 414  | 431                                        | 457 |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lo PR                                                                         | 106     | 112                         | 123  | 131  | 111  | 119  | 129  | 138  | 116  | 123  | 135  | 143  | 122  | 129  | 141  | 151  | 128  | 136   | 148  | 158  | 132  | 140   | 153  | 163  | 130  | 138  | 151  | -    | 132 | 140  | 153  | 163                                        |     |  |  |                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DB: Entering Indoor Dry Bulb Temperature                                      |         |                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |      |      |     |      |      | Shaded area reflects ACCA (TVA) conditions |     |  |  | Amps = outdoor unit amps (comp.+fan) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| High and low pressures are measured at the liquid and suction service valves. |         |                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |      |      |      |     |      |      |                                            |     |  |  | kW = Total system power              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Amperage = outdoor unit amperage (comp. fan)  
kW = Total system power

Shaded area reflects ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction service valves.

# EXPANDED COOLING DATA — GSX160601F\* / CA\*F4961\*6D\* +TXV (CONT.)

|      |         | OUTDOOR AMBIENT TEMPERATURE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |
|------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|
|      |         | 65°F                        |      |      |      | 75°F |      |      |      | 85°F |      |      |      | 95°F |      |      |      | 105°F |      |      |      | 115°F |      |      |      |
| IDB  | AIRFLOW | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59    | 63   | 67   | 71   | 59    | 63   | 67   | 71   |
| 80   | MBh     | 53.7                        | 54.9 | 58.6 | 62.7 | 52.5 | 53.6 | 57.3 | 61.2 | 51.2 | 52.3 | 55.9 | 59.8 | 50.0 | 51.0 | 54.5 | 58.3 | 47.5  | 48.5 | 51.8 | 55.4 | 44.0  | 44.9 | 48.0 | 51.3 |
|      | S/T     | 0.93                        | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.98 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95 | 0.78 | 0.58 | 1.00  | 0.99 | 0.80 | 0.60 | 1.00  | 1.00 | 0.81 | 0.61 |
|      | ΔT      | 26                          | 25   | 22   | 17   | 26   | 25   | 22   | 18   | 26   | 25   | 22   | 18   | 26   | 26   | 25   | 22   | 25    | 25   | 22   | 17   | 23    | 24   | 20   | 16   |
|      | kW      | 3.61                        | 3.68 | 3.78 | 3.90 | 3.86 | 3.94 | 4.06 | 4.18 | 4.09 | 4.17 | 4.30 | 4.43 | 4.29 | 4.38 | 4.51 | 4.65 | 4.46  | 4.55 | 4.69 | 4.84 | 4.60  | 4.70 | 4.85 | 5.00 |
|      | Amps    | 13.5                        | 13.8 | 14.2 | 14.8 | 14.5 | 14.9 | 15.4 | 15.9 | 15.8 | 16.2 | 16.7 | 17.3 | 16.9 | 17.3 | 17.8 | 18.5 | 17.9  | 18.4 | 19.0 | 19.7 | 19.0  | 19.5 | 20.1 | 20.9 |
|      | Hi PR   | 221                         | 238  | 251  | 262  | 248  | 267  | 282  | 294  | 282  | 304  | 321  | 334  | 321  | 346  | 365  | 381  | 361   | 389  | 411  | 428  | 399   | 430  | 454  | 473  |
|      | Lo PR   | 105                         | 112  | 121  | 130  | 111  | 118  | 129  | 137  | 115  | 122  | 134  | 142  | 121  | 129  | 140  | 150  | 127   | 135  | 147  | 157  | 131   | 139  | 152  | 162  |
|      | MBh     | 53.2                        | 54.3 | 58.1 | 62.1 | 51.9 | 53.1 | 56.7 | 60.6 | 50.7 | 51.8 | 55.4 | 59.2 | 49.5 | 50.5 | 54.0 | 57.7 | 47.0  | 48.0 | 51.3 | 54.8 | 43.5  | 44.5 | 47.5 | 50.8 |
|      | S/T     | 0.91                        | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.96 | 0.90 | 0.74 | 0.55 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00  | 0.97 | 0.79 | 0.59 | 1.00  | 0.98 | 0.80 | 0.59 |
|      | ΔT      | 27                          | 26   | 23   | 18   | 28   | 26   | 23   | 18   | 28   | 27   | 23   | 18   | 28   | 27   | 23   | 19   | 27    | 26   | 23   | 18   | 25    | 25   | 21   | 17   |
| 85   | kW      | 3.60                        | 3.67 | 3.77 | 3.89 | 3.85 | 3.93 | 4.05 | 4.17 | 4.08 | 4.16 | 4.29 | 4.42 | 4.28 | 4.37 | 4.50 | 4.64 | 4.45  | 4.54 | 4.68 | 4.83 | 4.59  | 4.69 | 4.84 | 4.99 |
|      | Amps    | 13.4                        | 13.8 | 14.2 | 14.7 | 14.5 | 14.8 | 15.3 | 15.9 | 15.7 | 16.1 | 16.7 | 17.3 | 16.8 | 17.2 | 17.8 | 18.5 | 17.9  | 18.3 | 18.9 | 19.6 | 18.9  | 19.4 | 20.1 | 20.8 |
|      | Hi PR   | 220                         | 237  | 250  | 261  | 247  | 266  | 281  | 293  | 281  | 303  | 320  | 333  | 320  | 345  | 364  | 380  | 360   | 388  | 410  | 427  | 398   | 428  | 452  | 472  |
|      | Lo PR   | 105                         | 111  | 121  | 129  | 110  | 117  | 128  | 137  | 115  | 122  | 133  | 142  | 121  | 128  | 140  | 149  | 126   | 134  | 147  | 156  | 131   | 139  | 152  | 162  |
|      | MBh     | 55.0                        | 56.2 | 60.1 | 64.2 | 53.8 | 54.9 | 58.7 | 62.7 | 52.5 | 53.6 | 57.3 | 61.2 | 51.2 | 52.3 | 55.9 | 59.7 | 48.6  | 49.7 | 53.1 | 56.8 | 45.1  | 46.0 | 49.2 | 52.6 |
|      | S/T     | 0.96                        | 0.90 | 0.74 | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.96 | 0.78 | 0.58 | 1.00 | 1.00 | 0.81 | 0.60 | 1.00  | 1.00 | 0.84 | 0.63 | 1.00  | 1.00 | 0.85 | 0.63 |
|      | ΔT      | 22                          | 21   | 18   | 14   | 22   | 21   | 18   | 15   | 21   | 21   | 18   | 15   | 21   | 21   | 18   | 15   | 20    | 20   | 18   | 15   | 18    | 19   | 17   | 14   |
|      | kW      | 3.65                        | 3.72 | 3.83 | 3.95 | 3.91 | 3.99 | 4.11 | 4.23 | 4.14 | 4.23 | 4.35 | 4.49 | 4.34 | 4.43 | 4.57 | 4.72 | 4.52  | 4.61 | 4.75 | 4.91 | 4.66  | 4.76 | 4.91 | 5.07 |
|      | Amps    | 13.7                        | 14.0 | 14.4 | 15.0 | 14.8 | 15.1 | 15.6 | 16.2 | 16.0 | 16.4 | 17.0 | 17.6 | 17.1 | 17.5 | 18.1 | 18.8 | 18.2  | 18.7 | 19.3 | 20.0 | 19.3  | 19.8 | 20.4 | 21.2 |
|      | Hi PR   | 225                         | 242  | 255  | 266  | 252  | 271  | 287  | 299  | 287  | 309  | 326  | 340  | 327  | 352  | 371  | 387  | 368   | 396  | 418  | 436  | 406   | 437  | 462  | 481  |
|      | Lo PR   | 107                         | 113  | 124  | 132  | 113  | 120  | 131  | 139  | 117  | 125  | 136  | 145  | 123  | 131  | 143  | 152  | 129   | 137  | 150  | 159  | 133   | 142  | 155  | 165  |
| 1750 | MBh     | 54.6                        | 55.7 | 58.3 | 62.2 | 53.4 | 54.4 | 57.0 | 60.8 | 52.1 | 53.1 | 55.6 | 59.3 | 50.8 | 51.8 | 54.3 | 57.9 | 48.3  | 49.2 | 51.6 | 55.0 | 44.7  | 45.6 | 47.8 | 50.9 |
|      | S/T     | 0.97                        | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.93 | 0.75 | 1.00  | 1.00 | 0.96 | 0.78 | 1.00  | 1.00 | 0.97 | 0.79 |
|      | ΔT      | 28                          | 27   | 26   | 22   | 28   | 28   | 26   | 23   | 27   | 28   | 26   | 23   | 27   | 27   | 26   | 23   | 25    | 26   | 26   | 23   | 23    | 24   | 24   | 21   |
|      | kW      | 3.63                        | 3.70 | 3.81 | 3.93 | 3.89 | 3.97 | 4.09 | 4.21 | 4.12 | 4.20 | 4.33 | 4.47 | 4.32 | 4.41 | 4.55 | 4.69 | 4.49  | 4.59 | 4.73 | 4.88 | 4.64  | 4.74 | 4.89 | 5.04 |
|      | Amps    | 13.6                        | 13.9 | 14.4 | 14.9 | 14.7 | 15.0 | 15.5 | 16.1 | 15.9 | 16.3 | 16.8 | 17.5 | 17.0 | 17.4 | 18.0 | 18.7 | 18.1  | 18.5 | 19.2 | 19.9 | 19.2  | 19.6 | 20.3 | 21.1 |
|      | Hi PR   | 223                         | 240  | 254  | 265  | 251  | 270  | 285  | 297  | 285  | 307  | 324  | 338  | 324  | 349  | 369  | 385  | 365   | 393  | 415  | 433  | 403   | 434  | 458  | 478  |
|      | Lo PR   | 106                         | 113  | 123  | 131  | 112  | 119  | 130  | 138  | 116  | 124  | 135  | 144  | 122  | 130  | 142  | 151  | 128   | 136  | 149  | 158  | 132   | 141  | 154  | 164  |
|      | MBh     | 54.1                        | 55.1 | 57.8 | 61.6 | 52.8 | 53.9 | 56.4 | 60.2 | 51.6 | 52.6 | 55.1 | 58.8 | 50.3 | 51.3 | 53.7 | 57.3 | 47.8  | 48.7 | 51.0 | 54.5 | 44.3  | 45.1 | 47.3 | 50.4 |
|      | S/T     | 0.95                        | 0.92 | 0.83 | 0.67 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.98 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00  | 1.00 | 0.94 | 0.77 | 1.00  | 1.00 | 0.95 | 0.77 |
|      | ΔT      | 29                          | 29   | 27   | 23   | 29   | 29   | 27   | 24   | 29   | 29   | 27   | 24   | 28   | 29   | 28   | 24   | 27    | 28   | 27   | 24   | 25    | 26   | 25   | 22   |
| 1625 | kW      | 3.62                        | 3.70 | 3.80 | 3.92 | 3.88 | 3.96 | 4.08 | 4.20 | 4.11 | 4.19 | 4.32 | 4.46 | 4.31 | 4.40 | 4.54 | 4.68 | 4.48  | 4.57 | 4.72 | 4.87 | 4.63  | 4.73 | 4.87 | 5.03 |
|      | Amps    | 13.6                        | 13.9 | 14.3 | 14.8 | 14.6 | 15.0 | 15.5 | 16.0 | 15.9 | 16.3 | 16.8 | 17.4 | 17.0 | 17.4 | 18.0 | 18.6 | 18.0  | 18.5 | 19.1 | 19.8 | 19.1  | 19.6 | 20.2 | 21.0 |
|      | Hi PR   | 223                         | 240  | 253  | 264  | 250  | 269  | 284  | 296  | 284  | 306  | 323  | 337  | 324  | 348  | 368  | 383  | 364   | 392  | 414  | 431  | 402   | 433  | 457  | 477  |
|      | Lo PR   | 106                         | 112  | 123  | 131  | 112  | 119  | 130  | 138  | 116  | 123  | 135  | 143  | 122  | 130  | 141  | 151  | 128   | 136  | 148  | 158  | 132   | 140  | 153  | 163  |
|      | MBh     | 56.0                        | 57.1 | 59.8 | 63.8 | 54.7 | 55.8 | 58.4 | 62.3 | 53.4 | 54.4 | 57.0 | 60.8 | 52.1 | 53.1 | 55.6 | 59.3 | 49.5  | 50.4 | 52.8 | 56.4 | 45.8  | 46.7 | 48.9 | 52.2 |
|      | S/T     | 1.00                        | 0.98 | 0.88 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.97 | 0.78 | 1.00  | 1.00 | 1.00 | 0.81 | 1.00  | 1.00 | 1.00 | 0.82 |
|      | ΔT      | 23                          | 23   | 22   | 19   | 22   | 23   | 22   | 19   | 22   | 22   | 22   | 19   | 21   | 22   | 22   | 19   | 20    | 21   | 22   | 19   | 19    | 19   | 20   | 17   |
|      | kW      | 3.68                        | 3.75 | 3.86 | 3.98 | 3.94 | 4.02 | 4.14 | 4.27 | 4.17 | 4.26 | 4.39 | 4.53 | 4.38 | 4.47 | 4.61 | 4.75 | 4.55  | 4.65 | 4.79 | 4.95 | 4.70  | 4.80 | 4.95 | 5.11 |
|      | Amps    | 13.8                        | 14.1 | 14.6 | 15.1 | 14.9 | 15.3 | 15.8 | 16.3 | 16.2 | 16.6 | 17.1 | 17.7 | 17.3 | 17.7 | 18.3 | 19.0 | 18.4  | 18.8 | 19.5 | 20.2 | 19.5  | 19.9 | 20.6 | 21.4 |
|      | Hi PR   | 227                         | 244  | 258  | 269  | 255  | 274  | 289  | 302  | 290  | 312  | 329  | 343  | 330  | 355  | 375  | 391  | 371   | 400  | 422  | 440  | 410   | 441  | 466  | 486  |
|      | Lo PR   | 108                         | 115  | 125  | 133  | 114  | 121  | 132  | 141  | 118  | 126  | 137  | 146  | 124  | 132  | 144  | 154  | 130   | 138  | 151  | 161  | 135   | 143  | 156  | 167  |

IDB: Entering Indoor Dry Bulb Temperature  
 High and low pressures are measured at the liquid and suction service valves.  
 Shaded area reflects AHRI conditions  
 Amps = outdoor unit amps (comp.+fan)  
 kW = Total system power

# AIR RATINGS

| Outdoor Unit    | Indoor Units            |                | Cooling Ratings |         |        |       | CFM   | AHRF #  |
|-----------------|-------------------------|----------------|-----------------|---------|--------|-------|-------|---------|
|                 | Coils/Air Handlers      | Furnaces       | Total □         | Sens. □ | SEER □ | EER □ |       |         |
| GSX16<br>0181P* | ASPT24B14A*             |                | 17,600          | 13,000  | 16.0   | 13.0  | 600   | 5756171 |
|                 | AWUF31XX16A*            |                | 17,600          | 13,000  | 15.0   | 12.5  | 600   | 5753205 |
|                 | AWUF31XX16A*+TXV        |                | 17,600          | 13,000  | 15.0   | 12.5  | 600   | 5753075 |
|                 | AWUF32XX16A*            |                | 17,600          | 13,000  | 15.0   | 12.5  | 640   | 5753206 |
|                 | AWUF32XX16A*+TXV        |                | 17,600          | 13,000  | 15.0   | 12.5  | 640   | 5753076 |
|                 | CA* F3636* 6D* +EEP+TXV |                | 18,000          | 13,300  | 14.5   | 12.0  | 650   | 5753012 |
|                 | CA* F3636* 6D* +TXV     | G* EB0603B* B* | 18,000          | 13,300  | 16.0   | 13.0  | 600   | 5753016 |
|                 | CA* F3636* 6D* +TXV     | GME950403BXA*  | 18,000          | 13,300  | 16.0   | 13.0  | 575   | 5753018 |
|                 | CA* F3743* 6D* +EEP+TXV |                | 18,400          | 13,600  | 15.0   | 12.5  | 600   | 5753013 |
|                 | CHFF3636B6C* +EEP+TXV   |                | 18,000          | 13,300  | 14.5   | 12.0  | 600   | 5753014 |
|                 | CHFF3636B6C* +TXV       | G* EB0603B* B* | 18,000          | 13,300  | 16.0   | 13.0  | 600   | 5753017 |
|                 | CHFF3636B6C* +TXV       | GME950403BXA*  | 18,000          | 13,300  | 16.0   | 13.0  | 575   | 5753019 |
|                 | CHFF3743C6B* +EEP+TXV   |                | 18,200          | 13,500  | 15.0   | 12.5  | 600   | 5753015 |
| GSX16<br>0241P* | ASPT30C14A*             |                | 23,600          | 17,700  | 16.0   | 13.0  | 750   | 5756172 |
|                 | AWUF31XX16A*            |                | 24,000          | 18,000  | 15.0   | 12.5  | 750   | 5753207 |
|                 | AWUF31XX16A*+TXV        |                | 24,000          | 18,000  | 15.0   | 12.5  | 750   | 5753077 |
|                 | AWUF32XX16A*            |                | 24,000          | 18,000  | 15.0   | 12.5  | 750   | 5753208 |
|                 | AWUF32XX16A*+TXV        |                | 24,000          | 18,000  | 15.0   | 12.5  | 750   | 5753078 |
|                 | CA* F3636* 6D* +EEP+TXV |                | 23,600          | 17,700  | 14.5   | 12.0  | 750   | 5753020 |
|                 | CA* F3636* 6D* +TXV     | G* EB0603B* B* | 24,000          | 18,000  | 16.0   | 13.0  | 750   | 5753024 |
|                 | CA* F3636* 6D* +TXV     | GME950603BXA*  | 24,000          | 18,000  | 16.0   | 13.0  | 750   | 5753026 |
|                 | CA* F3743* 6D* +EEP+TXV |                | 24,000          | 18,000  | 15.0   | 12.5  | 700   | 5753021 |
|                 | CHFF3636B6C* +EEP+TXV   |                | 23,600          | 17,700  | 14.5   | 12.0  | 750   | 5753022 |
|                 | CHFF3636B6C* +TXV       | G* EB0603B* B* | 24,000          | 18,000  | 16.0   | 13.0  | 750   | 5753025 |
|                 | CHFF3636B6C* +TXV       | GME950603BXA*  | 24,000          | 18,000  | 16.0   | 13.0  | 750   | 5753027 |
|                 | CHFF3743C6B* +EEP+TXV   |                | 24,000          | 18,000  | 15.0   | 12.5  | 750   | 5753023 |
| GSX16<br>0301P* | ASPT30C14A*             |                | 27,600          | 21,000  | 16.0   | 13.0  | 850   | 5756173 |
|                 | ASPT36C14A*             |                | 28,000          | 21,400  | 16.0   | 13.0  | 900   | 5756174 |
|                 | AWUF31XX16A*            |                | 28,000          | 21,400  | 15.0   | 12.5  | 850   | 5753209 |
|                 | AWUF31XX16A*+TXV        |                | 28,000          | 21,400  | 15.0   | 12.5  | 850   | 5753079 |
|                 | AWUF32XX16A*            |                | 28,000          | 21,400  | 15.0   | 12.5  | 850   | 5753210 |
|                 | AWUF32XX16A*+TXV        |                | 28,000          | 21,400  | 15.0   | 12.5  | 850   | 5753080 |
|                 | AWUF37XX16B*            |                | 28,400          | 21,600  | 15.0   | 12.5  | 950   | 5753211 |
|                 | AWUF37XX16B*+TXV        |                | 28,400          | 21,600  | 15.0   | 12.5  | 950   | 5753081 |
|                 | CA* F3743* 6D* +EEP+TXV |                | 29,000          | 22,200  | 14.5   | 12.0  | 1,000 | 5753028 |
|                 | CA* F3743* 6D* +TXV     | G* EB0805C* B* | 29,000          | 22,200  | 16.0   | 13.0  | 1,050 | 5753032 |
|                 | CA* F3743* 6D* +TXV     | GME950805CXA*  | 29,000          | 22,200  | 16.0   | 13.0  | 1,050 | 5753034 |
|                 | CA* F4961* 6D* +EEP+TXV |                | 29,400          | 22,400  | 15.0   | 12.5  | 1,000 | 5753029 |
|                 | CHFF3743C6B* +EEP+TXV   |                | 29,000          | 22,200  | 14.5   | 12.0  | 1,000 | 5753030 |
|                 | CHFF3743C6B* +TXV       | G* EB0805C* B* | 29,000          | 22,200  | 16.0   | 13.0  | 1,050 | 5753033 |
|                 | CHFF3743C6B* +TXV       | GME950805CXA*  | 29,000          | 22,200  | 16.0   | 13.0  | 1,050 | 5753035 |
|                 | CHFF4860D6D* +EEP+TXV   |                | 29,400          | 22,400  | 15.0   | 12.5  | 900   | 5753031 |

# AHR Ratings (Cont.)

| Outdoor Unit                | Indoor Units          |                | Cooling Ratings |                 |                |               | CFM   | AHRI #  |
|-----------------------------|-----------------------|----------------|-----------------|-----------------|----------------|---------------|-------|---------|
|                             | Coils/Air Handlers    | Furnaces       | Total $\square$ | Sens. $\square$ | SEER $\square$ | EER $\square$ |       |         |
| GSX16<br>0361F <sup>1</sup> | ASPT42D14A*           |                | 35,000          | 27,200          | 16.0           | 13.0          | 1,175 | 5756175 |
|                             | AWUF37XX16B*          |                | 34,000          | 26,400          | 14.0           | 12.0          | 1,150 | 5753212 |
|                             | AWUF37XX16B*+TXV      |                | 33,000          | 25,600          | 14.5           | 12.0          | 1,000 | 5753044 |
|                             | CA* F4860*6D*+EEP+TXV |                | 34,800          | 27,000          | 14.5           | 12.0          | 1,200 | 5753036 |
|                             | CA* F4860*6D*+TXV     | G* E80805C* B* | 34,000          | 26,400          | 16.0           | 13.0          | 1,000 | 5753040 |
|                             | CA* F4860*6D*+TXV     | GME950805CXA*  | 34,000          | 26,400          | 16.0           | 13.0          | 1,000 | 5753042 |
|                             | CA* F4961*6D*+EEP+TXV |                | 35,000          | 27,200          | 15.0           | 12.5          | 1,100 | 5753037 |
|                             | CHFF3743C6B*+EEP+TXV  |                | 34,800          | 27,000          | 14.5           | 12.0          | 1,100 | 5753038 |
|                             | CHFF4860D6D*+EEP+TXV  |                | 35,000          | 27,200          | 15.0           | 12.5          | 1,100 | 5753039 |
|                             | CHFF4860D6D*+TXV      | G* E80805C* B* | 34,000          | 26,400          | 16.0           | 13.0          | 1,000 | 5753041 |
|                             | CHFF4860D6D*+TXV      | GME950805CXA*  | 34,000          | 26,400          | 16.0           | 13.0          | 1,000 | 5753043 |
| GSX16<br>0421F <sup>1</sup> | ASPT42D14A*           |                | 41,000          | 31,200          | 16.0           | 13.0          | 1,350 | 5756176 |
|                             | CA* F4860*6D*+EEP+TXV |                | 42,000          | 32,000          | 14.5           | 12.0          | 1,400 | 5753045 |
|                             | CA* F4961*6D*+EEP+TXV |                | 42,000          | 32,000          | 15.0           | 12.5          | 1,300 | 5753046 |
|                             | CA* F4961*6D*+TXV     | G* E80805D* A* | 40,000          | 30,400          | 16.0           | 13.0          | 1,300 | 5753049 |
|                             | CA* F4961*6D*+TXV     | GME951005DXA*  | 40,000          | 30,400          | 16.0           | 13.0          | 1,200 | 5753051 |
|                             | CHFF3743C6B*+EEP+TXV  |                | 41,500          | 31,600          | 14.5           | 12.0          | 1,300 | 5753047 |
|                             | CHFF4860D6D*+EEP+TXV  |                | 41,000          | 31,200          | 15.0           | 12.5          | 1,200 | 5753048 |
|                             | CHFF4860D6D*+TXV      | G* E80805D* A* | 40,000          | 30,400          | 16.0           | 13.0          | 1,300 | 5753050 |
|                             | CHFF4860D6D*+TXV      | GME951005DXA*  | 40,000          | 30,400          | 16.0           | 13.0          | 1,200 | 5753052 |
| GSX16<br>0481F <sup>1</sup> | ASPT48D14A*           |                | 45,000          | 34,200          | 16.0           | 13.0          | 1,400 | 5756177 |
|                             | CA* F4961*6D*+EEP+TXV |                | 45,500          | 34,600          | 14.5           | 12.0          | 1,500 | 5753053 |
|                             | CA* F4961*6D*+TXV     | G* E80805D* A* | 44,500          | 34,000          | 16.0           | 13.0          | 1,300 | 5753055 |
|                             | CA* F4961*6D*+TXV     | GME951005DXA*  | 45,000          | 34,200          | 16.0           | 13.0          | 1,400 | 5753057 |
|                             | CHFF4860D6D*+EEP+TXV  |                | 45,500          | 34,600          | 14.5           | 12.0          | 1,500 | 5753054 |
|                             | CHFF4860D6D*+TXV      | G* E80805D* A* | 44,500          | 34,000          | 16.0           | 13.0          | 1,300 | 5753056 |
|                             | CHFF4860D6D*+TXV      | GME951005DXA*  | 45,000          | 34,200          | 16.0           | 13.0          | 1,400 | 5753058 |
| GSX16<br>0601F <sup>1</sup> | ASPT60D14A*           |                | 54,000          | 41,500          | 16.0           | 13.0          | 1,600 | 5756178 |
|                             | CA* F4860*6D*+EEP+TXV |                | 53,000          | 40,500          | 14.5           | 12.0          | 1,675 | 5753060 |
|                             | CA* F4961*6D*+EEP+TXV |                | 54,000          | 41,500          | 15.0           | 12.5          | 1,675 | 5753059 |
|                             | CA* F4961*6D*+TXV     | G* E80805D* A* | 53,000          | 40,500          | 16.0           | 13.0          | 1,500 | 5753062 |
|                             | CA* F4961*6D*+TXV     | GME951005DXA*  | 53,000          | 40,500          | 16.0           | 13.0          | 1,500 | 5753064 |
|                             | CHFF4860D6D*+EEP+TXV  |                | 53,500          | 41,000          | 15.0           | 12.5          | 1,675 | 5753061 |
|                             | CHFF4860D6D*+TXV      | G* E80805D* A* | 53,000          | 40,500          | 16.0           | 13.0          | 1,500 | 5753063 |
|                             | CHFF4860D6D*+TXV      | GME951005DXA*  | 53,000          | 40,500          | 16.0           | 13.0          | 1,500 | 5753065 |

<sup>1</sup> BTU/h

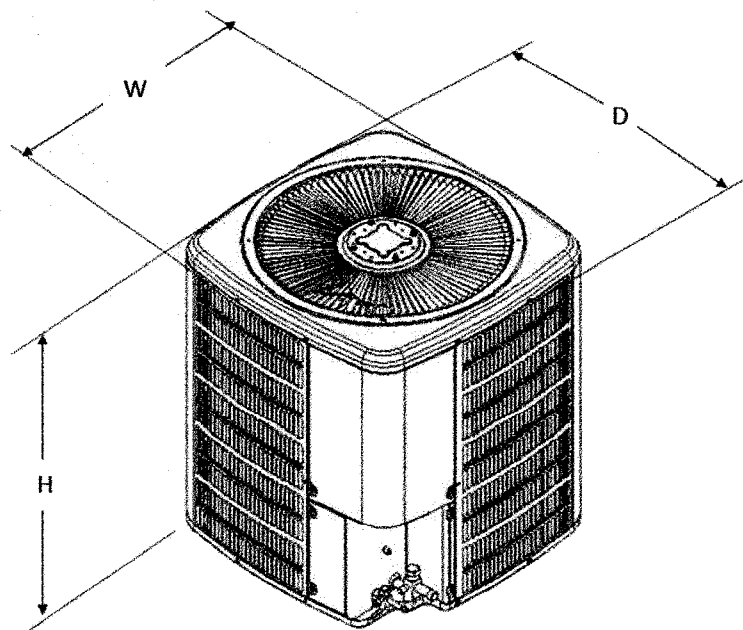
$\square$  Seasonal Energy Efficiency Ratio; Calculated per AHRI 210/240 @ 80°F/ 67°F/ 95°F

$\square$  Energy Efficiency Ratio @ 80°F/ 67°F/ 95°F

## Notes

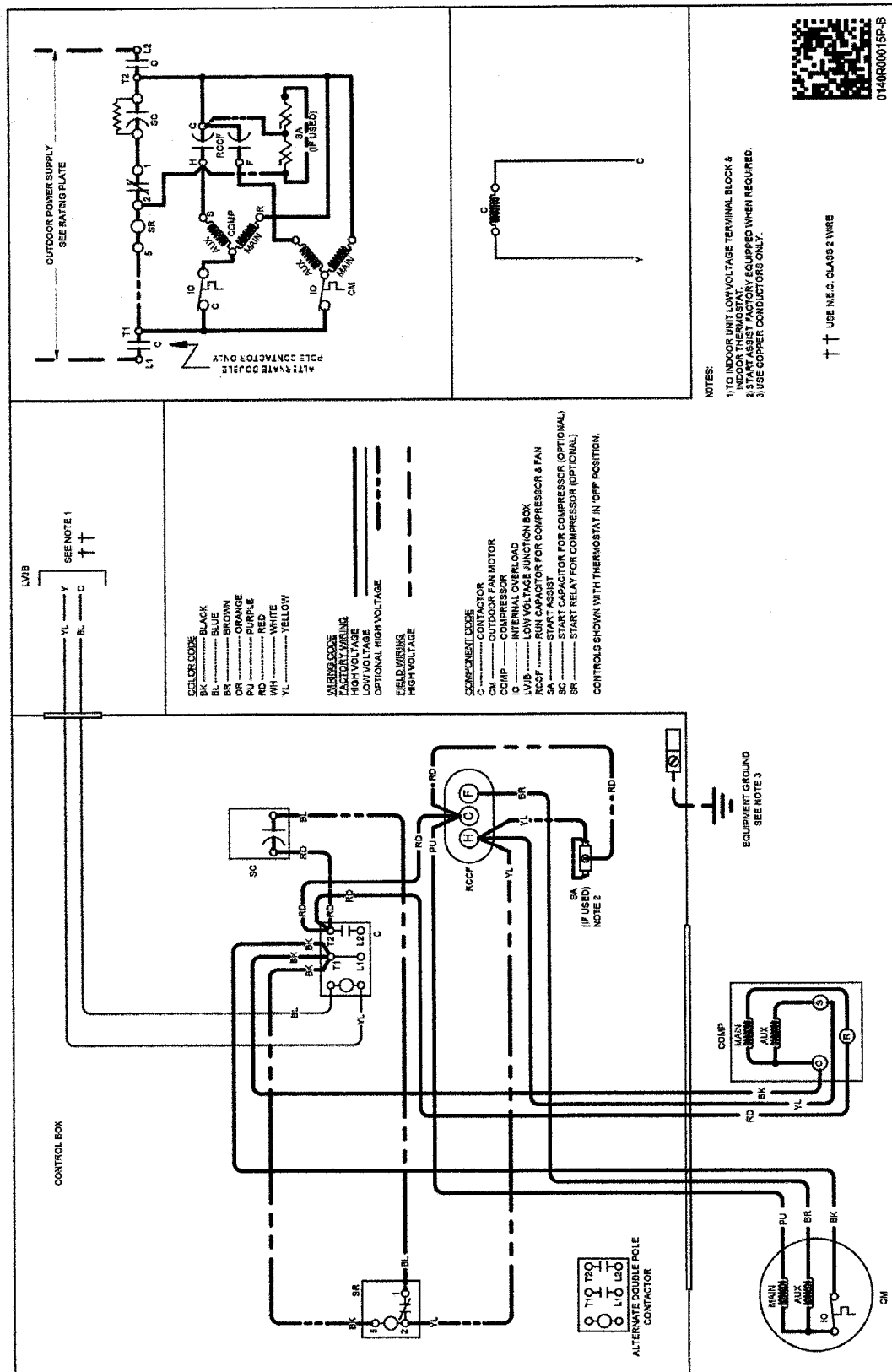
- Always check the S&R plate for electrical data on the unit being installed.
- When matching the outdoor unit to the indoor unit, use the piston supplied with the outdoor unit or that specified on the piston kit chart supplied with the indoor unit.
- EEP - Order from Service Dept. Part No. B13707-38 or new Solid State Board B13707-35S Part No. B13707-38 is not interchangeable with B13707-35S The Goodman Gas Furnace contains the EEP cooling time delay

## DIMENSIONS



| MODEL       | DIMENSIONS |     |     |
|-------------|------------|-----|-----|
|             | W"         | D"  | H"  |
| GSX160181** | 29         | 29  | 32¼ |
| GSX160241** | 29         | 29  | 32¼ |
| GSX160301** | 29         | 29  | 36¼ |
| GSX160361** | 29         | 29  | 38¼ |
| GSX160421** | 35½        | 35½ | 36¼ |
| GSX160481** | 35½        | 35½ | 36¼ |
| GSX160601** | 35½        | 35½ | 38¼ |

# WIRING DIAGRAM — GSX160181-48F\*



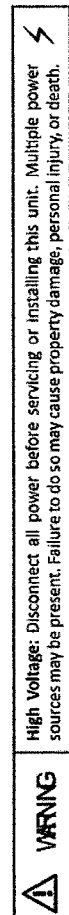
0140R0001SP-B

†† USE N.E.C. CLASS 2 WIRE

**WARNING**

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

## Accessories

| Model               | Description                     | GSK16<br>018F <sup>2</sup> | GSK16<br>024F <sup>2</sup> | GSK16<br>030F <sup>2</sup> | GSK16<br>036F <sup>2</sup> | GSK16<br>042F <sup>2</sup> | GSK16<br>048F <sup>2</sup> | GSK16<br>060F <sup>2</sup> |
|---------------------|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| ABK-20              | Anchor Bracket Kit <sup>^</sup> |                            | X                          | X                          | X                          | X                          | X                          | X                          |
| ABK-21              | Anchor Bracket Kit <sup>^</sup> | X                          |                            |                            |                            |                            |                            |                            |
| ASC-01              | Anti-Short Cycle Kit            | X                          | X                          | X                          | X                          | X                          | X                          | X                          |
| CSR-U-1             | Hard-start Kit                  | X                          | X                          | X                          | X                          | X                          | X                          | X                          |
| FSK01A <sup>1</sup> | Freeze Protection Kit           | X                          | X                          | X                          | X                          | X                          | X                          | X                          |
| LSK02A <sup>2</sup> | Liquid Line Solenoid Kit        | X                          | X                          | X                          | X                          | X                          | X                          | X                          |
| TXV-30 <sup>2</sup> | TXV Kit                         | X                          | X                          | X                          |                            |                            |                            |                            |
| TXV-42 <sup>2</sup> | TXV Kit                         |                            |                            |                            | X                          | X                          |                            |                            |
| TXV-48 <sup>2</sup> | TXV Kit                         |                            |                            |                            |                            |                            | X                          |                            |
| TXV-60 <sup>2</sup> | TXV Kit                         |                            |                            |                            |                            |                            |                            | X                          |

<sup>^</sup> Contains 20 brackets; four brackets needed to anchor unit to pad

☐ Installed on indoor coil

☐ Field-installed, non-bleed, expansion valve kit — Condensing units and heat pumps with reciprocating compressors require the use of start-assist components when used in conjunction with an indoor coil using a non-bleed thermal expansion valve refrigerant metering device or liquid line solenoid kit.

NOTES

OFFICE DATE RECEIVED: \_\_\_\_\_

| VIII. PRIOR APPROVALS CHECKLIST<br>(office use only)                 | LOCAL APPROVAL    |            | COUNTY APPROVAL   |            | REGIONAL APPROVAL |            | STATE APPROVAL    |            | COMMENTS    |
|----------------------------------------------------------------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------|
|                                                                      | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date | Prelimin. Initial | Final Date |             |
| <input checked="" type="checkbox"/> Zoning Officer                   | SC                | 9/25/13    |                   |            |                   |            |                   |            | 24-13-01220 |
| <input type="checkbox"/> Planning Board                              |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Zoning Board                                |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Sewer Authority                             |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Water Authority                             |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Police Department                           |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Health Department                           |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Soil Conservation                           |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> N.J. Department of Community Affairs        |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> N.J. Department of Transportation           |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> N.J. Department of Environmental Protection |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/> Utility Dig No.                             |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/>                                             |                   |            |                   |            |                   |            |                   |            |             |
| <input type="checkbox"/>                                             |                   |            |                   |            |                   |            |                   |            |             |

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

| Name of Code & Edition | Name of Code & Edition         |
|------------------------|--------------------------------|
| Building _____         | Energy _____                   |
| Electrical _____       | Barrier Free _____             |
| Plumbing _____         | Flood Hazard _____             |
| Fire Protection _____  | As Built Elevation Cert. _____ |
| Mechanical _____       | Other _____                    |

X. CERTIFICATES ISSUED (office use only)

|                                                               | DATE ISSUED | DATE EXPIRED | DATE REISSUED | DATE EXPIRED |
|---------------------------------------------------------------|-------------|--------------|---------------|--------------|
| <input type="checkbox"/> Temporary Certificate of Occupancy   | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Temporary Certificate of Compliance  | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Continued Certificate of Occupancy   | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Compliance            | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Occupancy             | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Certificate of Approval              | No. _____   | _____        | _____         | _____        |
| <input type="checkbox"/> Lead Abatement Clearance Certificate | No. _____   | _____        | _____         | _____        |

**CERTIFICATION IN LIEU OF OATH**

**I. OWNER SECTION (to be completed if the applicant is the owner in fee)**

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building                      C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical                      C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**II. AGENT SECTION (to be completed if the applicant is not the owner in fee)**

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

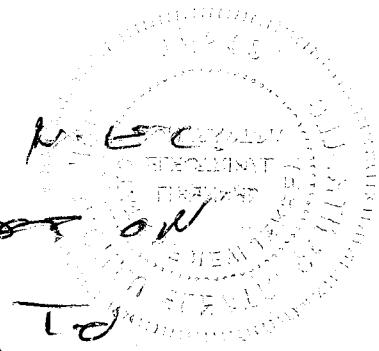
Agent Name N P Gilman Contracting LLC  
Address 810 MAIN AVENUE  
BAY HEAD NJ 08742  
Telephone (237) 966-2332  
Signature Dickens P. Gilman

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

2-14-14

CSGT bms tower M. E. C. 1000  
Service Switch to ~~MOB~~ ON  
Line Side OF Switch To

@tech



12-2-13-mt

no DEERS

Wash Deer

Ⓟ tech