

BLOCK 1170 LOT 116 QUALIFICATION CODE 008-005377 ADDRESS (SITE) 970 Route 70 PERMIT NO. 08-3718



# CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

**I. IDENTIFICATION**

1. Proposed Work Site at: 970 Route 70

2. Name of Owner in Fee: Jaco Management Co.  
Tel. (850) 784-3900 e-mail JohnWDO@gmail.com  
Address 2816A W. 11th St. Panama City, FL 32401  
street municipality zip code

3. Ownership in Fee: Public ☒ Private ☒

4. Principal Contractor: Patrick T. Kerwin, Inc. Tel. (732) 295-2167  
Address 11624 Beaver Dam Rd. Point Pleasant, NJ 08742 e-mail KerwinHVAC@aol.com

License No. OR, if new home, Builder Reg. No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

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

Federal Emp. ID No. 222354524 FAX: (\_\_\_\_) \_\_\_\_\_

5. Architect or Engineer \_\_\_\_\_ Contact \_\_\_\_\_  
Address \_\_\_\_\_ e-mail \_\_\_\_\_  
Tel. (\_\_\_\_) \_\_\_\_\_ FAX: (\_\_\_\_) \_\_\_\_\_

6. Responsible Person in Charge once Work has Begun Kerwin - Erin Bleau  
Tel. (732) 295-2167 FAX: (732) 899-5521

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

|                                   | Update         | Update |
|-----------------------------------|----------------|--------|
| 1. Building                       | \$ <u>395</u>  |        |
| 2. Electrical                     | \$ <u>300</u>  |        |
| 3. Plumbing                       |                |        |
| 4. Fire Protection                |                |        |
| 5. Elevator Devices               |                |        |
| 6. Subtotal                       |                |        |
| 7. Less 20% for State Plan Review | \$ <u>11</u>   |        |
| 8. Subtotal                       |                |        |
| 9. State Permit Surcharge Fee     |                |        |
| 10. Subtotal                      |                |        |
| 11. Cert. of Occupancy            |                |        |
| 12. Other                         | \$ <u>2032</u> |        |
| 13. TOTAL                         |                |        |

**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

**FOR OFFICE USE ONLY (Optional)**

| Est. Cost  | Plans Rec'd By  | Date Rec'd      | Rejection Date | Approval Date   | Re-viewer       | Resubmission Dates Approval | Rejection | Re-viewer |
|------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------------------|-----------|-----------|
|            | <u>11/19/08</u> | <u>11/19/08</u> |                | <u>12308</u>    | <u>12-19-08</u> |                             |           |           |
|            |                 |                 |                | <u>11-24-08</u> | <u>1-14-09</u>  |                             |           |           |
|            |                 |                 |                | <u>12-20-08</u> |                 |                             |           |           |
| TOTAL COST |                 |                 |                |                 |                 |                             |           |           |

**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  
8. ☐ Smoke Control Systems in Open Wells  
9. ☐ Underground Storage Tanks  
10. ☐ Swimming Pools, Spas and Hot Tubs  
11. ☐ LPGas Tanks

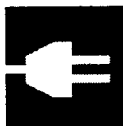
called 12/1/08  
Kerwin

COMMERCIAL





# ELECTRICAL SUBCODE TECHNICAL SECTION



Date Received  
Control #

Date Issued  
Permit #

08-3718  
12/16/08

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

Block 1170 Lot 116 Qualification Code \_\_\_\_\_  
Work Site Location 970 Route 70

Owner in Fee: JACO Management Co.

Tel. ~~(772)~~ 850-784-3900 e-mail \_\_\_\_\_

Address 2816 A W. 11th St. Panama City, FL 32401  
street municipality zip code

Contractor: HORIZON ELECTRIC Tel. (772) 920-5086

Address 50 WOODLAND DR BRICIS N.J. 08723 e-mail \_\_\_\_\_

Contractor License No. 12803 Exp. Date 03-09

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

Federal Emp. ID No. 22-3446627 FAX: ( ) \_\_\_\_\_

## B. ELECTRICAL CHARACTERISTICS

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

[ ] Pole/Pad # \_\_\_\_\_ [ ] Temporary [ ] Other \_\_\_\_\_

Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_

Est. Cost of Elec. Work \$ \$6,000.00

| JOB SUMMARY (Office Use Only)                                                                                                |                                             |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|--|--|--|
| PLAN REVIEW                                                                                                                  | INSPECTIONS                                 |  |  |  |  |
|                                                                                                                              | Dates (Month/Day)                           |  |  |  |  |
|                                                                                                                              | Type: Failure Failure Approval Initial      |  |  |  |  |
| <input checked="" type="checkbox"/> No Plans Required                                                                        | Rough                                       |  |  |  |  |
| <input type="checkbox"/> Partial -Underslab Utilities Approved                                                               | Barrier-Free                                |  |  |  |  |
| Date: _____ Approved by: _____                                                                                               | Trench                                      |  |  |  |  |
| <input type="checkbox"/> Electric Plans Approved                                                                             | Temp. Serv.                                 |  |  |  |  |
| Date: <u>12/30/08</u> Approved by: <u>[Signature]</u>                                                                        | Constr. Serv.                               |  |  |  |  |
| Joint Plan Review Required:                                                                                                  | TCO                                         |  |  |  |  |
| <input type="checkbox"/> Bldg. <input type="checkbox"/> Plumb. <input type="checkbox"/> Fire. <input type="checkbox"/> Elev. | Other                                       |  |  |  |  |
| SUBCODE APPROVAL for PERMIT                                                                                                  | Service                                     |  |  |  |  |
| Date: _____                                                                                                                  | Final                                       |  |  |  |  |
| Approved by: _____                                                                                                           | Barrier-Free                                |  |  |  |  |
| SUBCODE APPROVAL for CERTIFICATE                                                                                             | Temp. Cut-in-Card Date Issued               |  |  |  |  |
| <input type="checkbox"/> CO <input checked="" type="checkbox"/> CCO <input type="checkbox"/> CA                              | Final Cut-in-Card Date Issued               |  |  |  |  |
| Date: <u>12/19/08</u>                                                                                                        | Annual Pool Inspection                      |  |  |  |  |
| Approved by: <u>[Signature]</u>                                                                                              | Date of Grounding and Bonding Certification |  |  |  |  |

## 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's Signature/Contractor's Seal and Signature

☒ Licensed Elec. Contractor [ ] Certif'd Landscape Irrigation Contr [ ] Exempt Applicant

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

REPLACE EXISTING 18 ROOFTOP HEAT/  
AIR PACKAGE UNITS  
LIKE FOR LIKE

| QTY.  | SIZE  | ITEMS                      |
|-------|-------|----------------------------|
| _____ | _____ | Lighting Fixtures          |
| _____ | _____ | Receptacles                |
| _____ | _____ | Switches                   |
| _____ | _____ | Detectors                  |
| _____ | _____ | Light Poles                |
| _____ | _____ | Motors—Fract. HP           |
| _____ | _____ | Emergency & Exit Lights    |
| _____ | _____ | Communications Points      |
| _____ | _____ | Alarm Devices/F.A.C. Panel |

### TOTAL NUMBERS

|       |                                   |
|-------|-----------------------------------|
| _____ | Pool Permit/with UW Lights        |
| _____ | Storable 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       |
| 18    | ROOFTOP HEAT/AIR<br>PACKAGE UNITS |

SEE SEPARATE  
SHEET FOR  
14.1.

### FEE (Office Use Only)

\$ \_\_\_\_\_

COMMERCIAL

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

**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(e)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 Patrick T. Kerwin, Inc.  
Address 1624 Beaver Dam Rd.  
Point Pleasant, NJ 08742  
Telephone (732) 295-2167  
Signature Erin M. Blau

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



## Electrical Data

Table 128. Unit Wiring — Standard Efficiency

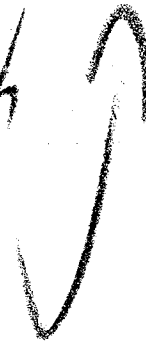
| Tons               | Unit Model Number | Voltage Range | Standard Indoor Fan Motor <sup>(1)</sup> |                                      | Oversized Indoor Fan Motor |                                      |
|--------------------|-------------------|---------------|------------------------------------------|--------------------------------------|----------------------------|--------------------------------------|
|                    |                   |               | MCA                                      | Max Fuse Size or Max Circuit Breaker | MCA                        | Max Fuse Size or Max Circuit Breaker |
| 3                  | T/YSC036E1        | 187-253       | 27.2                                     | 40                                   | —                          | —                                    |
|                    | T/YSC036E3        | 187-253       | 21.4                                     | 30                                   | —                          | —                                    |
|                    | T/YSC036E4        | 414-506       | 10.1                                     | 15                                   | —                          | —                                    |
|                    | T/YSC036EW        | 517-633       | 8.0                                      | 15                                   | —                          | —                                    |
| 4                  | T/YSC048E1        | 187-253       | 35.2                                     | 50                                   | —                          | —                                    |
|                    | T/YSC048E3        | 187-253       | 25.2                                     | 35                                   | —                          | —                                    |
|                    | T/YSC048E4        | 414-506       | 12.5                                     | 15                                   | —                          | —                                    |
|                    | T/YSC048EW        | 517-633       | 9.0                                      | 15                                   | —                          | —                                    |
| 5                  | T/YSC060E1        | 187-253       | 43.8                                     | 70                                   | —                          | —                                    |
|                    | T/YSC060E3        | 187-253       | 29.5                                     | 45                                   | —                          | —                                    |
|                    | T/YSC060E4        | 414-506       | 15.5                                     | 25                                   | 7.1 kW                     | —                                    |
|                    | T/YSC060EW        | 517-633       | 10.1                                     | 15                                   | —                          | —                                    |
| 6                  | T/YSC072E3        | 187-253       | 36.5                                     | 50                                   | 37.8                       | 60                                   |
|                    | T/YSC072E4        | 414-506       | 18.2                                     | 25                                   | 18.8                       | 25                                   |
|                    | T/YSC072EW        | 517-633       | 12.7                                     | 20                                   | 13.5                       | 20                                   |
| 7½ <sup>(11)</sup> | T/YSC092E3        | 187-253       | 43.3                                     | 50                                   | 46.4                       | 60                                   |
|                    | T/YSC092E4        | 414-506       | 21.5                                     | 25                                   | 23.0                       | 30                                   |
|                    | T/YSC092EW        | 517-633       | 15.9                                     | 20                                   | 17.1                       | 20                                   |
| 8½                 | T/YSC102E3        | 187-253       | 46.3                                     | 60                                   | 49.4                       | 60                                   |
|                    | T/YSC102E4        | 414-506       | 21.9                                     | 25                                   | 23.4                       | 30                                   |
|                    | T/YSC102EW        | 517-633       | 17.5                                     | 20                                   | 18.7                       | 20                                   |
| 10                 | T/YSC120E3        | 187-253       | 55.9                                     | 60                                   | 59.9                       | 60                                   |
|                    | T/YSC120E4        | 414-506       | 26.5                                     | 35                                   | 28.5                       | 35                                   |
|                    | T/YSC120EW        | 517-633       | 21.2                                     | 25                                   | 22.9                       | 30                                   |
| 3                  | WSC036E1          | 187-253       | 31.2                                     | 45                                   | —                          | —                                    |
|                    | WSC036E3          | 187-253       | 23.8                                     | 35                                   | —                          | —                                    |
|                    | WSC036E4          | 414-506       | 11.4                                     | 15                                   | —                          | —                                    |
|                    | WSC036EW          | 517-633       | 8.8                                      | 15                                   | —                          | —                                    |
| 4                  | WSC048E1          | 187-253       | 38.9                                     | 60                                   | —                          | —                                    |
|                    | WSC048E3          | 187-253       | 27.5                                     | 40                                   | —                          | —                                    |
|                    | WSC048E4          | 414-506       | 12.3                                     | 15                                   | —                          | —                                    |
|                    | WSC048EW          | 517-633       | 9.5                                      | 15                                   | —                          | —                                    |
| 5                  | WSC060E1          | 187-253       | 44.6                                     | 70                                   | —                          | —                                    |
|                    | WSC060E3          | 187-253       | 30.2                                     | 45                                   | —                          | —                                    |
|                    | WSC060E4          | 414-506       | 14.7                                     | 20                                   | —                          | —                                    |
|                    | WSC060EW          | 517-633       | 11.0                                     | 15                                   | —                          | —                                    |

(1) No optional motors available for 3-5 Tons. The standard motor for the single phase models is a Multispeed Direct Drive Motor. The standard motor for the 3-phase models is a Belt Drive Motor.

(11) Dual refrigeration system.

12/19/08

① Unit #19 - TO Close, Plumbing Vent - 10' From  
mechanical INLET - OK 01.05.09 PA

① Tech 



## General Data

(5 Tons Standard Efficiency)

Table 2. General Data — 5 Tons — Standard Efficiency

|                                          | 5 Tons                  |                         |
|------------------------------------------|-------------------------|-------------------------|
|                                          | T/YSC060E1              | T/YSC060E3,4,W          |
| <b>Cooling Performance<sup>(1)</sup></b> |                         |                         |
| Gross Cooling Capacity                   | 59,900                  | 62,270                  |
| SEER <sup>(2)</sup>                      | 13.0                    | 13.0                    |
| Nominal CFM / ARI Rated CFM              | 2,000/2,000             | 2,000/2,000             |
| ARI Net Cooling Capacity                 | 58,000                  | 60,000                  |
| System Power (kW)                        | 5.25                    | 5.46                    |
| <b>Compressor</b>                        |                         |                         |
| Number/Type                              | 1/Scroll                | 1/Scroll                |
| <b>Sound</b>                             |                         |                         |
| Outdoor Sound Rating (dB) <sup>(3)</sup> | 82                      | 82                      |
| <b>Outdoor Coil</b>                      |                         |                         |
| Type                                     | Lanced                  | Lanced                  |
| Tube Size (in.)                          | 0.3125                  | 0.3125                  |
| Face Area (sq. ft.)                      | 10.96                   | 10.96                   |
| Rows/FPI                                 | 3/17                    | 3/17                    |
| <b>Indoor Coil</b>                       |                         |                         |
| Type                                     | Lanced                  | Lanced                  |
| Tube Size (in.)                          | 0.3125                  | 0.3125                  |
| Face Area (sq. ft.)                      | 7.71                    | 7.71                    |
| Rows/FPI                                 | 4/16                    | 4/16                    |
| Refrigerant Control                      | Thermal Expansion Valve | Thermal Expansion Valve |
| Drain Connection Number/Size (in.)       | 1¾ NPT                  | 1¾ NPT                  |
| <b>Outdoor Fan</b>                       |                         |                         |
| Type                                     | Propeller               | Propeller               |
| Number Used/Diameter (in.)               | 1/22                    | 1/22                    |
| Drive Type/No. Speeds                    | Direct/1                | Direct/1                |
| CFM                                      | 3,271                   | 3,245                   |
| Number Motors/HP                         | 0.40                    | 0.40                    |
| Motor RPM                                | 1,075                   | 1,075                   |
| <b>Indoor Fan</b>                        |                         |                         |
| Type (Standard)                          | FC Centrifugal          | FC Centrifugal          |
| Number Used/Diameter (in.)               | 1/11x11                 | 1/11x11                 |
| Drive Type/Number Speeds                 | Direct/5                | Belt/Variable           |
| Motor HP                                 | 1.0                     | 1.0                     |
| Motor Frame Size                         | 48                      | 56                      |
| <b>Filters<sup>(4)</sup></b>             |                         |                         |
| Type Furnished                           | Throwaway               | Throwaway               |
| Number Size Recommended                  | (2) 20x30x1             | (2)20x30x1              |
| <b>Refrigerant Charge <sup>(5)</sup></b> |                         |                         |
| Pounds of R-410A                         | 9.5                     | 9.4                     |



## General Data

(5 Tons Standard Efficiency)

Table 2. (continued) General Data — 5 Tons — Standard Efficiency

|                                          | 5 Tons    |           |
|------------------------------------------|-----------|-----------|
| <b>Heating Performance<sup>(6)</sup></b> |           |           |
| <b>(Gas/Electric Only)</b>               |           |           |
| <b>Heating Input</b>                     |           |           |
| Low Heat Input (Btu)                     | 60,000    | 60,000    |
| Mid Heat Input (Btu)                     | 80,000    | 80,000    |
| High Heat Input (Btu)                    | 130,000   | 130,000   |
| <b>Heating Output</b>                    |           |           |
| Low Heat Input (Btu)                     | 48,000    | 48,000    |
| Mid Heat Input (Btu)                     | 65,000    | 64,000    |
| High Heat Input (Btu)                    | 104,000   | 104,000   |
| <b>AFUE%<sup>(7)</sup></b>               |           |           |
| Low Heat Input (Btu)                     | 78        | 80        |
| Mid Heat Input (Btu)                     | 79        | 80        |
| High Heat Input (Btu)                    | 78        | 80        |
| <b>Steady State Efficiency%</b>          |           |           |
| Low Heat Input (Btu)                     | 80        | 80        |
| Mid Heat Input (Btu)                     | 81        | 80        |
| High Heat Input (Btu)                    | 80        | 80        |
| <b>No. Burners</b>                       |           |           |
| Low Heat Input (Btu)                     | 2         | 2         |
| Mid Heat Input (Btu)                     | 2         | 2         |
| High Heat Input (Btu)                    | 3         | 3         |
| <b>No. Stages</b>                        |           |           |
| Low Heat Input (Btu)                     | 1         | 1         |
| Mid Heat Input (Btu)                     | 1         | 1         |
| High Heat Input (Btu)                    | 1         | 1         |
| <b>Gas Supply Line Pressure</b>          |           |           |
| Natural (minimum/maximum)                | 4.5/10.5  | 4.5/10.5  |
| LP (minimum/maximum)                     | 10.0/13.0 | 10.0/13.0 |
| <b>Gas Connection Pipe Size (in)</b>     |           |           |
| Low Heat                                 | 1/2       | 1/2       |
| Mid Heat                                 | 1/2       | 1/2       |
| High Heat                                | 1/2       | 1/2       |

(1) Cooling performance is rated at 95 F ambient, 80 F entering dry bulb, 67 F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to  $\pm 20\%$  of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz).

(2) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(3) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to Table 109.

(4) Optional 2" pleated filters also available.

(5) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(6) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.

(7) AFUE is rated in accordance with DOE test procedures.



Date Issued \_\_\_\_\_  
Permit # \_\_\_\_\_

08-3718  
12/16/08

Block 1170 Lot 16 Qualification Code \_\_\_\_\_  
Work Site Location 970 Route 70 - VA Clinic

Owner in Fee: JACO management Co.

Tel. (850) 784 3900 e-mail \_\_\_\_\_

Address 2816A W. 11th St Panama City, FL 32401

Contractor: Patrick T. Kerwin, Inc. Tel. (732) 295-2161

Address 1624 Beavers Dam Rd. e-mail Kevin@HYACK  
Point Pleasant, NJ 08742

Contractor License No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 730 898 550

Federal Emp. ID No. 222354524 FAX: (732) 899552

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

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

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

Est. Cost of Plumbing Work \$ 4000.00

## PLAN REVIEW

☐ No Plans Required  
☐ Partial -Underslab Utilities Approved

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

☐ Plumbing Plans Approved  
Date: \_\_\_\_\_ Approved by: \_\_\_\_\_

Joint Plan Review Required:  
☐ Bldg. ☐ Elec. ☐ Fire. ☐ Elev.

SUBCODE APPROVAL for PERMIT

Date: 11-24-58  
Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

[ ] CO [ ] CCO [ ] CA

Date: \_\_\_\_\_

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

## INSPECTIONS

| Type:           | Failure | Failure | Approval | Initial |
|-----------------|---------|---------|----------|---------|
| Slab            |         |         |          |         |
| Rough           |         |         |          |         |
| Water           |         |         |          |         |
| Sewer           |         |         |          |         |
| Fixtures        |         |         |          |         |
| Gas Equipment   |         |         |          |         |
| Gas Piping      |         |         |          |         |
| LPGas Tank      |         |         |          |         |
| Fuel Oil Piping |         |         |          |         |
| Solar           |         |         |          |         |
| TCO _____       |         |         |          |         |
| Final           |         |         |          |         |

### 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's Signature/Contractor's Seal and Signature

☐ Licensed Plumbing Contractor ☒ Exempt Applicant

#### D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

DESCRIPTION OF WORK  
Replace 18 HVAC roof top  
Packaged units.

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  
LPGas Tank  
Steam Boiler  
Hot Water Boiler  
Sewer Pump  
Interceptor/Separator  
Backflow Preventer  
Greasetrap  
Sewer Connection  
Water Service Connection  
Stacks  
Other 18 HVAC  
Other \_\_\_\_\_

## FEE (Office Use Only)

§

|                            |           |              |
|----------------------------|-----------|--------------|
| Administrative Surcharge   | \$        | _____        |
| Minimum Fee                | \$        | _____        |
| State Permit Surcharge Fee | \$        | _____        |
| <b>TOTAL FEE</b>           | <b>\$</b> | <b>_____</b> |



# 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 1170 Lot 16 Qualification Code \_\_\_\_\_  
Work Site Location 970 Route 70 - VA Clinic

Owner in Fee JACO Management Co.

Address 2816A W. 11th St.  
Panama City, FL. 32401

Tel (850) 784-3900

Contractor Patrick T. Kerwin, Inc.

Address 1624 Beaver Dam Rd.  
Point Pleasant, NJ 08742

Tel (732) 295-2167 FAX (732) 899-5521

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

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

Fire Alarm Contractor No. \_\_\_\_\_

Federal Emp. No. 222 354 524

## B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present \_\_\_\_\_ Proposed \_\_\_\_\_ Fire Alarm System: ☐ New OR ☐ Existing

Constr. Class: Present \_\_\_\_\_ Proposed \_\_\_\_\_ Location of Panel: \_\_\_\_\_

Heating System: ☐ New OR ☐ Existing ☐ HVAC Fire Suppression/Standpipe System: \_\_\_\_\_

Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar ☐ New OR ☐ Existing

☐ Other \_\_\_\_\_ Location of Main Control Valve: \_\_\_\_\_

Location: \_\_\_\_\_

Fuel Storage Tank: \_\_\_\_\_

Fuel Type: ☐ Flammable OR ☐ Combustible Capacity \_\_\_\_\_

Total Cost of Fire Protection Work \$ 3000.00

## JOB SUMMARY (Office Use Only)

### PLAN REVIEW

☒ No Plans Required

Joint Plan Review Required:

☐ Building ☐ Plumbing

☐ Electric ☐ Elevator

☐ Fire Plans Approved

Date: 11-26-08

Approved by: [Signature]

### SUBCODE APPROVAL

☐ CO ☐ CCO ☐ CA

Date: \_\_\_\_\_

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

## INSPECTIONS

Type: Failure Failure Approval Initial

Alarm System \_\_\_\_\_

Suppression Sys. \_\_\_\_\_

Standpipe \_\_\_\_\_

Fire Pump \_\_\_\_\_

Pre-Eng. System \_\_\_\_\_

Mechanical \_\_\_\_\_

Smoke Control \_\_\_\_\_

TCO \_\_\_\_\_

Flam/Combust Tanks \_\_\_\_\_

Fireplace Venting \_\_\_\_\_

Final \_\_\_\_\_

Other \_\_\_\_\_

Dates (Month/Day)



Date Received  
Control #

Date Issued  
Permit #

## 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. [Signature]

Applicant's Signature/Contractor's Signature

☐ Certified Contractor

☒ Exempt Applicant

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK:

Replace 18 HVAC Packaged roof top units.

Water Supply Source \_\_\_\_\_

Method of Alarm/Suppression System Supervision \_\_\_\_\_

|                                                                                          | NUMBER | FEE (Office Use Only) |
|------------------------------------------------------------------------------------------|--------|-----------------------|
| 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, water/flow)                                     | _____  | _____                 |
| Supervisory Devices (i.e., tampers, low/high air)                                        | _____  | _____                 |
| Signaling Devices (i.e., horn/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                                                                     | _____  | _____                 |
| Fired Appliances <input checked="" type="checkbox"/> Gas or <input type="checkbox"/> Oil | 18     | 700                   |
| Fireplace Venting/Metal Chimney                                                          | _____  | _____                 |
| Other                                                                                    | _____  | _____                 |

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



# CONSTRUCTION PERMIT

Date Issued  
Control #  
Permit #

12/16/08  
C-08-005377  
08-3718

IDENTIFICATION Block: 1170 Lot: 16 Qualifier  
Work Site Location: 970 ROUTE 70 Brick Township, NJ Contractor: PATRICK T KERWIN  
Address: 1624 BEAVER DAM ROAD POINT PLEASANT NJ 08742  
Owner in Fee: MEDICAL CENTER OF OCEAN COUNTY  
%JACO 2816 WEST 11TH ST. PANAMA CITY FL 32401 Telephone: (732) 295-2167  
Telephone: (850) 784-3900 Lic. No. or Bldrs. Reg. No. 13VH01569000  
Federal Employee No. 22-2354-524

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:

HVAC REPLACE EXISTING 18 ROOFTOP U HEAT/AIRE PALISAGE UNITS. LIKE FOR LIKE.

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 \$13,000

Construction Official

Date

U.C.C. F170  
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |         |
|------------------|---------|
| Building         | \$0     |
| Electrical       | \$395   |
| Plumbing         | \$720   |
| Fire Protection  | \$900   |
| Elevator Devices | \$0     |
| Other            | \$0.00  |
| DCA Training Fee | \$17    |
| CO Fee           |         |
| Other            | \$0     |
| Total            | \$2,032 |
| Check No.        |         |
| 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:

- 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.
- Foundations and all walls up to grade level prior to back filling.
- 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.
- 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".

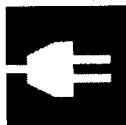
☐ A complete copy of released plans must be kept on the job site.

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

12/16/08 10:25AM 00155848099  
XX01 SERV.001  
#3718  
FIRE  
CHECK  
\$395.00  
\$720.00  
\$900.00  
\$17.00  
\$2032.00



# ELECTRICAL SUBCODE TECHNICAL SECTION



Date Received  
Control #

Date Issued  
Permit #

08-3718  
12/16/08

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

Block 1170 Lot 16 Qualification Code \_\_\_\_\_  
Work Site Location 970 Route 70

Owner in Fee: JACO Management Co.

Tel: (~~732~~) 850-784-3900 e-mail \_\_\_\_\_

Address 2816A W. 11th St. Panama City, FL 32401  
street municipality zip code

Contractor: HORIZON ELECTRIC Tel. (772) 920 5086

Address 50 WOODLAND DR BRICIS NJ 08723 e-mail \_\_\_\_\_  
~~BRICIS NJ 08723~~

Contractor License No. 12803 Exp. Date 03-09

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

Federal Emp. ID No. 22-3446627 FAX: ( ) \_\_\_\_\_

## B. ELECTRICAL CHARACTERISTICS

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

[ ] Pole/Pad # \_\_\_\_\_ [ ] Temporary [ ] Other \_\_\_\_\_

Building Occupied as \_\_\_\_\_ Utility Co. \_\_\_\_\_

Est. Cost of Elec. Work \$ \$6,000.00

| JOB SUMMARY (Office Use Only)                                                                                                |                                     |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| PLAN REVIEW                                                                                                                  | INSPECTIONS                         |
| <input checked="" type="checkbox"/> No Plans Required                                                                        | Type: _____                         |
| <input type="checkbox"/> Partial -Underslab Utilities Approved                                                               | Rough _____                         |
| Date: _____ Approved by: _____                                                                                               | Barrier-Free _____                  |
| <input type="checkbox"/> Electric Plans Approved                                                                             | Trench _____                        |
| Date: <u>12/30/08</u> Approved by: <u>[Signature]</u>                                                                        | Temp. Serv. _____                   |
| 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 _____                         |
| Date: _____                                                                                                                  | Service _____                       |
| Approved by: _____                                                                                                           | Final _____                         |
| SUBCODE APPROVAL for CERTIFICATE                                                                                             | Barrier-Free _____                  |
| <input type="checkbox"/> CO <input type="checkbox"/> CCO <input type="checkbox"/> CA                                         | Temp. Cut-in-Card Date Issued _____ |
| Date: _____                                                                                                                  | Final Cut-in-Card Date Issued _____ |
| Approved by: _____                                                                                                           | Annual Pool Inspection _____        |
|                                                                                                                              | Date of Grounding and Bonding _____ |
|                                                                                                                              | Certification _____                 |

## 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's Signature/Contractor's Seal and Signature

☒ Licensed Elec. Contractor [ ] Certif'd Landscape Irrigation Contr. [ ] Exempt Applicant

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

REPLACE EXISTING 18 ROOFTOP HEAT/  
AIR PASSAGE UNITS  
LIKE FOR LIKE

| QTY. | SIZE | ITEMS                          | FEE (Office Use Only) |
|------|------|--------------------------------|-----------------------|
|      |      | Lighting Fixtures              |                       |
|      |      | Receptacles                    |                       |
|      |      | Switches                       |                       |
|      |      | Detectors                      |                       |
|      |      | Light Poles                    |                       |
|      |      | Motors—Fract. HP               |                       |
|      |      | Emergency & Exit Lights        |                       |
|      |      | Communications Points          |                       |
|      |      | Alarm Devices/F.A.C. Panel     |                       |
|      |      | TOTAL NUMBERS                  | \$ _____              |
|      |      | Pool Permit/with UW Lights     |                       |
|      |      | Storable 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    |                       |
|      |      | ROOFTOP HEAT/AIR               |                       |
|      |      | PASSAGE UNITS                  |                       |

18

SEE SEPARATE  
SHEET FOR  
14.W.

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



## General Data

### 7½-8½ Tons Standard Efficiency

Table 3. General Data — 7½-8½ Tons

|                                                             | 7½ Tons                              |                                                  | 8½ Tons                          |
|-------------------------------------------------------------|--------------------------------------|--------------------------------------------------|----------------------------------|
|                                                             | T/YSC090A3,4W,K<br>Single Compressor | T/YSC092A3,4,W <sup>(i)</sup><br>Dual Compressor | T/YSC102A3,4,W,K <sup>(ii)</sup> |
| <b>Cooling Performance<sup>(iii)</sup></b>                  |                                      |                                                  |                                  |
| Gross Cooling Capacity                                      | 92,000                               | 92,000                                           | 105,000                          |
| EER <sup>(iv)</sup>                                         | 10.4/10.1                            | 10.4/10.3                                        | 10.3/10.1                        |
| Nominal CFM / ARI Rated CFM                                 | 3,000/2,625                          | 3,000/2,625                                      | 3,400/3,000                      |
| ARI Net Cooling Capacity                                    | 87,000                               | 87,000                                           | 100,000                          |
| Integrated Part Load Value <sup>(v)</sup>                   | —                                    | 11.0                                             | 11.8                             |
| System Power (kW)                                           | 8.71                                 | 8.37                                             | 9.9                              |
| <b>Compressor</b>                                           |                                      |                                                  |                                  |
| Number/Type                                                 | 1/Scroll                             | 2/Scrolls                                        | 2/Scrolls                        |
| <b>Sound</b>                                                |                                      |                                                  |                                  |
| Outdoor Sound Rating (dB) <sup>(vi)</sup>                   | 90                                   | 87                                               | 86                               |
| <b>Outdoor Coil</b>                                         |                                      |                                                  |                                  |
| Type                                                        | Lanced                               | Lanced                                           | Lanced                           |
| Tube Size (in.)                                             | 0.3125                               | 0.3125                                           | 0.3125                           |
| Face Area (sq. ft.)                                         | 13.875                               | 17.0                                             | 19.83                            |
| Rows/FPI                                                    | 2/17                                 | 2/17                                             | 2/17                             |
| <b>Indoor Coil</b>                                          |                                      |                                                  |                                  |
| Type                                                        | Lanced                               | Lanced                                           | Lanced                           |
| Tube Size (in.)                                             | 0.3125                               | 0.3125                                           | 0.3125                           |
| Face Area (sq. ft.)                                         | 9.89                                 | 9.89                                             | 12.36                            |
| Rows/FPI                                                    | 3/16                                 | 3/16                                             | 3/16                             |
| Refrigerant Control                                         | Short Orifice                        | Short Orifice                                    | Short Orifice                    |
| Drain Connection Number/Size (in.)                          | 1¼ NPT                               | 1¼ NPT                                           | 1¼ NPT                           |
| <b>Outdoor Fan</b>                                          |                                      |                                                  |                                  |
| Type                                                        | Propeller                            | Propeller                                        | Propeller                        |
| Number Used/Diameter (in.)                                  | 1/26                                 | 1/26                                             | 1/26                             |
| Drive Type/No. Speeds                                       | Direct/1                             | Direct/1                                         | Direct/1                         |
| CFM                                                         | 6,200                                | 6,500                                            | 7,100                            |
| Number Motors/HP                                            | 1/0.70 <sup>(vii)</sup>              | 1/0.70                                           | 1/0.75                           |
| Motor RPM                                                   | 1,075                                | 1,075                                            | 1,075                            |
| <b>Belt Drive Indoor Fan</b>                                |                                      |                                                  |                                  |
| Type                                                        | FC Centrifugal                       | FC Centrifugal                                   | FC Centrifugal                   |
| Number Used/Diameter (in.)                                  | 1/12x12                              | 1/12x12                                          | 1/15x15                          |
| Drive Type/Number Speeds                                    | Belt/Variable Sheave                 | Belt/Variable Sheave                             | Belt/Variable Sheave             |
| Number Motors                                               | 1                                    | 1                                                | 1                                |
| Motor HP (Standard/Oversized)                               | 2.00/3.00                            | 2.00/3.00                                        | 2.00/3.00                        |
| Motor RPM (Standard/Oversized)                              | 1,750/1,750                          | 1,750/1,750                                      | 1,750/1,750                      |
| Motor Frame Size (Standard/Oversized)                       | 56/56                                | 56/56                                            | 56/56                            |
| <b>Filters<sup>(viii)</sup></b>                             |                                      |                                                  |                                  |
| Type Furnished                                              | Throwaway                            | Throwaway                                        | Throwaway                        |
| Number Size Recommended                                     | (4) 16x25x2                          | (4) 16x25x2                                      | (4) 20x25x2                      |
| <b>Refrigerant Charge<br/>(Lbs. of R-22)<sup>(ix)</sup></b> |                                      |                                                  |                                  |
| Pounds of R-22                                              | 9.78                                 | 6.2 Circuit 1/3.4 Circuit 2                      | 7.9 Circuit 1/4.0 Circuit 2      |



## General Data

### 7½-8½ Tons Standard Efficiency

Table 3. (continued) General Data — 7½-8½ Tons

|                                          | 7½ Tons         |                 | 8½ Tons         |
|------------------------------------------|-----------------|-----------------|-----------------|
| <b>Heating Performance<sup>(x)</sup></b> |                 |                 |                 |
| <b>(Gas/Electric Only)</b>               |                 |                 |                 |
| <b>Heating Input<sup>(xi)</sup></b>      |                 |                 |                 |
| Low Heat Input (Btu)                     | 120,000         | 120,000         | 120,000         |
| Mid <sup>(xii)</sup> Heat Input (Btu)    | 150,000/105,000 | 150,000/105,000 | 150,000/105,000 |
| High Heat Input (Btu)                    | 200,000/140,000 | 200,000/140,000 | 200,000/140,000 |
| <b>Heating Output<sup>(xiii)</sup></b>   |                 |                 |                 |
| Low Heat Input (Btu)                     | 97,200          | 97,200          | 97,200          |
| Mid Heat Input (Btu)                     | 121,500/85,000  | 121,500/85,000  | 121,500/85,000  |
| High Heat Input (Btu)                    | 162,000/113,000 | 162,000/113,000 | 162,000/113,000 |
| <b>AFUE<sup>(xiv)</sup>%</b>             |                 |                 |                 |
| Low Heat Input (Btu)                     | 81              | 81              | 81              |
| Mid Heat Input (Btu)                     | 81              | 81              | 81              |
| High Heat Input (Btu)                    | 81              | 81              | 81              |
| <b>Steady State Efficiency%</b>          |                 |                 |                 |
| Low Heat Input (Btu)                     | 81              | 81              | 81              |
| Mid Heat Input (Btu)                     | 81              | 81              | 81              |
| High Heat Input (Btu)                    | 80              | 80              | 81              |
| <b>No. Burners</b>                       |                 |                 |                 |
| Low Heat Input (Btu)                     | 3               | 3               | 3               |
| Mid Heat Input (Btu)                     | 3               | 3               | 3               |
| High Heat Input (Btu)                    | 4               | 4               | 4               |
| <b>No. Stages</b>                        |                 |                 |                 |
| Low Heat Input (Btu)                     | 1               | 1               | 1               |
| Mid Heat Input (Btu)                     | 2               | 2               | 2               |
| High Heat Input (Btu)                    | 2               | 2               | 2               |
| <b>Gas Supply Line Pressure</b>          |                 |                 |                 |
| Natural (minimum/maximum)                | 4.5/14.0        | 4.5/14.0        | 4.5/14.0        |
| LP (minimum/maximum)                     | 10.0/14.0       | 10.0/14.0       | 10.0/14.0       |
| <b>Gas Connection Pipe Size (in)</b>     |                 |                 |                 |
| Low Heat                                 | 1/2             | 1/2             | 1/2             |
| Mid Heat                                 | 3/4             | 3/4             | 3/4             |
| High Heat                                | 3/4             | 3/4             | 3/4             |

(i) YSC092A when applied in a horizontal configuration has a 10.1 EER, 10.7 Integrated Part Load Value, and 8.61 System Power (kW).

(ii) YSC102A when applied in horizontal configuration has an 11.3 Integrated Part Load Value, 9.8 System Power (kW) and 99,000 ARI Net Cooling Capacity.

(iii) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz).

(iv) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(v) Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated at 80°F ambient, 80°F entering dry bulb, and 67°F entering wet bulb at ARI rated cfm.

(vi) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to Table 127.

(vii) Outdoor motor is 0.75 hp for AK (380V/60 Hz) units.

(viii) Optional 2" pleated filters also available.

(ix) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(x) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.

(xi) Second stage/first stage if applicable.

(xii) Medium heat is not available for AK (380V/60 Hz) units.

(xiii) Second stage/first stage if applicable.

(xiv) AFUE is rated in accordance with DOE test procedures.



## Weights

**Table 154. Maximum Unit and Corner Weights (Lbs) and Center of Gravity Dimensions (In.) Gas/Electric Units only**

| Tons | Unit Model              | Basic Model Weights (Lbs) <sup>(i),(ii)</sup> |      | Corner Weights (Lbs) <sup>(iii)</sup> |     |     |     | Center of Gravity (In.) |       |
|------|-------------------------|-----------------------------------------------|------|---------------------------------------|-----|-----|-----|-------------------------|-------|
|      | Number                  | Shipping                                      | Net  | A                                     | B   | C   | D   | Length                  | Width |
| 3    | YSC036A                 | 572                                           | 480  | 151                                   | 124 | 96  | 109 | 32                      | 19    |
|      | YHC033A <sup>(iv)</sup> | 627                                           | 537  | 159                                   | 139 | 126 | 111 | 32                      | 19    |
| 4    | YSC048A                 | 597                                           | 505  | 159                                   | 130 | 108 | 109 | 33                      | 19    |
|      | YHC043A <sup>(iv)</sup> | 669                                           | 577  | 167                                   | 144 | 139 | 127 | 32                      | 20    |
| 5    | YSC060A                 | 614                                           | 522  | 169                                   | 134 | 105 | 114 | 32                      | 18    |
|      | YHC063A <sup>(iv)</sup> | 704                                           | 612  | 180                                   | 151 | 144 | 137 | 32                      | 20    |
| 6    | YSC072A                 | 878                                           | 735  | 249                                   | 193 | 132 | 161 | 39                      | 21    |
|      | YHC072A                 | 915                                           | 772  | 249                                   | 198 | 141 | 184 | 39                      | 22    |
| 7½   | YSC090A                 | 884                                           | 741  | 234                                   | 208 | 146 | 153 | 42                      | 21    |
|      | YSC092A                 | 965                                           | 822  | 277                                   | 222 | 147 | 175 | 40                      | 21    |
|      | YHC092A                 | 1066                                          | 923  | 306                                   | 243 | 165 | 210 | 39                      | 22    |
| 8½   | YSC102A                 | 1042                                          | 899  | 297                                   | 243 | 165 | 194 | 40                      | 21    |
|      | YHC102A                 | 1100                                          | 957  | 310                                   | 252 | 175 | 220 | 40                      | 22    |
| 10   | YSC120A                 | 1063                                          | 958  | 317                                   | 261 | 177 | 202 | 41                      | 21    |
|      | YHC120A                 | 1203                                          | 1060 | 342                                   | 277 | 197 | 245 | 40                      | 22    |

(i) Weights are approximate.

(ii) Same as above.

(iii) Corner weights are given for information only.

(iv) 13 SEER

**Table 155. Factory Installed Options (FIOPS)/Accessory Net Weights (Lbs)<sup>(i),(iii)</sup>**

| Accessory                                     | Net Weight |                    |           |
|-----------------------------------------------|------------|--------------------|-----------|
|                                               | 3-5 Tons   | 3-5 Tons 13 SEER   | 6-10 Tons |
| Barometric Relief                             | 7          | 7                  | 10        |
| Belt Drive Motor                              | 38         | 38                 | —         |
| Coil Guards                                   | 12         | 12                 | 20        |
| Dehumidification (Hot Gas Reheat) Coil        | 15         | 15                 | 25        |
| Economizer                                    | 26         | 26                 | 36        |
| Electric Heaters <sup>(iii)</sup>             | 15         | 15 <sup>(iv)</sup> | 15        |
| Hinged Doors                                  | 10         | 10                 | 12        |
| Motorized Outside Air Damper                  | 20         | 20                 | 30        |
| Manual Outside Air Damper                     | 16         | 16                 | 26        |
| Novar Control                                 | 8          | 8                  | 8         |
| Oversized Motor                               | 5          | —                  | 8         |
| Powered Convenience Outlet                    | 38         | 38                 | 38        |
| Powered Exhaust                               | —          | —                  | 80        |
| Roof Curb                                     | 70         | 70                 | 115       |
| Smoke Detector, Return                        | 7          | 5                  | 7         |
| Smoke Detector, Supply                        | 5          | 4                  | 5         |
| Stainless Steel Heat Exchanger <sup>(v)</sup> | 4          | 4                  | 6         |
| Through the Base Electrical                   | 8          | 8                  | 13        |
| Through the Base Gas                          | 5          | 5                  | 5         |
| Unit Mounted Circuit Breaker                  | 5          | 5                  | 5         |
| Unit Mounted Disconnect                       | 5          | 5                  | 5         |

(i) Weights for options not listed are <5 lbs.

(ii) Net weight should be added to unit weight when ordering factory-installed accessories.

(iii) Applicable to Cooling with Electric Heat Units only.

(iv) Applicable to Cooling and Heat Pump units only.

(v) Applicable to Gas/Electric Units only.



## Electrical Data

**Table 136. Unit Wiring with Gas Heat or Cooling (No Electric Heat)**

| Tons | Unit Model Number | Unit Operating Voltage Range | Standard Indoor Fan Motor |                                                              | Oversize Indoor Fan Motor |                                              | Optional Belt Drive Indoor Fan Motor <sup>(i)</sup> |                                              |
|------|-------------------|------------------------------|---------------------------|--------------------------------------------------------------|---------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|
|      |                   |                              | Minimum Circuit Ampacity  | Maximum Fuse Size or Maximum Circuit Breaker <sup>(ii)</sup> | Minimum Circuit Ampacity  | Maximum Fuse Size or Maximum Circuit Breaker | Minimum Circuit Ampacity                            | Maximum Fuse Size or Maximum Circuit Breaker |
| 3    | T/YSC036A3        | 187-253                      | 17.9                      | 25                                                           | 20.3                      | 30                                           | 20.6                                                | 30                                           |
|      | T/YSC036A4        | 414-506                      | 9.2                       | 15                                                           | 10.4                      | 15                                           | 10.6                                                | 15                                           |
|      | T/YSC036AW        | 517-633                      | 7.7                       | 15                                                           | 8.3                       | 15                                           | 8.3                                                 | 15                                           |
| 4    | T/YSC048A3        | 187-253                      | 23.9                      | 35                                                           | 26.0                      | 40                                           | 25.3                                                | 35                                           |
|      | T/YSC048A4        | 414-506                      | 12.8                      | 20                                                           | 14.4                      | 20                                           | 13.6                                                | 20                                           |
|      | T/YSC048AW        | 517-633                      | 9.8                       | 15                                                           | 10.6                      | 15                                           | 10.0                                                | 15                                           |
| 5    | T/YSC060A3        | 187-253                      | 31.5                      | 50                                                           | 33.2                      | 50                                           | 30.3                                                | 45                                           |
|      | T/YSC060A4        | 414-506                      | 16.0                      | 25                                                           | 16.3                      | 25                                           | 15.6                                                | 25                                           |
|      | T/YSC060AW        | 517-633                      | 12.2                      | 15                                                           | 12.8                      | 20                                           | 11.8                                                | 15                                           |
|      | T/YSC060AK        | 342-418                      | 19.6                      | 30                                                           | —                         | —                                            | —                                                   | —                                            |
| 6    | T/YSC072A3        | 187-253                      | 32.7                      | 50                                                           | 34.0                      | 50                                           | —                                                   | —                                            |
|      | T/YSC072A4        | 414-506                      | 17.6                      | 25                                                           | 18.2                      | 25                                           | —                                                   | —                                            |
|      | T/YSC072AW        | 517-633                      | 12.8                      | 20                                                           | 13.6                      | 20                                           | —                                                   | —                                            |
|      | T/YSC072AK        | 342-418                      | 23.2                      | 35                                                           | —                         | —                                            | —                                                   | —                                            |
| 7½   | T/YSC090A3        | 187-253                      | 37.8                      | 60                                                           | 40.9                      | 60                                           | —                                                   | —                                            |
|      | T/YSC090A4        | 414-506                      | 19.13                     | 30                                                           | 20.63                     | 30                                           | —                                                   | —                                            |
|      | T/YSC090AW        | 517-633                      | 14.28                     | 20                                                           | 15.48                     | 20                                           | —                                                   | —                                            |
|      | T/YSC090AK        | 342-418                      | 21.4                      | 30                                                           | 22.9                      | 30                                           | —                                                   | —                                            |
|      | T/YSC092A3        | 187-253                      | 38.9                      | 50                                                           | 42.0                      | 50                                           | —                                                   | —                                            |
|      | T/YSC092A4        | 414-506                      | 20.5                      | 25                                                           | 22.0                      | 25                                           | —                                                   | —                                            |
|      | T/YSC092AW        | 517-633                      | 15.5                      | 20                                                           | 16.7                      | 20                                           | —                                                   | —                                            |
| 8½   | T/YSC102A3        | 187-253                      | 45.1                      | 60                                                           | 48.2                      | 60                                           | —                                                   | —                                            |
|      | T/YSC102A4        | 414-506                      | 24.0                      | 30                                                           | 25.5                      | 35                                           | —                                                   | —                                            |
|      | T/YSC102AW        | 517-633                      | 19.5                      | 25                                                           | 20.7                      | 25                                           | —                                                   | —                                            |
|      | T/YSC102AK        | 342-418                      | 32.6                      | 40                                                           | 35.6                      | 45                                           | —                                                   | —                                            |
| 10   | T/YSC120A3        | 187-253                      | 52.6                      | 60                                                           | 56.6                      | 70                                           | —                                                   | —                                            |
|      | T/YSC120A4        | 414-506                      | 26.9                      | 35                                                           | 28.9                      | 35                                           | —                                                   | —                                            |
|      | T/YSC120AW        | 517-633                      | 21.8                      | 25                                                           | 23.5                      | 30                                           | —                                                   | —                                            |
|      | T/YSC120AK        | 342-418                      | 32.6                      | 40                                                           | 35.6                      | 45                                           | —                                                   | —                                            |

(i) For standard and oversized motors, HACR breaker per NEC.

(ii) Optional Belt Drive motor applies to 3-5 ton models only. The Standard Motor for 3-5 ton models is Direct Drive. The Standard Motor for 6-10 ton models is Belt Drive.



15 units

## General Data

Table 2. General data - 5 Tons - standard efficiency

|                                          | 5 Tons                  |                         |
|------------------------------------------|-------------------------|-------------------------|
|                                          | T/YSC060E1              | T/YSC060E3,4,W          |
| <b>Cooling Performance<sup>(a)</sup></b> |                         |                         |
| Gross Cooling Capacity                   | 59,900                  | 62,270                  |
| SEER <sup>(b)</sup>                      | 13.0                    | 13.0                    |
| Nominal cfm / ARI Rated cfm              | 2,000/2,000             | 2,000/2,000             |
| ARI Net Cooling Capacity                 | 58,000                  | 60,000                  |
| System Power (kW)                        | 5.25                    | 5.46                    |
| <b>Compressor</b>                        |                         |                         |
| Number/Type                              | 1/Scroll                | 1/Scroll                |
| <b>Sound</b>                             |                         |                         |
| Outdoor Sound Rating (dB) <sup>(c)</sup> | 82                      | 82                      |
| <b>Outdoor Coil</b>                      |                         |                         |
| Type                                     | Lanced                  | Lanced                  |
| Tube Size (in.)                          | 0.3125                  | 0.3125                  |
| Face Area (sq. ft.)                      | 10.96                   | 10.96                   |
| Rows/FPI                                 | 3/17                    | 3/17                    |
| <b>Indoor Coil</b>                       |                         |                         |
| Type                                     | Lanced                  | Lanced                  |
| Tube Size (in.)                          | 0.3125                  | 0.3125                  |
| Face Area (sq. ft.)                      | 7.71                    | 7.71                    |
| Rows/FPI                                 | 4/16                    | 4/16                    |
| Refrigerant Control                      | Thermal Expansion Valve | Thermal Expansion Valve |
| Drain Connection Number/Size (in.)       | 1¾ NPT                  | 1¾ NPT                  |
| <b>Outdoor Fan</b>                       |                         |                         |
| Type                                     | Propeller               | Propeller               |
| Number Used/Diameter (in.)               | 1/22                    | 1/22                    |
| Drive Type/No. Speeds                    | Direct/1                | Direct/1                |
| cfm                                      | 3,271                   | 3,245                   |
| Number Motors/hp                         | 0.40                    | 0.40                    |
| Motor rpm                                | 1,075                   | 1,075                   |
| <b>Indoor Fan</b>                        |                         |                         |
| Type (Standard)                          | FC Centrifugal          | FC Centrifugal          |
| Number Used/Diameter (in.)               | 1/11x11                 | 1/11x11                 |
| Drive Type/Number Speeds                 | Direct/5                | Belt/Variable           |
| Motor hp                                 | 1.0                     | 1.0                     |
| Motor Frame Size                         | 48                      | 56                      |
| <b>Filters<sup>(d)</sup></b>             |                         |                         |
| Type Furnished                           | Throwaway               | Throwaway               |
| Number Size Recommended                  | (2) 20x30x1             | (2) 20x30x1             |
| <b>Refrigerant Charge <sup>(e)</sup></b> |                         |                         |
| Pounds of R-410A                         | 9.5                     | 9.4                     |

continued on next page

## General Data

**Table 2. (continued) General data - 5 Tons - standard efficiency**

|                                          | <b>5 Tons</b>     |                       |
|------------------------------------------|-------------------|-----------------------|
|                                          | <b>T/YSC060E1</b> | <b>T/YSC060E3,4,W</b> |
| <b>Heating Performance<sup>(f)</sup></b> |                   |                       |
| <b>(Gas/Electric Only)</b>               |                   |                       |
| <b>Heating Input</b>                     |                   |                       |
| Low Heat Input (Btu)                     | 60,000            | 60,000                |
| Mid Heat Input (Btu)                     | 80,000            | 80,000                |
| High Heat Input (Btu)                    | 130,000           | 130,000               |
| <b>Heating Output</b>                    |                   |                       |
| Low Heat Input (Btu)                     | 48,000            | 48,000                |
| Mid Heat Input (Btu)                     | 65,000            | 64,000                |
| High Heat Input (Btu)                    | 104,000           | 104,000               |
| <b>AFUE<sup>(g)</sup></b>                |                   |                       |
| Low Heat Input (Btu)                     | 78                | 80                    |
| Mid Heat Input (Btu)                     | 79                | 80                    |
| High Heat Input (Btu)                    | 78                | 80                    |
| <b>Steady State Efficiency%</b>          |                   |                       |
| Low Heat Input (Btu)                     | 80                | 80                    |
| Mid Heat Input (Btu)                     | 81                | 80                    |
| High Heat Input (Btu)                    | 80                | 80                    |
| <b>No. Burners</b>                       |                   |                       |
| Low Heat Input (Btu)                     | 2                 | 2                     |
| Mid Heat Input (Btu)                     | 2                 | 2                     |
| High Heat Input (Btu)                    | 3                 | 3                     |
| <b>No. Stages</b>                        |                   |                       |
| Low Heat Input (Btu)                     | 1                 | 1                     |
| Mid Heat Input (Btu)                     | 1                 | 1                     |
| High Heat Input (Btu)                    | 1                 | 1                     |
| <b>Gas Supply Line Pressure</b>          |                   |                       |
| Natural (minimum/maximum)                | 4.5/10.5          | 4.5/10.5              |
| LP (minimum/maximum)                     | 10.0/13.0         | 10.0/13.0             |
| <b>Gas Connection Pipe Size (in)</b>     |                   |                       |
| Low Heat                                 | 1/2               | 1/2                   |
| Mid Heat                                 | 1/2               | 1/2                   |
| High Heat                                | 1/2               | 1/2                   |

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240 except AK (380V/60 Hz).

(b) EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.

(c) Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to Table 109, p. 134.

(d) Optional 2" pleated filters also available.

(e) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.

(f) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.

(g) AFUE is rated in accordance with DOE test procedures.



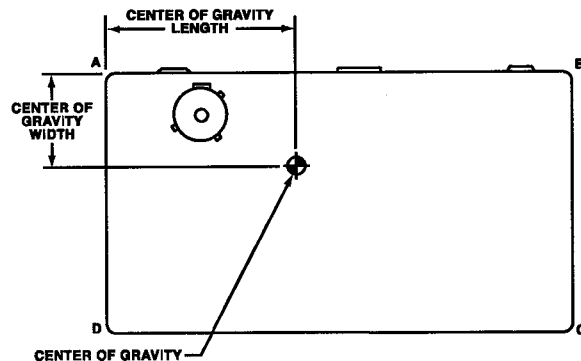
# Weights

**Table 143. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.)**

| Tons | Unit<br>Model No. | Maximum Model Weights <sup>(a)</sup> |      | Corner Weights <sup>(b)</sup> |     |     |     | Center of Gravity (in.) |       |
|------|-------------------|--------------------------------------|------|-------------------------------|-----|-----|-----|-------------------------|-------|
|      |                   | Shipping                             | Net  | A                             | B   | C   | D   | Length                  | Width |
| 3    | TSC036E1,3,4,W    | 555                                  | 480  | 157                           | 122 | 95  | 107 | 31                      | 19    |
| 3    | YSC036E1,3,4,W    | 607                                  | 532  | 165                           | 137 | 95  | 134 | 31                      | 19    |
| 3    | WSC036E1,3,4,W    | 589                                  | 514  | 177                           | 107 | 113 | 117 | 29                      | 20    |
| 4    | TSC048E1,3,4,W    | 586                                  | 511  | 167                           | 129 | 101 | 114 | 31                      | 19    |
| 4    | YSC048E1,3,4,W    | 638                                  | 563  | 175                           | 145 | 101 | 142 | 31                      | 19    |
| 4    | WSC048E1,3,4,W    | 600                                  | 525  | 181                           | 109 | 115 | 119 | 29                      | 20    |
| 5    | TSC060E1,3,4,W    | 636                                  | 561  | 183                           | 142 | 111 | 125 | 31                      | 19    |
| 5    | YSC060E1,3,4,W    | 688                                  | 613  | 190                           | 158 | 110 | 155 | 31                      | 19    |
| 5    | WSC060E1,3,4,W    | 825                                  | 682  | 228                           | 177 | 114 | 163 | 38                      | 24    |
| 6    | TSC072E           | 898                                  | 755  | 295                           | 136 | 209 | 115 | 40                      | 23    |
| 6    | YSC072E           | 936                                  | 793  | 304                           | 146 | 219 | 124 | 41                      | 23    |
| 7½   | TSC092E           | 1009                                 | 866  | 358                           | 147 | 252 | 109 | 41                      | 22    |
| 7½   | YSC092E           | 1059                                 | 916  | 370                           | 160 | 265 | 121 | 41                      | 22    |
| 8½   | TSC102E           | 1048                                 | 905  | 359                           | 161 | 265 | 120 | 42                      | 23    |
| 8½   | YSC102E           | 1096                                 | 953  | 371                           | 173 | 277 | 132 | 42                      | 23    |
| 10   | TSC120E           | 1139                                 | 996  | 388                           | 185 | 281 | 142 | 41                      | 23    |
| 10   | YSC120E           | 1201                                 | 1058 | 403                           | 201 | 297 | 157 | 42                      | 23    |

(a) Weights are approximate.

(b) Corner weights are given for information only.



**Table 144. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.)**

| Tons | Unit<br>Model No. | Maximum Model Weights <sup>(a)</sup> |     | Corner Weights <sup>(b)</sup> |     |     |     | Center of Gravity (in.) |       |
|------|-------------------|--------------------------------------|-----|-------------------------------|-----|-----|-----|-------------------------|-------|
|      |                   | Shipping                             | Net | A                             | B   | C   | D   | Length                  | Width |
| 3    | THC036E1,3,4      | 566                                  | 472 | 109                           | 85  | 186 | 92  | 40                      | 26    |
|      | YHC036E1,3,4      | 637                                  | 544 | 127                           | 103 | 204 | 110 | 39                      | 26    |
| 4    | THC048E1,3,4      | 798                                  | 653 | 155                           | 127 | 248 | 123 | 40                      | 25    |
|      | YHC048E1,3,4      | 869                                  | 725 | 173                           | 145 | 266 | 141 | 40                      | 25    |
| 5    | THC060E1,3,4      | 823                                  | 676 | 204                           | 74  | 327 | 71  | 41                      | 26    |
|      | YHC060E1,3,4      | 894                                  | 748 | 222                           | 92  | 345 | 89  | 41                      | 26    |

(a) Weights are approximate.

(b) Corner weights are given for information only.



# Electrical Data

Table 128. Unit wiring - standard efficiency

| Tons              | Unit Model Number | Voltage Range | Standard Indoor Fan Motor <sup>(a)</sup> |                                      | Oversized Indoor Fan Motor |                                      |
|-------------------|-------------------|---------------|------------------------------------------|--------------------------------------|----------------------------|--------------------------------------|
|                   |                   |               | MCA                                      | Max Fuse Size or Max Circuit Breaker | MCA                        | Max Fuse Size or Max Circuit Breaker |
| 3                 | T/YSC036E1        | 187-253       | 27.2                                     | 40                                   | —                          | —                                    |
| 3                 | T/YSC036E3        | 187-253       | 21.4                                     | 30                                   | —                          | —                                    |
| 3                 | T/YSC036E4        | 414-506       | 10.1                                     | 15                                   | —                          | —                                    |
| 3                 | T/YSC036EW        | 517-633       | 8.0                                      | 15                                   | —                          | —                                    |
| 4                 | T/YSC048E1        | 187-253       | 35.2                                     | 50                                   | —                          | —                                    |
| 4                 | T/YSC048E3        | 187-253       | 25.2                                     | 35                                   | —                          | —                                    |
| 4                 | T/YSC048E4        | 414-506       | 12.5                                     | 15                                   | —                          | —                                    |
| 4                 | T/YSC048EW        | 517-633       | 9.0                                      | 15                                   | —                          | —                                    |
| 5                 | T/YSC060E1        | 187-253       | 43.8                                     | 70                                   | —                          | —                                    |
| 5                 | T/YSC060E3        | 187-253       | 29.5                                     | 45                                   | —                          | —                                    |
| 5                 | T/YSC060E4        | 414-506       | 15.5                                     | 25                                   | —                          | —                                    |
| 5                 | T/YSC060EW        | 517-633       | 10.1                                     | 15                                   | —                          | —                                    |
| 6                 | T/YSC072E3        | 187-253       | 36.5                                     | 50                                   | 37.8                       | 60                                   |
| 6                 | T/YSC072E4        | 414-506       | 18.2                                     | 25                                   | 18.8                       | 25                                   |
| 6                 | T/YSC072EW        | 517-633       | 12.7                                     | 20                                   | 13.5                       | 20                                   |
| 7½ <sup>(b)</sup> | T/YSC092E3        | 187-253       | 43.3                                     | 50                                   | 46.4                       | 60                                   |
| 7½ <sup>(b)</sup> | T/YSC092E4        | 414-506       | 21.5                                     | 25                                   | 23.0                       | 30                                   |
| 7½ <sup>(b)</sup> | T/YSC092EW        | 517-633       | 15.9                                     | 20                                   | 17.1                       | 20                                   |
| 8½                | T/YSC102E3        | 187-253       | 46.3                                     | 60                                   | 49.4                       | 60                                   |
| 8½                | T/YSC102E4        | 414-506       | 21.9                                     | 25                                   | 23.4                       | 30                                   |
| 8½                | T/YSC102EW        | 517-633       | 17.5                                     | 20                                   | 18.7                       | 20                                   |
| 10                | T/YSC120E3        | 187-253       | 55.9                                     | 60                                   | 59.9                       | 60                                   |
| 10                | T/YSC120E4        | 414-506       | 26.5                                     | 35                                   | 28.5                       | 35                                   |
| 10                | T/YSC120EW        | 517-633       | 21.2                                     | 25                                   | 22.9                       | 30                                   |
| 3                 | WSC036E1          | 187-253       | 31.2                                     | 45                                   | —                          | —                                    |
| 3                 | WSC036E3          | 187-253       | 23.8                                     | 35                                   | —                          | —                                    |
| 3                 | WSC036E4          | 414-506       | 11.4                                     | 15                                   | —                          | —                                    |
| 3                 | WSC036EW          | 517-633       | 8.8                                      | 15                                   | —                          | —                                    |
| 4                 | WSC048E1          | 187-253       | 38.9                                     | 60                                   | —                          | —                                    |
| 4                 | WSC048E3          | 187-253       | 27.5                                     | 40                                   | —                          | —                                    |
| 4                 | WSC048E4          | 414-506       | 12.3                                     | 15                                   | —                          | —                                    |
| 4                 | WSC048EW          | 517-633       | 9.5                                      | 15                                   | —                          | —                                    |
| 5                 | WSC060E1          | 187-253       | 44.6                                     | 70                                   | —                          | —                                    |
| 5                 | WSC060E3          | 187-253       | 30.2                                     | 45                                   | —                          | —                                    |
| 5                 | WSC060E4          | 414-506       | 14.7                                     | 20                                   | —                          | —                                    |
| 5                 | WSC060EW          | 517-633       | 11.0                                     | 15                                   | —                          | —                                    |

(a) No optional motors available for 3-5 Tons. The standard motor for the single phase models is a Multispeed Direct Drive Motor. The standard motor for the 3-phase models is a Belt Drive Motor.

(b) Dual refrigeration system.

Zone# 4 VA Clinic  
1 Unit



## General Data

(5 - 6 Tons)  
High Efficiency

Table GD-6 — General Data

|                                              | 5 Ton Convertible Units |           |         | 6 Ton Convertible Units     |           |         |                       |           |         |
|----------------------------------------------|-------------------------|-----------|---------|-----------------------------|-----------|---------|-----------------------|-----------|---------|
|                                              | YHC060A1                |           |         | YHC060A3, A4, AW            |           |         | YHC072A3, A4, AW      |           |         |
| <b>Cooling Performance<sup>1</sup></b>       |                         |           |         |                             |           |         |                       |           |         |
| Gross Cooling Capacity                       | 62,100                  |           |         | 62,400                      |           |         | 73,000                |           |         |
| SEER / EER <sup>2</sup>                      | 11.8 / —                |           |         | 12.0 / —                    |           |         | — /11.5 <sup>10</sup> |           |         |
| Nominal CFM / ARI Rated CFM                  | 2,000 / 2,000           |           |         | 2,000/2,000                 |           |         | 2,400/2,100           |           |         |
| ARI Net Cooling Capacity                     | 59,000                  |           |         | 59,500                      |           |         | 70,000                |           |         |
| System Power (KW)                            | 5.73                    |           |         | 5.56                        |           |         | 6.09 <sup>10</sup>    |           |         |
| <b>Heating Performance<sup>1</sup></b>       |                         |           |         |                             |           |         |                       |           |         |
| Heating Models                               | Low                     | Medium    | High    | Low                         | Medium    | High    | Low                   | Medium    | High    |
| Heating Input (Btu)                          | 60,000                  | 80,000    | 130,000 | 60,000                      | 80,000    | 130,000 | 80,000                | 120,000   | 150,000 |
| Heating Output (Btu)                         | 48,000                  | 64,000    | 103,000 | 48,000                      | 64,000    | 104,000 | 64,800                | 97,200    | 121,500 |
| AFUE % <sup>5</sup>                          | 81                      | 81        | 80      | 81                          | 81        | 80      | 81                    | 81        | 81      |
| Steady State Efficiency (%) <sup>5</sup>     | 81                      | 81        | 80      | 81                          | 81        | 80      | 81                    | 81        | 81      |
| No. Burners                                  | 2                       | 2         | 3       | 2                           | 2         | 3       | 2                     | 3         | 3       |
| No. Stages                                   | 1                       | 1         | 1       | 1                           | 1         | 1       | 1                     | 1         | 2       |
| Gas Supply Line Pressure                     |                         |           |         |                             |           |         |                       |           |         |
| Natural (minimum/maximum)                    |                         | 4.5/14.0  |         |                             | 4.5/14.0  |         |                       | 4.5/14.0  |         |
| LP (minimum/maximum)                         |                         | 10.0/14.0 |         |                             | 10.0/14.0 |         |                       | 10.0/14.0 |         |
| Gas Connection Pipe Size (in.)               | 1/2                     | 1/2       | 1/2     | 1/2                         | 1/2       | 1/2     | 1/2                   | 1/2       | 3/4     |
| <b>Compressor</b>                            |                         |           |         |                             |           |         |                       |           |         |
| No./Type                                     | 1/Scroll                |           |         | 1/Scroll                    |           |         | 1/Scroll              |           |         |
| <b>Outdoor Sound Rating (dB)<sup>6</sup></b> |                         |           |         |                             |           |         |                       |           |         |
|                                              | 84                      |           |         | 84                          |           |         | 89                    |           |         |
| <b>Outdoor Coil - Type</b>                   |                         |           |         |                             |           |         |                       |           |         |
| Tube Size (in.) OD                           | Lanced                  |           |         | Lanced                      |           |         | Lanced                |           |         |
| Face Area (sq ft)                            | 0.3125                  |           |         | 0.3125                      |           |         | 0.3125                |           |         |
| Rows/FPI                                     | 10.96                   |           |         | 10.96                       |           |         | 17.00                 |           |         |
|                                              | 3/17                    |           |         | 3/17                        |           |         | 3/17                  |           |         |
| <b>Indoor Coil - Type</b>                    |                         |           |         |                             |           |         |                       |           |         |
| Tube Size (in.)                              | Lanced                  |           |         | Lanced                      |           |         | Lanced                |           |         |
| Face Area (sq ft)                            | 0.3125                  |           |         | 0.3125                      |           |         | 0.3125                |           |         |
| Rows/FPI                                     | 7.71                    |           |         | 7.71                        |           |         | 9.89                  |           |         |
| Refrigerant Control                          | 4/16                    |           |         | 4/16                        |           |         | 3/16                  |           |         |
| Drain Connection No./Size (in.)              | Short Orifice           |           |         | Short Orifice <sup>14</sup> |           |         | Short Orifice         |           |         |
|                                              | 1/4" NPT                |           |         | 1/4" NPT                    |           |         | 1/4" NPT              |           |         |
| <b>Outdoor Fan - Type</b>                    |                         |           |         |                             |           |         |                       |           |         |
| No. Used/Diameter (in.)                      | Propeller               |           |         | Propeller                   |           |         | Propeller             |           |         |
| Drive Type/No. Speeds                        | 1/22                    |           |         | 1/22                        |           |         | 1/26                  |           |         |
| CFM                                          | Direct/1                |           |         | Direct/1 <sup>13</sup>      |           |         | Direct/1              |           |         |
| No. Motors/HP                                | 3,170                   |           |         | 3,370                       |           |         | 6100                  |           |         |
| Motor RPM                                    | 1/0.33                  |           |         | 1/0.33                      |           |         | 1/0.70                |           |         |
|                                              | 1,075                   |           |         | 1,075                       |           |         | 1,075                 |           |         |

YSC 090A4RHA

YSC 060E4RHA



## General Data

## (5 - 6 Tons) High Efficiency

Table GD-6 — Continued

|                                                         | 5Ton Convertible Units             |                                    | 6Ton Convertible Units        |
|---------------------------------------------------------|------------------------------------|------------------------------------|-------------------------------|
|                                                         | YHC060A1                           | YHC060A3, A4, AW                   | YHC072A3, A4, AW              |
| <b>Direct Drive Indoor Fan - Type</b>                   | FC Centrifugal                     | FC Centrifugal                     | —                             |
| No. Used/Diameter (in.)                                 | 1/11 x 11 <sup>8</sup>             | 1/11 x 11 <sup>8</sup>             | —                             |
| Drive Type/No. Speeds                                   | Direct/2                           | Direct/2                           | —                             |
| No. Motors                                              | 1                                  | 1                                  | —                             |
| Motor HP (Standard/Oversized)                           | 0.90/1.00                          | 0.90/1.00                          | —                             |
| Motor RPM (Standard/Oversized)                          | 985/1,080 <sup>9</sup>             | 985/1,080 <sup>9</sup>             | —                             |
| Motor Frame Size (Standard/Oversized)                   | 48/48                              | 48/48                              | —                             |
| <b>Belt Drive Indoor Fan - Type</b>                     | FC Centrifugal                     | FC Centrifugal                     | FC Centrifugal                |
| No. Used/Diameter (in.)                                 | 1/11 x 11                          | 1/11 x 11                          | 1/12 x 12                     |
| Drive Type/No. Speeds                                   | Belt/Variable Sheave <sup>11</sup> | Belt/Variable Sheave <sup>11</sup> | Belt/Variable Sheave          |
| No. Motors                                              | 1                                  | 1                                  | 1                             |
| Motor HP (Standard/Oversized)                           | 1.00/—                             | 1.00/—                             | 1.00/2.00                     |
| Motor RPM (Standard/Oversized)                          | 1,750/—                            | 1,750/—                            | 1750,1750                     |
| Motor Frame Size (Standard/Oversized)                   | 56/—                               | 56/—                               | 56/56                         |
| <b>Filters - Type Furnished</b>                         | Throwaway                          | Throwaway                          | Throwaway                     |
| (No.) Size Recommended                                  | (2) 20 x 30 x 1 <sup>12</sup>      | (2) 20 x 30 x 1 <sup>12</sup>      | (4) 16 x 25 x 2 <sup>12</sup> |
| <b>Optional Hot Gas Reheat Coil - Type<sup>15</sup></b> | —                                  | Lanced                             | —                             |
| Tube Size (in.) OD                                      | —                                  | 0.375                              | —                             |
| Face Area (sq. ft.)                                     | —                                  | 2.22                               | —                             |
| Rows/FPI                                                | —                                  | 2/16                               | —                             |
| <b>Refrigerant Charge (Lbs of R-22)<sup>7</sup></b>     |                                    |                                    |                               |
| Standard                                                | 7.9                                | 8.4                                | 10.7                          |
| Optional Hot Gas Reheat Coil                            | —                                  | 10.7                               | —                             |

Notes:

- Cooling Performance is rated at 95 F ambient, 80 F entering dry bulb, 67 F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to  $\pm 20\%$  of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240.
- EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
- Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at ARI rated cfm.
- Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
- AFUE is rated in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with ARI Standard 270. For additional information refer to Table PD-90.
- Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
- YHC060A Oversized Motor Fan Diameter is 12 x 11.
- Motor RPM shown is low speed. High speed Motor RPM is 1,100/1,135.
- YHC072A when applied in a horizontal configuration has an 11.3 EER and 6.2 System Power (kW).
- Belt Drive Motor is not available for YHC060A1.
- 2" pleated filters is a factory installed option. 2" pleated filters is standard with the Dehumidification (Hot Gas Reheat) option.
- With Dehumidification (Hot Gas Reheat) option: Direct/2.
- TXV is supplied from the factory as standard with the Dehumidification (Hot Gas Reheat) option.
- Available on three-phase only.



# Weights

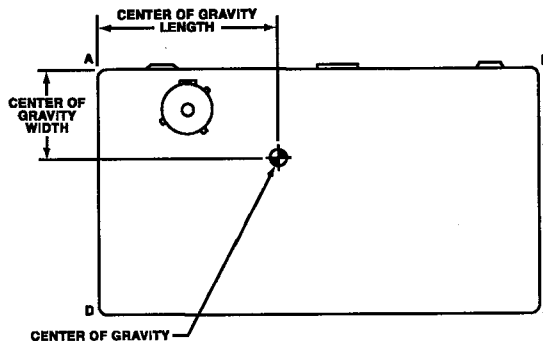
**Table W-1 — Maximum Unit And Corner Weights (Lbs) And Center Of Gravity Dimensions (In.)**

| Tons | Unit<br>Model No. | Maximum Weights (Lbs) <sup>2</sup> |      | Corner Weights (Lbs) <sup>1</sup> |     |     |     | Center of Gravity (In.) |       |
|------|-------------------|------------------------------------|------|-----------------------------------|-----|-----|-----|-------------------------|-------|
|      |                   | Shipping                           | Net  | A                                 | B   | C   | D   | Length                  | Width |
| 3    | YSC036A           | 572                                | 480  | 151                               | 124 | 96  | 109 | 32                      | 19    |
|      | YHC036A           | 589                                | 497  | 158                               | 128 | 101 | 110 | 32                      | 19    |
| 4    | YSC048A           | 597                                | 505  | 159                               | 130 | 108 | 109 | 33                      | 19    |
|      | YHC048A           | 631                                | 539  | 166                               | 133 | 114 | 126 | 32                      | 20    |
| 5    | YSC060A           | 614                                | 522  | 169                               | 134 | 106 | 114 | 32                      | 18    |
|      | YHC060A           | 666                                | 574  | 179                               | 140 | 119 | 136 | 32                      | 20    |
| 6    | YSC072A           | 878                                | 735  | 249                               | 193 | 132 | 161 | 39                      | 21    |
|      | YHC072A           | 915                                | 772  | 249                               | 198 | 141 | 184 | 39                      | 22    |
| 7½   | YSC090A           | 963                                | 820  | 273                               | 208 | 146 | 193 | 38                      | 22    |
|      | YHC092A           | 965                                | 822  | 277                               | 222 | 147 | 175 | 40                      | 21    |
| 8½   | YSC102A           | 1066                               | 923  | 306                               | 243 | 165 | 210 | 39                      | 22    |
|      | YHC102A           | 1042                               | 899  | 297                               | 243 | 165 | 194 | 40                      | 21    |
| 10   | YSC120A           | 1100                               | 957  | 310                               | 252 | 175 | 220 | 40                      | 22    |
|      | YHC120A           | 1063                               | 958  | 317                               | 261 | 177 | 202 | 41                      | 21    |
|      | YHC120A           | 1203                               | 1060 | 342                               | 277 | 197 | 245 | 40                      | 22    |

Notes:

1. Corner weights are given for information only.

2. Weights are approximate.



**Table W-2 — Factory-installed Options Net Weights (Lbs)<sup>1,2</sup>**

| Accessory                              | Net Weight |           |
|----------------------------------------|------------|-----------|
|                                        | 3-5 Tons   | 6-10 Tons |
| Economizer                             | 26         | 36        |
| Barometric Relief                      | 7          | 10        |
| Powered Exhaust                        | —          | 80        |
| Motorized Outside Air Damper           | 20         | 30        |
| Manual Outside Air Damper              | 16         | 26        |
| Roof Curb                              | 70         | 115       |
| Oversized Motor                        | 5          | 8         |
| Belt Drive Motor                       | 38         | —         |
| Smoke Detector, Return                 | 7          | 7         |
| Smoke Detector, Supply                 | 5          | 5         |
| Coil Guards                            | 12         | 20        |
| Hinged Doors                           | 10         | 12        |
| Powered Convenience Outlet             | 38         | 38        |
| Stainless Steel Heat Exchanger         | 4          | 6         |
| Through the Base Electrical            | 8          | 13        |
| Through the Base Gas                   | 5          | 5         |
| Unit Mounted Circuit Breaker           | 5          | 5         |
| Unit Mounted Disconnect                | 5          | 5         |
| Novar Control                          | 8          | 8         |
| Dehumidification (Hot Gas Reheat) Coil | 15         | 25        |

Notes:

1. Weights for options not listed are < 5 lbs.

2. Net weight should be added to unit weight when ordering factory-installed accessories.

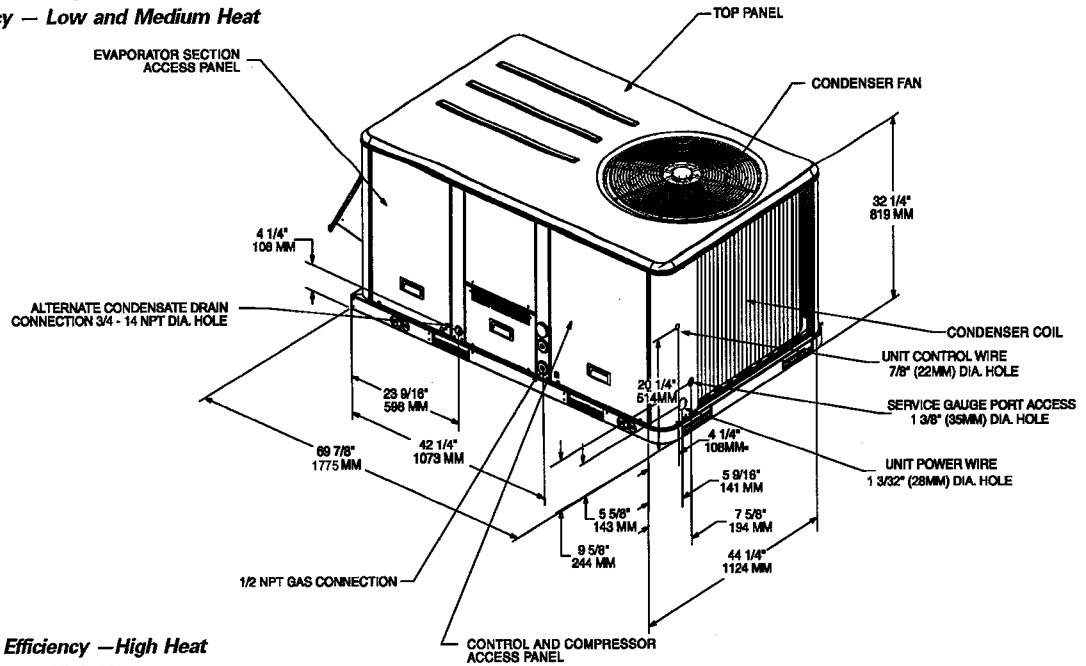


# Dimensional Data

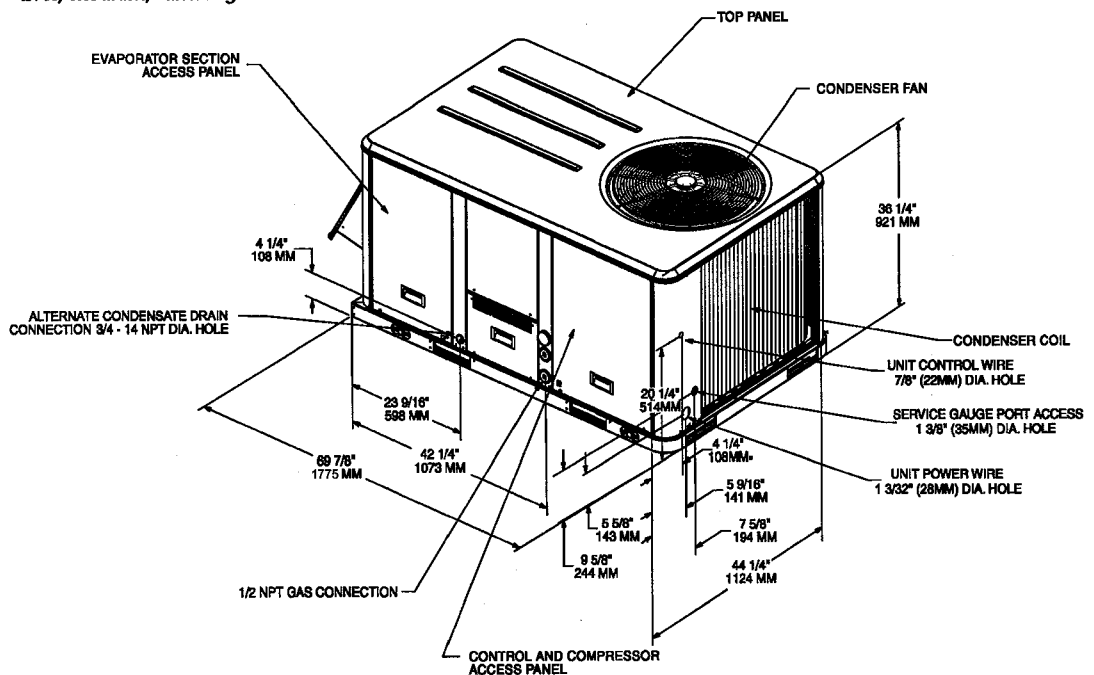
(3 - 5 Tons)

All dimensions are in inches/millimeters.

**3, 4, and 5 Ton Standard Efficiency — Low and Medium Heat**  
**3 and 4 Ton High Efficiency — Low and Medium Heat**



**3, 4, and 5 Ton Standard Efficiency — High Heat**  
**3 and 4 Ton High Efficiency — High Heat**  
**5 Ton — High Efficiency — Low, Medium, and High Heat**

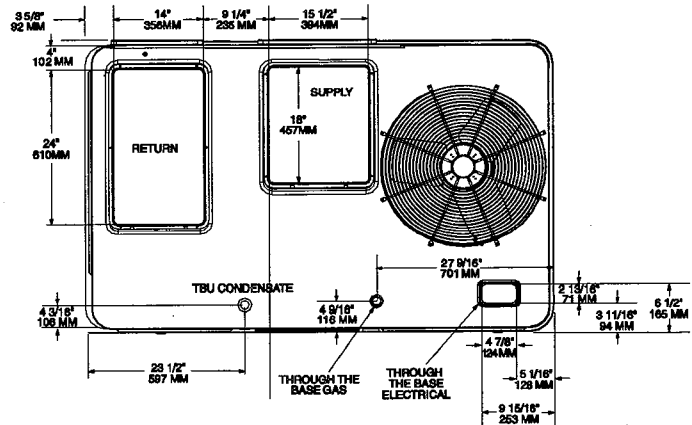


# Dimensional Data

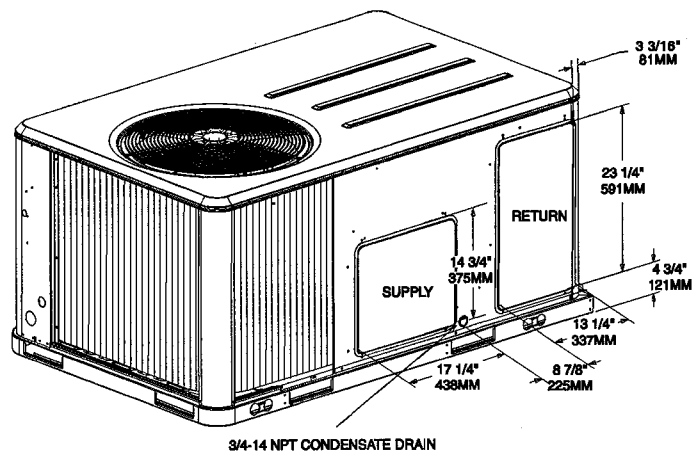
(3 - 5Tons)

All dimensions are in inches/millimeters.

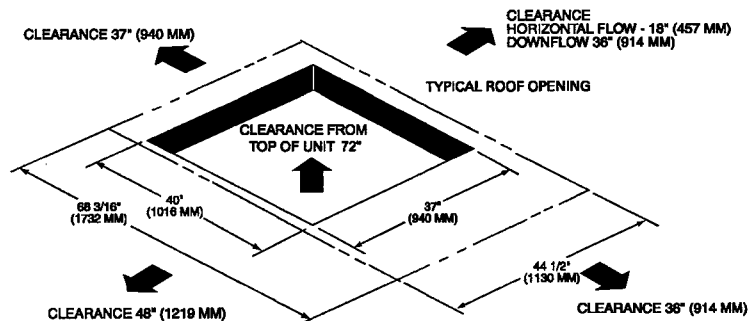
**3-5 Tons — Downflow Airflow Supply and Return;  
Through the Base Utilities**



**3-5 Tons — Horizontal Airflow Supply and  
Return**



**3-5 Tons — Unit Clearance and Roof Opening**

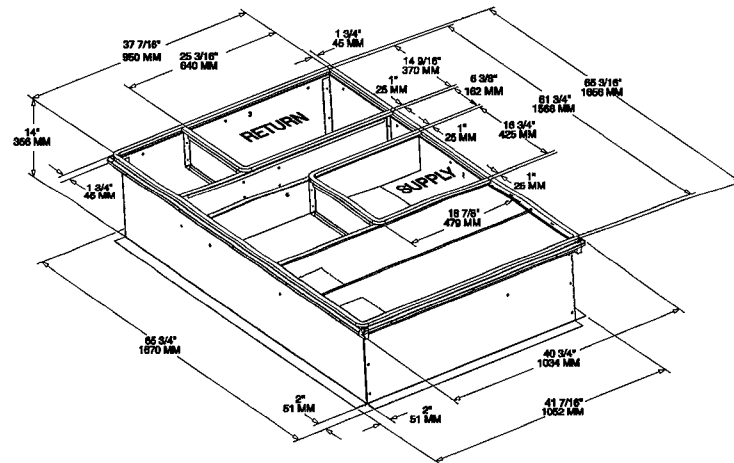




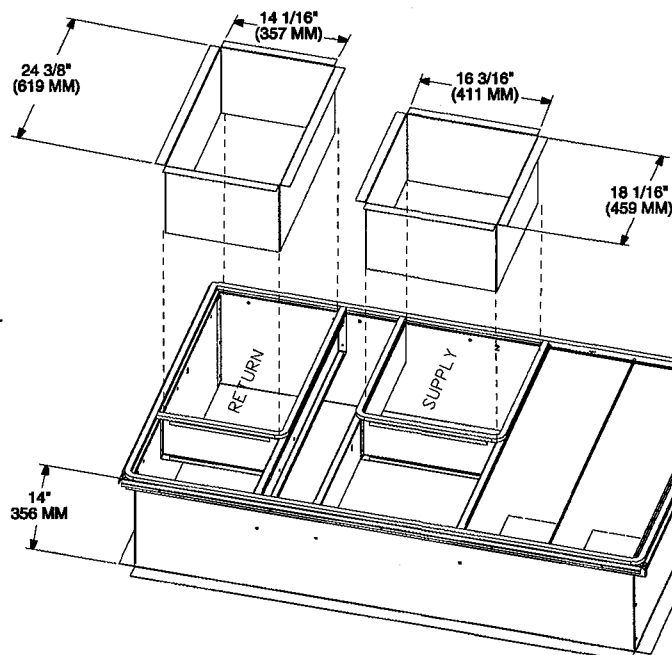
# **Dimensional Data**

**(3 - 5Tons)**

All dimensions are in inches/millimeters.



**3-5 Tons— Roof Curb**



ALL FLANGES 1 1/4" (32 MM)

**3-5 Tons — Downflow Duct Connections —  
Field Fabricated**



# Electrical Data (High Efficiency)

**Table ED-2 — Unit Wiring - High Efficiency**

| Tons | Unit Model No. | Unit Operating Voltage Range | Standard Indoor Fan Motor |                                                           | Oversize Indoor Fan Motor |                                                           | Belt Drive Indoor Fan Motor |                                                           |
|------|----------------|------------------------------|---------------------------|-----------------------------------------------------------|---------------------------|-----------------------------------------------------------|-----------------------------|-----------------------------------------------------------|
|      |                |                              | Minimum Circuit Ampacity  | Maximum Fuse Size or Maximum Circuit Breaker <sup>1</sup> | Minimum Circuit Ampacity  | Maximum Fuse Size or Maximum Circuit Breaker <sup>1</sup> | Minimum Circuit Ampacity    | Maximum Fuse Size or Maximum Circuit Breaker <sup>1</sup> |
| 3    | YHC036A1       | 187-253                      | 23.9                      | 40                                                        | 26.3                      | 40                                                        | —                           | —                                                         |
|      | YHC036A3       | 187-253                      | 17.2                      | 25                                                        | 19.6                      | 30                                                        | 19.9                        | 30                                                        |
|      | YHC036A4       | 414-506                      | 9.0                       | 15                                                        | 10.2                      | 15                                                        | 10.4                        | 15                                                        |
|      | YHC036AV       | 517-633                      | 7.1                       | 15                                                        | 7.7                       | 15                                                        | 7.7                         | 15                                                        |
| 4    | YHC048A1       | 187-253                      | 29.4                      | 45                                                        | 31.5                      | 50                                                        | —                           | —                                                         |
|      | YHC048A3       | 187-253                      | 21.2                      | 30                                                        | 23.3                      | 35                                                        | 22.6                        | 35                                                        |
|      | YHC048A4       | 414-506                      | 11.0                      | 15                                                        | 12.6                      | 15                                                        | 11.8                        | 15                                                        |
|      | YHC048AV       | 517-633                      | 8.3                       | 15                                                        | 9.1                       | 15                                                        | 8.5                         | 15                                                        |
| 5    | YHC060A1       | 187-253                      | 39.5                      | 60                                                        | 41.2                      | 60                                                        | —                           | —                                                         |
|      | YHC060A3       | 187-253                      | 30.0                      | 45                                                        | 31.7                      | 45                                                        | 28.8                        | 45                                                        |
|      | YHC060A4       | 414-506                      | 14.7                      | 20                                                        | 15.0                      | 20                                                        | 14.3                        | 20                                                        |
|      | YHC060AV       | 517-633                      | 11.8                      | 15                                                        | 12.4                      | 15                                                        | 11.4                        | 15                                                        |
| 6    | YHC072A3       | 187-253                      | 34.8                      | 50                                                        | 36.1                      | 50                                                        | —                           | —                                                         |
|      | YHC072A4       | 414-506                      | 17.5                      | 25                                                        | 18.1                      | 25                                                        | —                           | —                                                         |
|      | YHC072AV       | 517-633                      | 13.5                      | 20                                                        | 14.3                      | 20                                                        | —                           | —                                                         |
| 7½   | YHC092A3       | 187-253                      | 38.1                      | 50                                                        | 41.2                      | 50                                                        | —                           | —                                                         |
|      | YHC092A4       | 414-506                      | 19.4                      | 25                                                        | 20.9                      | 25                                                        | —                           | —                                                         |
|      | YHC092AV       | 517-633                      | 14.8                      | 15                                                        | 16.0                      | 20                                                        | —                           | —                                                         |
| 8½   | YHC102A3       | 187-253                      | 42.3                      | 50                                                        | 45.4                      | 60                                                        | —                           | —                                                         |
|      | YHC102A4       | 414-506                      | 21.4                      | 25                                                        | 22.9                      | 30                                                        | —                           | —                                                         |
|      | YHC102AV       | 517-633                      | 16.6                      | 20                                                        | 17.8                      | 20                                                        | —                           | —                                                         |
| 10   | YHC120A3       | 187-253                      | 48.6                      | 60                                                        | 52.6                      | 60                                                        | —                           | —                                                         |
|      | YHC120A4       | 414-506                      | 25.3                      | 30                                                        | 27.3                      | 35                                                        | —                           | —                                                         |
|      | YHC120AV       | 517-633                      | 19.9                      | 25                                                        | 21.6                      | 25                                                        | —                           | —                                                         |

Notes:

1. HACR breaker per NEC.



# Electrical Data

(High Efficiency)

Table ED-6 — Electrical Characteristics — Compressor Motor And Condenser Motor — High Efficiency

| Tons | Unit<br>Model No. | Compressor Motor |         |       |                 |      |                   | Condenser Fan Motors |     |       |                 |      |      |
|------|-------------------|------------------|---------|-------|-----------------|------|-------------------|----------------------|-----|-------|-----------------|------|------|
|      |                   | No.              | Volts   | Phase | HP <sup>2</sup> | RPM  | Amps <sup>1</sup> |                      | No. | Phase | HP <sup>2</sup> | Amps |      |
|      |                   |                  |         |       |                 |      | FLA               | LRA                  |     |       |                 | FLA  | LRA  |
| 3    | YHC036A1          | 1                | 208-230 | 1     | 2.8             | 3450 | 16.1              | 88.0                 | 1   | 1     | .20             | 1.5  | 2.5  |
|      | YHC036A3          | 1                | 208-230 | 3     | 2.8             | 3450 | 10.7              | 77.0                 | 1   | 1     | .20             | 1.5  | 2.5  |
|      | YHC036A4          | 1                | 460     | 3     | 2.8             | 3450 | 5.8               | 39.0                 | 1   | 1     | .20             | 0.6  | 1.3  |
|      | YHC036AW          | 1                | 575     | 3     | 2.8             | 3450 | 4.4               | 31.0                 | 1   | 1     | .20             | 0.5  | 1.2  |
| 4    | YHC048A1          | 1                | 208-230 | 1     | 3.5             | 3450 | 19.0              | 109.0                | 1   | 1     | .33             | 2.0  | 6.6  |
|      | YHC048A3          | 1                | 208-230 | 3     | 3.5             | 3450 | 12.5              | 88.0                 | 1   | 1     | .33             | 2.0  | 6.6  |
|      | YHC048A4          | 1                | 460     | 3     | 3.5             | 3450 | 6.5               | 44.0                 | 1   | 1     | .33             | 1.2  | 2.5  |
|      | YHC048AW          | 1                | 575     | 3     | 3.5             | 3450 | 4.9               | 34.0                 | 1   | 1     | .33             | 0.7  | 1.5  |
| 5    | YHC060A1          | 1                | 208-230 | 1     | 4.5             | 3450 | 25.0              | 169.0                | 1   | 1     | .33             | 2.0  | 6.6  |
|      | YHC060A3          | 1                | 208-230 | 3     | 4.5             | 3450 | 17.4              | 124.0                | 1   | 1     | .33             | 2.0  | 6.6  |
|      | YHC060A4          | 1                | 460     | 3     | 4.5             | 3450 | 7.8               | 59.6                 | 1   | 1     | .33             | 1.2  | 2.5  |
|      | YHC060AW          | 1                | 575     | 3     | 4.5             | 3450 | 6.2               | 49.4                 | 1   | 1     | .33             | 0.9  | 1.5  |
| 6    | YHC072A3          | 1                | 208-230 | 3     | 5.7             | 3450 | 20.7              | 156                  | 1   | 1     | .70             | 3.85 | 9.30 |
|      | YHC072A4          | 1                | 460     | 3     | 5.7             | 3450 | 10                | 75                   | 1   | 1     | .70             | 2.50 | 5.80 |
|      | YHC072AW          | 1                | 575     | 3     | 5.7             | 3450 | 8.2               | 54                   | 1   | 1     | .70             | 1.54 | 3.60 |
| 7½   | YHC092A3          | 2                | 208-230 | 3     | 3.5/3.3         | 3450 | 12.4/12.4         | 88/88                | 1   | 1     | .70             | 3.85 | 9.30 |
|      | YHC092A4          | 2                | 460     | 3     | 3.5/3.3         | 3450 | 6.4/5.8           | 44/44                | 1   | 1     | .70             | 2.50 | 5.80 |
|      | YHC092AW          | 2                | 575     | 3     | 3.5/3.3         | 3450 | 4.8/4.8           | 34/34                | 1   | 1     | .70             | 1.54 | 3.60 |
| 8½   | YHC102A3          | 2                | 208-230 | 3     | 3.9/3.5         | 3450 | 14.7/12.4         | 91/88                | 1   | 1     | .75             | 4.0  | 9.4  |
|      | YHC102A4          | 2                | 460     | 3     | 3.9/3.5         | 3450 | 7.1/6.4           | 50/44                | 1   | 1     | .75             | 2.8  | 6.8  |
|      | YHC102AW          | 2                | 575     | 3     | 3.9/3.5         | 3450 | 5.4/4.8           | 37/34                | 1   | 1     | .75             | 2.4  | 6.2  |
| 10   | YHC120A3          | 2                | 208-230 | 3     | 4.8/3.5         | 3450 | 17.3/12.4         | 124/88               | 1   | 1     | .75             | 4.0  | 9.4  |
|      | YHC120A4          | 2                | 460     | 3     | 4.8/3.5         | 3450 | 9.0/6.4           | 59.6/44              | 1   | 1     | .75             | 2.8  | 6.8  |
|      | YHC120AW          | 2                | 575     | 3     | 4.8/3.5         | 3450 | 7.1/4.8           | 49.4/34              | 1   | 1     | .75             | 2.4  | 6.2  |

Notes:

1. Amp draw for each motor; multiply value by numbers of motors to determine total amps.
2. HP for each compressor.



# Performance Data (5 Ton) High Efficiency

**Table PD-12 — Gross Cooling Capacities (MBH) 5 Ton Single Phase YHC060A1**

|                |                              | Ambient Temperature (F) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                              | 85                      |      |      |      |      |      | 95   |      |      |      |      |      | 105  |      |      |      |      |      | 115  |      |      |      |      |      |
| CFM<br>Airflow | Enter.<br>Dry<br>Bulb<br>(F) | 61                      |      | 67   |      | 73   |      | 61   |      | 67   |      | 73   |      | 61   |      | 67   |      | 73   |      | 61   |      | 67   |      | 73   |      |
|                | MBH                          | SHC                     | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  | MBH  | SHC  |      |
|                | Entering Wet Bulb (F)        |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1800           | 75                           | 56.2                    | 48.2 | 64.3 | 37.8 | 68.4 | 24.8 | 51.4 | 45.6 | 60.5 | 35.2 | 66.7 | 23.5 | 46.8 | 43.2 | 55.3 | 32.8 | 63.9 | 21.9 | 42.2 | 40.8 | 50.0 | 31.0 | 59.9 | 20.1 |
|                | 80                           | 57.6                    | 57.6 | 64.6 | 46.6 | 69.3 | 34.7 | 53.7 | 53.7 | 60.7 | 44.8 | 67.3 | 33.1 | 49.8 | 49.8 | 55.5 | 42.3 | 64.2 | 31.5 | 45.9 | 45.9 | 50.5 | 39.9 | 60.1 | 29.6 |
|                | 85                           | 62.2                    | 62.2 | 65.2 | 55.8 | 70.1 | 42.6 | 58.4 | 58.4 | 61.4 | 54.5 | 68.0 | 42.2 | 54.5 | 54.5 | 56.5 | 52.0 | 64.6 | 40.9 | 50.6 | 50.6 | 51.6 | 49.7 | 60.3 | 39.0 |
|                | 90                           | 65.8                    | 65.8 | 66.3 | 64.9 | 70.9 | 50.8 | 63.0 | 63.0 | 63.0 | 63.0 | 68.2 | 52.0 | 59.3 | 59.3 | 59.2 | 59.2 | 65.0 | 49.9 | 55.3 | 55.3 | 55.3 | 60.7 | 48.5 |      |
| 2000           | 75                           | 57.8                    | 51.4 | 65.2 | 38.8 | 69.6 | 25.4 | 52.9 | 48.8 | 61.8 | 37.0 | 67.3 | 23.9 | 48.2 | 46.3 | 56.5 | 34.6 | 64.6 | 22.4 | 43.3 | 43.3 | 51.2 | 32.1 | 60.9 | 20.7 |
|                | 80                           | 60.3                    | 60.3 | 65.6 | 48.8 | 69.8 | 35.2 | 56.2 | 56.2 | 62.1 | 47.6 | 68.0 | 34.6 | 52.1 | 52.1 | 56.9 | 45.1 | 65.0 | 32.9 | 48.1 | 48.1 | 51.7 | 42.7 | 61.2 | 31.1 |
|                | 85                           | 64.4                    | 64.4 | 66.3 | 58.7 | 70.7 | 43.8 | 61.2 | 61.2 | 63.0 | 58.1 | 68.7 | 43.9 | 57.1 | 57.1 | 58.2 | 56.0 | 65.4 | 42.8 | 53.0 | 53.0 | 53.0 | 61.4 | 41.5 |      |
|                | 90                           | 67.6                    | 67.6 | 67.6 | 71.6 | 72.2 | 52.5 | 65.2 | 65.2 | 65.2 | 65.2 | 69.5 | 53.3 | 62.0 | 62.0 | 62.0 | 62.0 | 66.0 | 52.6 | 58.0 | 58.0 | 58.0 | 62.0 | 51.8 |      |
| 2200           | 75                           | 59.4                    | 54.5 | 65.7 | 40.1 | 69.3 | 25.6 | 54.3 | 51.9 | 62.7 | 38.7 | 67.7 | 24.3 | 49.6 | 49.4 | 57.6 | 36.3 | 65.1 | 22.8 | 45.0 | 45.0 | 52.2 | 33.8 | 61.6 | 21.1 |
|                | 80                           | 62.4                    | 62.4 | 66.3 | 50.7 | 70.3 | 35.8 | 58.4 | 58.4 | 63.1 | 50.1 | 68.5 | 35.4 | 54.2 | 54.2 | 58.2 | 47.9 | 65.7 | 34.2 | 50.0 | 50.0 | 52.9 | 45.4 | 61.9 | 32.5 |
|                | 85                           | 66.0                    | 66.0 | 67.3 | 61.2 | 71.2 | 44.8 | 63.3 | 63.3 | 64.2 | 61.3 | 69.4 | 45.3 | 59.4 | 59.4 | 59.9 | 59.8 | 66.1 | 44.6 | 55.2 | 55.2 | 55.2 | 62.2 | 43.7 |      |
|                | 90                           | 68.9                    | 68.9 | 68.9 | 68.9 | 72.2 | 54.0 | 66.9 | 66.9 | 66.9 | 66.9 | 70.2 | 55.4 | 64.0 | 64.0 | 64.0 | 64.0 | 66.8 | 55.1 | 60.4 | 60.4 | 60.4 | 60.4 | 63.0 | 54.6 |
| 2400           | 75                           | 60.6                    | 57.4 | 66.1 | 41.5 | 69.7 | 26.0 | 55.6 | 54.9 | 63.4 | 40.3 | 68.1 | 24.7 | 50.8 | 50.8 | 58.5 | 38.0 | 65.5 | 23.2 | 46.5 | 46.5 | 53.0 | 35.5 | 62.1 | 21.5 |
|                | 80                           | 64.0                    | 64.0 | 67.0 | 52.5 | 70.6 | 38.5 | 60.4 | 60.4 | 63.9 | 52.4 | 69.0 | 36.1 | 56.1 | 56.1 | 59.2 | 50.5 | 66.1 | 35.8 | 51.8 | 51.8 | 54.0 | 48.1 | 62.5 | 33.8 |
|                | 85                           | 67.2                    | 67.2 | 68.0 | 63.5 | 71.5 | 50.9 | 64.9 | 64.9 | 65.3 | 64.2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |