BLOCK 869.41 LOT 1 QUALIFICATION CODE _____ ADDRESS (SITE) 52 Robbins St PERMIT NO. 13-0548

CONSTRUCTION PERMIT APPLICATION C13-000509

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

I. IDENTIFICATION

1. Proposed Work Site at: 52 Robbins St
2. Name of Owner in Fee: Paul Buchicchio
   Tel [redacted] e-mail _____
   Address _____ Brick _____ (street / municipality / zip code)
3. Ownership in Fee: Public _____ Private _____
4. Principal Contractor: _____ Tel. (___) _____
   Address _____ e-mail _____
   License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
5. NJR Home Services
   1415 Wyckoff Rd., Wall NJ 07719
   Tel. 1.877.466.3657 Fax. 732-938-3010
   Contractor License No. 13VH00361500
   Federal Employee No. 22-3609806
6. JOSEPH MARAZZO TEL. 732-919-8090

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	$ 40	✓	
2. Electrical	80		
3. Plumbing			
4. Fire Protection	45	✓	
5. Elevator Devices			
6. Subtotal			
7. Less 20% for State Plan Review	$		
8. Subtotal	$		
9. State Permit Surcharge Fee			
10. Subtotal	$ 12		
11. Cert. of Occupancy			
12. Other	177		
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)

FOR OFFICE USE ONLY (Optional)

	Est. Cost	Plans Rec'd	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Resubmission Dates Rejection	Re-viewer
☐ Building		JAN 23 2013							
☐ Electrical					1-29-13	JS			
☐ Plumbing					1/25/13				
☐ Fire Protection					1/25/13	MD			
☐ Elevator									
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/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPGas Tanks
12. ☐ Fire Alarm

CERTIFICATION IN LIEU OF OATH

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

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

Mark the following applicable boxes:

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

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

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

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

C. ( ) I further certify that I will perform or supervise the following work:
C.1. ( ) Building C.2. ( ) Fire Protection

I further certify that I will perform the following work:
C.3. ( ) Electrical C.4. ( ) Plumbing

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

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

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

Signature _____ Date _____

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

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

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

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

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

( ) Check if contractor.

Agent Name **NJR Home Services**
Address **1415 Wyckoff Rd., Wall NJ 07719**
Tel. 1.877.466.3657 Fax. 732-938-3010
Contractor License No. 13VH00361500
Telephone (**Federal Employee No. 22-3609806**
Signature **JOSEPH MARAZZO TEL. 732-919-8090**

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

Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 03/20/2013
Control Number C-13-000508
Permit Number 13-0548
Permit Issue Date 02/01/2013
Certificate Number 13-0548

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 52 ROBBINS ST. Brick Township, NJ Block: 869.41 Lot: 1 Qual:

Owner in Fee: BUCHICCHIO, PAUL & ELIZABETH

Owner Address: 52 ROBBINS ST BRICK NJ 08724

Telephone:

Contractor NJR HOME SERVICES

Address 1415 WYCKOFF ROAD WALL NJ 07719

Telephone: (732) 919-8172 Fax: (732) 938-3010

License Number or Builders Registration Number: 13VH00361500 16095 Federal Emp. Number: 22-3609806

Home Warranty Number:

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification:

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: FURNACE, HOT WATER HEATER

Certificate Comments:

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

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

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

☐ **Temporary Certificate of Compliance**
The following conditions must be met no later than
or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**
This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

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

☐ **Certificate of Clearance - Asbestos Abatement**
This serves notice that based on written certification, asbestos abatement was performed to the following extent.

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

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

☐ **Temporary Certificate of Occupancy**
The following conditions must be met no later than:
or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:

Construction Official

Fee: $0.00
Check Number:
Collected By:

Date Printed: 03/20/2013 U.C.C. F280 (rev. 08/05)

1/29/13 GM Savoy

2/1/13

CONSTRUCTION PERMIT

Date Issued
Control # C-13-000508
Permit # 13-0548

IDENTIFICATION Block: 869.41 Lot: 1 Qualifier

Work Site Location: 52 ROBBINS ST. Brick Township, NJ

Owner in Fee: BUCHICCHIO, PAUL & ELIZABETH
52 ROBBINS ST BRICK NJ 08724

Telephone:

Contractor: NJR HOME SERVICES
Address: 1415 WYCKOFF ROAD WALL NJ 07719

Telephone: (732) 919-8172
Lic. No. or Bldrs. Reg. No. 16095
Federal Employee. No. 22-3609806

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:

FURNACE, HOT WATER HEATER

Note: If constuction 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: $7,500

Daniel F. Newman Jr. — Construction Official

Date: 1/29/13

PAYMENTS (Office Use Only)

Building	$0
Electrical	$40
Plumbing	$80
Fire Protection	$45
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$12
CO Fee	
Other	$0
Total 25367	$177
Check No.	
Cash	$0
Credit	$0
Collected By	

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

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

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.

02/01/13 [illegible]

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.

ELECTRIC $40.00
PLUMBING $80.00
FIRE $45.00
DCA $12.00
CHECK $177.00

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

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

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

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

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

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

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

PLUMBING SUBCODE
TECHNICAL SECTION

Date Received 2/1/13
Control #
Date Issued
Permit # 13-0548

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

Block 869.41 Lot 1 Qualification Code

Work Site Location 52 Robbins St
Brick

Owner in Fee: Paul Buchicchio

Tel. ([redacted]) e-mail

Address

Contractor: NJR Plumbing Services (street, municipality) Tel. (732) 938-1155 (zip code)

Address 1415 Wyckoff Road
Wall NJ 07719 e-mail

Contractor License No. 9692 Exp. Date 6/13

Home Improvement Contractor Registration No. or Exemption Reason (if applicable) 13VH00361500

Federal Emp. ID No. 22-3609806 FAX: (732) 938-3010

B. PLUMBING CHARACTERISTICS

Use Group Present x Proposed

Building Sewer Size Public Sewer Private Septic

Water Service Size Public Water Private Well

Est. Cost of Plumbing Work $ 2500.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[ ] No Plans Required
[ ] Partial -Underslab Utilities Approved
Date: Approved by:
[ ] Plumbing Plans Approved
Date: 1/25/13 Approved by:
Joint Plan Review Required:
[ ] Bldg. [ ] Elec. [ ] Fire. [ ] Elev.

SUBCODE APPROVAL for PERMIT
Date: 1-29-13
Approved by: JJ

SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [✓] CA
Date: 3-19-13
Approved by: JJ

INSPECTIONS Type:	Dates (Month/Day) Failure	Failure	Approval	Initial
Slab				
Rough				
Water				
Sewer				
Fixtures				
Gas Equipment				
Gas Piping				
LPGas Tank				
Fuel Oil Piping				
Solar				
TCO				
Final	2/15/13	3/5/13	3/18/13	

C. CERTIFICATION IN LIEU OF OATH

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

Applicant sign/Contractor sign and seal here:

Print name here: Ed Gaston

[ ] Licensed Plumbing Contractor [ ] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
DIRECT REPLACEMENT OF GAS FURNACE & WATER HTR

QTY.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
	Water Closet	$
	Urinal/Bidet	
	Bath Tub	
	Lavatory	
	Shower	
	Floor Drain	
	Sink	
	Dishwasher	
	Drinking Fountain	
	Washing Machine	
	Hose Bibb	
1	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	
1	Other furnace	

80/77

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

2/15/13 - MP

① - CONDENSATE DRAIN REROUTED ON AHU-1

3/5/13 - MP

① - LOOP TRAP REROUTED ON CONDENSATE FOR AHU-1 EXHAUST

(P) Tech Back

Corner East

FIRE PROTECTION SUBCODE
TECHNICAL SECTION

Date Received 2/1/13
Control #

Date Issued
Permit # 13-0548

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

Block 869.41 Lot 1 Qualification Code

Work Site Location 52 Robins St
Brick

Owner in Fee: Paul Buchicchio

Tel. ([redacted] nail

Address

Contractor: NJR HOME SERVICES (street, municipality) Tel. (732) 919-8090

Address 1415 WYCKOFF RD
WALL NJ 07719 e-mail

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

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

Fire Alarm Contractor No. Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 13VH00361500

Federal Emp. ID No. 22-3609806 FAX: (732) 938-3010

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present [x] Proposed [ ]

Constr. Class: Present [ ] Proposed [ ]

Heating System: [x] New OR [ ] Modification to Existing OR [ ] Conversion OR [ ] Replacement

Fuel Type: [x] Gas [ ] Oil [ ] Electric [ ] Solar [ ] Other

Location:

Total Cost of Fire Protection Work $ 2500.00

Fuel Storage Tank:
Fuel Type: [ ] Flammable OR [ ] Combustible
Capacity

Fire Alarm System: [ ] New OR [ ] Existing
Location of Panel:

Fire Suppression/Standpipe System:
[ ] New OR [ ] Existing
Location of Main Control Valve:

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[ ] No Plans Required
[ ] Partial -Underslab Utilities Approved
Date: Approved by:
[x] Fire Protection Plans Approved
Date: 1/15/13 Approved by: [illegible]
Joint Plan Review Required:
[ ] Bldg. [ ] Elec. [ ] Plumb. [ ] Elev.

SUBCODE APPROVAL for PERMIT
Date: 2-2-13
Approved by: [illegible]

SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [x] CA
Date: 2/20/13
Approved by: [illegible]

INSPECTIONS Type:	Dates (Month/Day) Failure	Failure	Approval	Initial
Alarm System				
Suppression Sys.				
Standpipe				
Fire Pump				
Pre-Eng. System				
Mechanical			2/15/13	[illegible]
Smoke Control				
TCO				
Flam/Combust Tanks				
Fireplace Venting				
Final			2/15/13	[illegible]
Other				

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.

Applicant sign/Contractor sign and seal here:

Print name here:

D. TECHNICAL SITE DATA [ ] Certified Contractor [ ] Exempt Applicant

DESCRIPTION OF WORK:
DIRECT REPLACEMENT OF GAS FURNACE & WATER HTR

Water Supply Source

Method of Alarm/Suppression System Supervision

	NUMBER	FEE (Office Use Only) $
Flammable/Combustible Tanks		
Alarm Systems		
[ ] System		
[ ] 110v Interconnected		
[ ] 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_2 Suppression		
Foam Suppression		
FM200 Suppression		
Other		
Other Systems		
Kitchen Hood Exhaust System		
Smoke Control System		
Fuel-Fired Appliances [1] Gas [ ] Oil [ ] Solid	1	
Fireplace Venting/Metal Chimney		
Other		
Administrative Surcharge $		
Minimum Fee $		
State Permit Surcharge Fee $		
TOTAL FEE $		

ELECTRICAL SUBCODE
TECHNICAL SECTION

Date Received 2/1/13
Control #
Date Issued
Permit # 13-0548

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

Block 869.41 Lot 1 Qualification Code

Work Site Location 52 Robbins St
Brick

Owner in Fee: Paul Buchicchio

Tel. ([redacted] e-mail

Address

Contractor: NJR HOME SERVICES (street) (municipality) Tel. 732 (938-1105 (zip code)

Address 1415 WYCKOFF RD e-mail
WALL, NJ 07719

Contractor License No. 12312 Exp. Date 3/15

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 13VH00361500

Federal Emp. ID No. 22-3609806 FAX 732 938-3010

B. ELECTRICAL CHARACTERISTICS

Use Group Present x Proposed

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

Building Occupied as Utility Co.

Est. Cost of Elec. Work $ 2500.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[✓] No Plans Required

[ ] Partial -Underslab Utilities Approved
Date: Approved by:

[ ] Electric Plans Approved
Date: Approved by:

Joint Plan Review Required:
[ ] Bldg. [ ] Plumb. [ ] Fire. [ ] Elev.

SUBCODE APPROVAL for PERMIT
Date: 1-29-13
Approved by: JJ

SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [ ] CA
Date: 2-19-13
Approved by: JS

INSPECTIONS Type:	Dates (Month/Day) Failure	Failure	Approval	Initial
Rough				
Barrier-Free				
Trench				
Temp. Serv.				
Constr. Serv.				
TCO				
Other				
Service				
Final			2-15-13	DD
Barrier-Free				

Temp. Cut-in-Card Date Issued
Final Cut-in-Card Date Issued
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 sign/Contractor sign and seal here: Daniel J Neary

Print name here: Daniel J Neary

[X] Licensed Elec. Contractor [ ] Certif'd Landscape Irrigation Cont'r [ ] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:
DIRECT REPLACEMENT OF GAS FURNACE

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	
1		furnace	

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

NJR Home Services

Lot - 1
Block-869.41

New Unit-

- Input- 80k
- Output-77k
- Efficiency-97%

Old Unit-

- Input-92k
- Output-72k
- Efficiency-80%

Thank you
Sandy ☺

CHIMNEY VERIFICATION FOR REPLACEMENT OF FUEL-FIRED EQUIPMENT

BLOCK 869.41 LOT 1 QUALIFICATION CODE _____ PERMIT # _____

WORK SITE ADDRESS 52 Robins St

Owner in Fee Paul Buchicchio

Verifying Individual Joseph Marazzo Company NJR Home Services

Address 1415 Wyckoff Rd (Street) Wall (City) 07719 (State / Zip Code)

Tel: [redacted] Fax: (732) 938-3010

Check the Appropriate Box(es):

Type of Replacement:

- [ ] Oil to Gas Conversion
- [✓] Gas to Oil Conversion
- [✓] Gas Appliance Replacement
- [ ] Oil to Oil Replacement
- [ ] Other _____

Existing Vent/Chimney: **Size** _____

- [ ] "B" Label Vent
- [ ] "L" Label Vent
- [ ] Flexible Liner
- [✓] Power Vent/Exhauster

- [ ] Chimney-Interior
- [ ] Chimney-Exterior
- [ ] Masonry Chimney-Tile Lined
- [ ] Masonry Chimney-Unlined
- [ ] Other _____

	Type	Fuel Type	BTU Rating (input/hour)
Appliance 1:	H.E.	Oil / Gas / Other: Gas	80K
Appliance 2:	H.E.	Oil / Gas / Other: Gas	40K
Appliance 3:		Oil / Gas / Other:	

CHIMNEY LINER

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

Manufacturer: _____ Model: _____ UL Listing: _____

Material of Liner: Stainless Steel _____ Aluminum _____

Size of Appliance Vent: _____ Size of Liner: _____ Height of Chimney: _____

Length of Connector: _____ Vent Connector Rise: _____

How does the appliance vent? [ ] Natural Draft [ ] Fan-assisted [ ] Other: _____

PLEASE SIGN ONE OF THE FOLLOWING VERIFICATION STATEMENTS

For Oil or Coal to Gas Conversions:

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

_____ Signature _____ Date

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

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

[signature] Signature 1/18/19 Date

Direct Vent Appliance:

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

_____ Signature _____ Date

Verification Not Submitted:

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

_____ Signature _____ Date

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

All applicable information requested on this form must be supplied.
This form may not be submitted by a homeowner in lieu of the required inspection.

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

New Jersey Office of the Attorney General

Division of Consumer Affairs
Board of Examiners of Electrical Contractors
124 Halsey Street, 6th Floor, Newark, NJ 07102

JEFFREY S. CHIESA
Attorney General

ERIC T. KANEFSKY
Acting Director

Mailing Address:
P.O. Box 45006
Newark, NJ 07101
(973) 504-6410

November 27, 2012

TO WHOM IT MAY CONCERN

Our records indicate that the holder of License and Business Permit No.12312A has applied to the Board of Electrical Contractors for a pressure seal which has not yet been issued to him/her by the vendor.

Please accept this sealed letter as an interim device pending the furnishing of a seal to:

Daniel J. Neary
NJR Home Services
1415 Wyckoff Road
Wall, NJ 07719

This letter will be rendered invalid 180 days after the date of its issuance.

Sincerely,

David Freed
Acting Executive Director

DF:es

THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER, WITH A MULTI-COLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY.

NOT AN ELECTRICIAN'S OR PLUMBER'S LICENSE

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Division of Consumer Affairs

HAS REGISTERED

NJR Home Services Company
Joseph Marazzo
1415 Wyckoff Road
Wall NJ 07719

FOR PRACTICE IN NEW JERSEY AS A(N): Home Improvement Contractor

11/08/2012 TO 12/31/2013
VALID

13VH00361500
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

TRANE

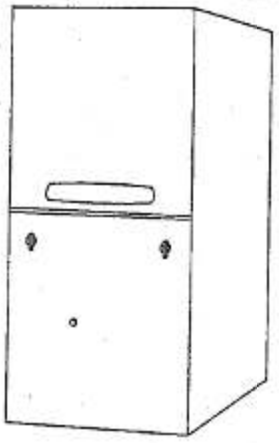
Upflow/ Horizontal Left, Downflow/ Horizontal Right Variable Speed Two Stage Condensing Gas-Fired Furnace

XV 95

TUH2B060A9V3VA
~~TUH2B080A9V3VA~~
TUH2B080A9V4VA
~~TUH2C100A9V4VA~~
TUH2C100A9V5VA
TUH2D120A9V5VA
TDH2B060A9V3VA
TDH2B080A9V3VA
TDH2B080A9V4VA
TDH2C100A9V4VA
TDH2D120A9V5VA

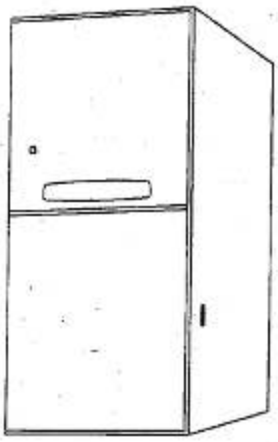
Direct Vent with
Variable Speed Blower
Variable Speed Inducer

*UH-A9V-V



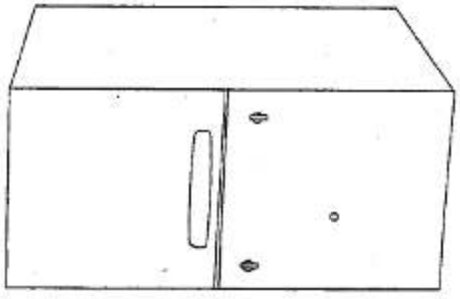
UPFLOW

*DH-A9V-V

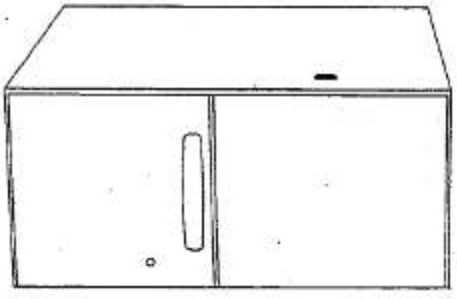


DOWNFLOW

UPFLOW/HORIZONTAL



DOWNFLOW/HORIZONTAL



PUB. NO. 22-1814-07

TRANE

General Features

NATURAL GAS MODELS
Central Heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

SAFE OPERATION
The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide additional safety.

QUICK HEATING
Durable, cycle tested, heavy gauge **aluminized steel heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower,** to increase efficiency and provide a positive discharge of gas fumes to the outside.

BURNERS
Multiport Inshot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** without changing burners.

INTEGRATED SYSTEM CONTROL
Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. Also contains connection points for E.A.C./ Humidifier.

AIR DELIVERY
The variable speed blower motor has sufficient airflow for most heating and cooling requirements and will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed.

SECONDARY HEAT EXCHANGER
The XV95 has a special type 29-4C™ stainless steel secondary heat exchanger to reclaim heat from flue gases which would normally be lost instead.

STYLING
Heavy gauge steel and "wrap-around" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. The heat exchanger section of the cabinet is completely lined with foil faced fiberglass insulation. This results in quiet and efficient operation due to the excellent acoustical and insulating qualities of fiberglass. Built-in bottom pan and alternate bottom, left or right side return air connection provision.

FEATURES AND GENERAL OPERATION
The XV95 High Efficiency Gas Furnaces utilize an Adaptive Heat Up Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

a. Low energy power venter
b. Vent proving pressure switch.

Pub. No. 22-1814-07

Contents

TRANE

Features and Benefits

XV 95 STANDARD EQUIPMENT

- Variable Speed Blower Motor
- Silicon Nitride Igniter with adaptive heat up
- Variable speed induced draft blower
- Direct/Non-Direct vent option
- Fused 24 volt control circuit
- Manual reset burner safety switches
- Power supply 115/1/60
- Convertible to horizontal on left side
- 2-stage gas valve
- PVC venting-1 or 2 pipe option
- Accessory hook-up capability
- Integrated solid state control with self-diagnostics
- Attractive color accents
- Heavy gauge aluminized steel heat exchanger
- Multi-port in-shot burners
- Quiet induced draft blower
- Lite Port™ extended system diagnostics
- Stored fault code history in micro processor nonvocatile memory
- Cleanable high velocity filters (upflow only)
- Hinged blower door*
- Perfect fit door latches*
- Insulated blower door*
- Gasketed blower door*
- Complete front service access
- Left/right gas connection
- Adjustable fan off times
- Optional L.P conversion kit
- Selectable cooling fan off delay eliminates need for BAY24X045 time delay kit

* (Upflow only)

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Features and Benefits

XV 95 OPTIONAL EQUIPMENT

Thermostat, 2-Stage Heat / 1-Stage Cooling	TAYSTAT241	[ ]
Thermostat, Media Programmable 2-Stage Heating	TAYSTAT302C	[ ]
Thermostat, Mechanical Heating Only With Fan Switch	TAYSTAT303C	[ ]
Thermostat, Heating/Cooling Single Stage (Mounts Horizontally)	AY28X092	[ ]
Thermostat, Heating/Cooling Single Stage (Mounts Vertically)	BAYSTAT305	[ ]
Thermostat, Media Programmable 1-Stage Heating/1-Stage Cooling	TAYSTAT300C	[ ]
Propane Conversion Kit	BAYLPKT210A	[ ]
Media Air Filter, "Perfect Fit" High Efficiency (14-1/2" Wide Gas Furnace)	TFM145A9FR0	[ ]
Media Air Filter, "Perfect Fit" High Efficiency (17-1/2" Wide Gas Furnace)	TFM175A9FR0	[ ]
Media Air Filter, "Perfect Fit" High Efficiency (21" Wide Gas Furnace)	TFM210A9FR0	[ ]
Media Air Filter, "Perfect Fit" High Efficiency (24-1/2" Wide Gas Furnace)	TFM245A9FR0	[ ]
Media Air Filter, "Perfect Fit" Standard Efficiency (14-1/2" Wide Gas Furnace)	TFP145A9FR0	[ ]
Media Air Filter, "Perfect Fit" Standard Efficiency (17-1/2" Wide Gas Furnace)	TFP175A9FR0	[ ]
Media Air Filter, "Perfect Fit" Standard Efficiency (21" Wide Gas Furnace)	TFP210A9FR0	[ ]
Media Air Filter, "Perfect Fit" Standard Efficiency (24-1/2" Wide Gas Furnace)	TFP245A9FR0	[ ]
Coil Enclosure (14-1/2" Wide Cabinets)	BAYCLE14A1422A	[ ]
Coil Enclosure (17-1/2" Wide Cabinets)	BAYCLE17A1722A	[ ]
Coil Enclosure (21" Wide Cabinets)	BAYCLE21A2130A	[ ]
Coil Enclosure (24-1/2" Wide Cabinets)	BAYCLE24A2430A	[ ]
Downflow Subbase	BAYBASE205	[ ]
Side Filter Rack	BAYFLTR200	[ ]
Filter Kit/Horizontal Conversion TUH2-060,080	BAYFLTR203	[ ]
Filter Kit/Horizontal Conversion TUH2-100	BAYFLTR204	[ ]
Filter Kit/Horizontal Conversion TUH2-120	BAYFLTR205	[ ]
High Altitude Pressure Switch Kit TUH2-060	BAYSWT10AHALTA①	[ ]
High Altitude Pressure Switch Kit TUH2-080,100,120	BAYSWT08AHALTA①	[ ]
Concentric Vent Kit TUH2 Furnaces	BAYAIR30AVENTA	[ ]
Sidewall Vent Termination Kit All 2 Pipe Direct Vent Furnaces	BAYVENT200B	[ ]
Manufactured/Mobile Home Kit All 2 Pipe Direct Vent Furnaces	BAYMFGH100A	[ ]
Cleanable Filter (14.5"/17.5" wide Upflow models)	BAYFLTR317	[ ]
Cleanable Filter (21" wide Upflow models)	BAYFLTR321	[ ]
Cleanable Filter (24.5" wide Upflow models)	BAYFLTR324	[ ]
CleanEffects™, Whole House Air Cleaner (Upflow 14-1/2" Wide Gas Furnace)	TFD145ALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Upflow 17-1/2" Wide Gas Furnace)	TFD175ALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Upflow 21" Wide Gas Furnace)	TFD210ALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Upflow 24-1/2" Wide Gas Furnace)	TFD245ALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Downflow 14-1/2" Wide Gas Furnace)	TFD14DALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Downflow 17-1/2" Wide Gas Furnace)	TFD17DALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Downflow 21" Wide Gas Furnace)	TFD21DALFR000B	[ ]
CleanEffects™, Whole House Air Cleaner (Downflow 24-1/2" Wide Gas Furnace)	TFD24DALFR000B	[ ]
CleanEffects™, Whole House Transformer Kit (120 to 24 Volt - all TFD Air Cleaners)	BAYTRANS12024	[ ]

① Optional kit allows 200 ft. max. vent length from 5,000-12,000 feet above sea level. See installer's guide.

TRANE

General Data

TUH2 PRODUCT SPECIFICATIONS①

Product Specifications ①

MODEL	TUH2B060A9V3VA	TUH2B080A9V3VA	TUH2B080A9V4VA	TUH2C100A9V4VA
TYPE	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal	Upflow / Horizontal
RATINGS ②				
1st Stage Input BTUH	39,000	52,000	52,000	65,000
1st Stage Capacity BTUH (ICS) ③	37,830	50,440	50,440	62,855
2nd Stage Input BTUH	60,000	80,000	80,000	100,000
2nd Stage Capacity BTUH (ICS) ③	58,200	77,600	77,600	96,700
AFUE	97	97	97	96.7
Temp. rise (Min.-Max.) °F.	35 - 65	35 - 65	35 - 65	35 - 65
BLOWER DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
Diameter - Width (In.)	10 x 8	10 x 8	11 x 8	10 x 10
No. Used	1	1	1	1
Speeds (No.)	Variable	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/2	1/2	3/4	3/4
R.P.M.	Variable	Variable	Variable	Variable
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60	115/1/60
COMBUSTION FAN - Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable	Direct - Variable
Motor HP - RPM	1/50 - 5000	1/50 - 5000	1/50 - 5000	1/50 - 5000
Volts / Ph / Hz	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180
FLA	1.0	1.0	1.0	1.0
FILTER — Furnished?	Yes	Yes	Yes	Yes
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 17x25 - 1 in.	1 - 17x25 - 1 in.	1 - 17x25 - 1 in.	1 - 20x25 - 1 in.
VENT — Size (in.)	2 Round	2 Round	2 Round	3 Round
HEAT EXCHANGER				
Type -Fired -Unfired	Aluminized Steel - Type I	Aluminized Steel - Type I	Aluminized Steel - Type I	Aluminized Steel - Type I
Gauge (Fired)	20	20	20	20
ORIFICES — Main				
Nat. Gas. Qty. — Drill Size	3 — 45	4 — 45	4 — 45	5 — 45
L.P. Gas Qty. — Drill Size	3 — 56	4 — 56	4 — 56	5 — 56
GAS VALVE	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
PILOT SAFETY DEVICE				
Type	Hot Surface Igniter	Hot Surface Igniter	Hot Surface Igniter	Hot Surface Igniter
BURNERS — Type	Multiport Inshot	Multiport Inshot	Multiport Inshot	Multiport Inshot
Number	3	4	4	5
POWER CONN. — V / Ph / Hz ④	115/1/60	115/1/60	115/1/60	115/1/60
Ampacity (In Amps)	11.1	11.1	13.5	13.5
Max. Overcurrent Protection (Amps)	15	15	20	20
PIPE CONN. SIZE (IN.)	1/2	1/2	1/2	1/2
DIMENSIONS	H x W x D	H x W x D	H x W x D	H x W x D
Crated (In.)	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 23 x 30-1/2
WEIGHT				
Shipping (Lbs.) / Net (Lbs)	158 / 146	168 / 156	170 / 158	187 / 186

① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3
② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applicaitons, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.
③ Based on U.S. government standard tests.
④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

Pub. No. 22-1814-07

General Data

TUH2/TDH2 PRODUCT SPECIFICATIONS①

PRODUCT SPECIFICATIONS ①

MODEL	TUH2C100A9V5VA	TUH2D120A9V5VA	TDH2B060A9V3VA	TDH2B080A9V3VA
TYPE	Upflow / Horizontal	Upflow / Horizontal	Downflow / Horizontal	Downflow / Horizontal
RATINGS ②				
1st Stage Input BTUH	65,000	78,000	39,000	52,000
1st Stage Capacity BTUH (ICS) ③	62,855	75,426	37,000	49,400
2nd Stage Input BTUH	100,000	120,000	60,000	80,000
2nd Stage Capacity BTUH (ICS) ③	96,700	116,040	57,000	76,000
AFUE	96.7	96.7	95	95
Temp. rise (Min.-Max.) °F.	35 - 65	40 - 70	35 - 65	35 - 65
BLOWER DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 x 10	10 x 10	10 x 8	10 x 8
No. Used	1	1	1	1
Speeds (No.)	Variable	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1	1	1/2	1/2
RP.M.	Variable	Variable	Variable	Variable
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60	115/1/60
COMBUSTION FAN - Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable	Direct - Variable
Motor HP - RPM	1/50 - 5000	1/50 - 5000	1/50 - 5000	1/50 - 5000
Volts / Ph / Hz	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180
FLA	1.0	1.0	1.0	1.0
FILTER — Furnished?	Yes	Yes	Yes	Yes
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 20x25 - 1 in.	1 - 24x25 - 1 in.	2 - 14x20 - 1 in.	2 - 14x20 - 1 in.
VENT — Size (in.)	3 Round	3 Round	2 Round	2 Round
HEAT EXCHANGER				
Type -Fired	Aluminized Steel - Type I	Aluminized Steel - Type I	Aluminized Steel - Type I	Aluminized Steel - Type I
-Unfired				
Gauge (Fired)	20	20	20	20
ORIFICES — Main				
Nat. Gas. Qty. — Drill Size	5 — 45	6 — 45	3 — 45	4 — 45
L.P. Gas Qty. — Drill Size	5 — 56	6 — 56	3 — 56	4 — 56
GAS VALVE	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
PILOT SAFETY DEVICE				
Type	Hot Surface Igniter	Hot Surface Igniter	Hot Surface Igniter	Hot Surface Igniter
BURNERS — Type	Multiport Inshot	Multiport Inshot	Multiport Inshot	Multiport Inshot
Number	5	6	3	4
POWER CONN. — V / Ph / Hz ④	115/1/60	115/1/60	115/1/60	115/1/60
Ampacity (In Amps)	16.3	15.2	11.1	11.1
Max. Overcurrent Protection (Amps)	20	20	15	15
PIPE CONN. SIZE (IN.)	1/2	1/2	1/2	1/2
DIMENSIONS	H x W x D	H x W x D	H x W x D	H x W x D
Crated (In.)	41-3/4 x 23 x 30-1/2	41-3/4 x 26-1/2 x 30-1/2	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 19-1/2 x 30-1/2
WEIGHT				
Shipping (Lbs.) / Net (Lbs)	199 / 187	206 / 193	160/ 146	168 / 158

① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3

② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level. For Canadian applicaitons, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.

③ Based on U.S. government standard tests.

④ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.

TRANE

General Data

TDH2 PRODUCT SPECIFICATIONS①

PRODUCT SPECIFICATIONS ①

MODEL	TDH2B080A9V4VA	TDH2C100A9V4VA	TDH2D120A9V5VA
TYPE	Downflow / Horizontal	Downflow / Horizontal	Downflow / Horizontal
RATINGS ②			
1st Stage Input BTUH	52,000	65,000	78,000
1st Stage Capacity BTUH (ICS) ③	49,400	61,750	74,000
2nd Stage Input BTUH	80,000	100,000	120,000
2nd Stage Capacity BTUH (ICS) ③	76,000	95,000	114,000
AFUE	95	95	95
Temp. rise (Min.-Max.) °F.	35 - 65	35 - 65	40 - 70
BLOWER DRIVE	DIRECT	DIRECT	DIRECT
Diameter - Width (In.)	11 x 8	10 x 10	10 x 10
No. Used	1	1	1
Speeds (No.)	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	3/4	3/4	1
R.P.M.	Variable	Variable	Variable
Volts / Ph / Hz	115/1/60	115/1/60	115/1/60
COMBUSTION FAN - Type	Centrifugal	Centrifugal	Centrifugal
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable
Motor HP - RPM	1/50 - 5000	1/50 - 5000	1/50 - 5000
Volts / Ph / Hz	33 - 110/3/60 - 180	33 - 110/3/60 - 180	33 - 110/3/60 - 180
FLA	1.0	1.0	1.0
FILTER — Furnished?	Yes	Yes	Yes
Type Recommended	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	2 - 14x20 - 1 in.	2 - 16x20 - 1 in.	2 - 16x20 - 1 in.
VENT — Size (in.)	2 Round	3 Round	3 Round
HEAT EXCHANGER			
Type -Fired	Aluminized Steel - Type I	Aluminized Steel - Type I	Aluminized Steel - Type I
-Unfired			
Gauge (Fired)	20	20	20
ORIFICES — Main			
Nat. Gas. Qty. — Drill Size	4 — 45	5 — 45	6 — 45
L.P. Gas Qty. — Drill Size	4 — 56	5 — 56	6 — 56
GAS VALVE	Redundant - Two Stage	Redundant - Two Stage	Redundant - Two Stage
PILOT SAFETY DEVICE			
Type	Hot Surface Igniter	Hot Surface Igniter	Hot Surface Igniter
BURNERS — Type	Multiport Inshot	Multiport Inshot	Multiport Inshot
Number	4	5	6
POWER CONN. — V / Ph / Hz ④	115/1/60	115/1/60	115/1/60
Ampacity (In Amps)	13.5	13.5	15.2
Max. Overcurrent Protection (Amps)	20	20	20
PIPE CONN. SIZE (IN.)	1/2	1/2	1/2
DIMENSIONS	H x W x D	H x W x D	H x W x D
Crated (In.)	41-3/4 x 19-1/2 x 30-1/2	41-3/4 x 23 x 30-1/2	41-3/4 x 26-1/2 x 30-1/2
WEIGHT			
Shipping (Lbs.) / Net (Lbs)	172 / 160	185 / 175	205 / 195

Pub. No. 22-1814-07

TRANE

Upflow Performance Data

*UH2B060A9V3V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
					1st Stage Capacity = 37,600 2nd Stage Capacity = 56,200					
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE					
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9	
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	600 57 85	600 57 110	600 57 155	600 57 190	-	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	700 49 90	700 49 130	700 49 175	700 49 210	-	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	775 44 105	775 44 155	775 44 195	775 44 240	-	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	870 39 135	870 39 185	870 39 235	870 39 290	-	
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	860 61 140	920 57 200	920 57 245	920 57 300	670 79 245	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1000 53 190	1000 53 255	1000 53 305	1000 53 340	700 75 255	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1125 47 250	1125 47 315	1125 47 370	1025 51 355	775 68 285	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1250 42 340	1250 42 405	1250 42 445	1100 48 390	1000 53 355	
NOTES: * First letter may be "A" or "T" ** Factory setting										

*UH2B060A9V3V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
1.5	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	575 85	575 90	575 125	550 155	-
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	640 70	640 110	640 140	630 175	-
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	700 85	700 125	700 160	700 200	-
2.0	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	700 100	700 130	700 170	700 210	-
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	800 115	800 155	800 200	800 250	-
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	900 140	900 195	900 240	900 290	-
2.5	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	875 130	875 180	875 230	875 270	-
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1000 175	1000 235	1000 285	1000 335	900 310
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1125 235	1125 295	1125 345	1100 370	925 318
3	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1050 195	1050 260	1050 305	1050 350	920 315
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1200 275	1200 330	1200 385	1100 385	940 330
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1325 360	1325 425	1300 460	1175 425	1000 365
NOTES: * First letter may be "A" or "T" 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

TRANE

Upflow Performance Data

*UH2B080A9V3V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER									
					1st Stage Capacity = 50,440 2nd Stage Capacity = 77,800				
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE				
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	800 56 105	800 56 140	800 56 180	800 56 220	800 56 265
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	860 52 115	880 51 155	890 50 215	920 48 265	910 49 320
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	960 46 150	990 45 200	1000 44 230	1020 44 310	1010 44 350
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1080 41 195	1110 40 255	1120 40 315	1120 40 365	1080 41 390
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1100 62 205	1100 62 250	1120 61 320	1120 61 370	1090 63 400
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1210 57 265	1240 55 340	1260 54 410	1260 54 470	1130 61 430
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1360 50 365	1390 49 445	1400 49 500	1360 50 535	1210 57 475
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1360 50 355	1390 49 450	1400 49 520	1350 51 535	1180 58 465

NOTES:
* First letter may be "A" or "T"
** Factory setting

*UH2B080A9V3V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.0	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	750 84	750 122	750 154	720 185	710 221
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	840 109	840 146	840 181	840 226	820 264
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	940 136	940 177	940 215	940 274	940 318
2.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	850 113	850 150	870 200	890 250	890 295
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	960 150	990 200	1000 230	1020 305	1010 350
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1080 195	1110 255	1120 315	1120 365	1080 390
3.0	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1020 175	1020 225	1040 280	1050 330	1050 375
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1170 240	1180 300	1200 365	1200 415	1130 420
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1290 310	1320 410	1350 470	1340 520	1150 440
3.5	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1170 250	1190 315	1210 370	1210 435	1100 405
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1360 365	1390 445	1400 500	1360 535	1210 475
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1360 355	1390 450	1400 520	1350 535	1180 460

NOTES: * First letter may be "A" or "T"
1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value.
2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting;
NORMAL airflow (400 cfm/ton) is typical setting;
HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.

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Upflow
Performance Data

*UH2B080A9V4V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
					1st Stage Capacity = 50,440 2nd Stage Capacity = 77,600					
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE					
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9	
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	800 58 105	800 58 140	800 58 180	800 58 220	800 58 265	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	880 52 115	880 51 165	890 50 215	920 48 265	910 49 320	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	980 46 150	990 45 200	1000 44 230	1020 44 310	1010 44 350	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1080 41 195	1110 40 255	1120 40 315	1120 40 365	1080 41 390	
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1100 62 205	1100 62 260	1120 61 320	1120 61 370	1090 63 400	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1210 57 265	1240 55 340	1260 54 410	1260 54 470	1130 61 430	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1360 50 355	1390 49 445	1400 49 500	1360 50 535	1210 57 475	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1360 50 355	1390 49 450	1400 49 520	1350 51 535	1180 58 485	
NOTES: * First letter may be "A" or "T" ** Factory setting										

*UH2B080A9V4V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.5	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	857 107	849 143	841 179	833 223	825 266
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	970 158	971 205	973 251	968 298	980 346
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	1092 209	1093 268	1104 323	1099 374	1095 424
3.0	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	1004 153	1019 210	1035 267	1036 321	1041 374
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1163 249	1173 311	1184 372	1179 426	1174 480
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1323 345	1328 411	1332 477	1320 532	1307 586
3.5	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1176 254	1188 317	1200 380	1195 437	1190 494
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1356 379	1362 446	1368 514	1353 568	1339 623
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1536 503	1536 575	1536 647	1512 699	1488 751
4.0	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1376 374	1387 429	1359 483	1354 547	1348 611
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1562 530	1562 604	1563 677	1531 720	1499 765
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1768 757	1759 830	1749 902	1654 868	1559 829
NOTES: * First letter may be "A" or "T" 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

TRANE

Upflow
Performance Data

*UH2C100A9V4V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER									
1st Stage Capacity = 62,855 2nd Stage Capacity = 96,700									
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE				
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	873 64 100	893 63 145	900 62 195	899 62 240	902 62 290
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	971 58 115	997 56 170	1006 56 220	1022 55 280	1029 54 335
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1136 49 160	1146 49 230	1165 48 295	1180 47 365	1184 47 425
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1258 44 225	1298 43 300	1319 42 390	1328 42 450	1286 44 490
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1260 68 213	1304 66 305	1329 65 380	1334 65 460	1317 65 510
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1464 59 315	1471 59 405	1478 58 485	1478 58 560	1350 64 540
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1631 53 450	1678 51 570	1690 51 670	1579 55 645	1419 61 565
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1846 47 640	1867 46 780	1794 48 770	1644 52 700	1498 57 650
NOTES: * First letter may be "A" or "T" ** Factory setting									

*UH2C100A9V4V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.5	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	808 75	824 125	840 170	835 210	830 250
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	938 100	963 160	959 205	964 255	975 310
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	1059 150	1100 200	1121 265	1136 330	1142 395
3.0	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	1004 120	1010 175	1027 230	1044 285	1050 345
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1141 170	1190 245	1214 310	1229 380	1234 450
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1336 250	1375 330	1387 410	1385 480	1384 545
3.5	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1153 180	1206 250	1230 320	1239 395	1244 460
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1390 285	1418 465	1439 445	1441 515	1373 540
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1575 400	1606 495	1632 580	1596 645	1445 590
4.0	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1388 290	1423 360	1444 440	1444 515	1390 540
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1610 415	1641 515	1666 635	1607 650	1449 595
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1847 630	1863 735	1816 760	1587 720	1532 665
NOTES: *First letter may be "A" or "T" 1. At Continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

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Upflow
Performance Data

*UH2C100A9V5V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
					1st Stage Capacity = 62,855 2nd Stage Capacity = 96,700					
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE					
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9	
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	873 64 100	893 63 145	900 62 195	899 62 240	902 62 290	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	971 58 115	987 56 170	1006 56 220	1022 55 280	1029 54 335	
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1135 49 160	1146 49 230	1165 48 295	1180 47 365	1184 47 425	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1258 44 225	1298 43 300	1319 42 390	1328 42 450	1286 44 490	
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1260 68 213	1304 66 305	1329 65 380	1334 65 460	1317 65 510	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1464 59 315	1471 59 405	1478 58 485	1478 58 560	1350 64 540	
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1631 53 450	1678 51 570	1690 51 670	1579 55 645	1419 61 585	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1846 47 640	1867 46 760	1794 48 770	1644 52 700	1498 57 650	
NOTES: * First letter may be "A" or "T" ** Factory setting										

*UH2C100A9V5V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
3.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	1163 222	1201 304	1209 375	1200 433	1199 496
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1339 331	1365 400	1366 477	1377 555	1382 636
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1515 440	1538 535	1549 620	1553 708	1547 796
4.0	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1339 331	1365 400	1366 477	1377 555	1382 636
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1550 471	1562 550	1574 645	1575 733	1584 813
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1744 626	1758 736	1770 838	1772 935	1760 1018
5.0	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1695 578	1709 728	1721 820	1772 930	1711 1007
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1919 862	1919 956	1905 1043	1831 1043	1709 982
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	NA NA	NA NA	NA NA	NA NA	NA NA
NOTES: *First letter may be "A" or "T" 1. At Continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting. 3. NA = Not allowed.											

TRANE

Upflow Performance Data

*UH2D120A9V5V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
1st Stage Capacity = 75,426 2nd Stage Capacity = 116,040										
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE					
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9	
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1090 62 165	1120 60 225	1080 63 270	1070 63 310	1010 67 380	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1210 56 220	1200 56 280	1200 56 330	1180 57 395	1160 58 455	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1340 50 295	1360 50 350	1370 49 425	1360 49 495	1330 51 535	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1430 47 390	1570 43 490	1580 43 585	1570 43 625	1390 49 565	
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1660 63 485	1690 62 590	1690 62 640	1640 64 675	1480 72 800	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1870 56 675	1870 56 745	1810 58 770	1680 62 715	1490 70 625	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	2060 51 880	1990 53 890	1850 57 810	1710 61 790	1530 68 695	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	2200 48 1030	2090 50 985	1940 54 895	1790 58 830	1640 64 750	
NOTES: * First letter may be "A" or "T" ** Factory setting										

*UH2D120A9V5V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
3.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	1210 220	1210 270	1220 325	1230 400	1230 445
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1400 305	1440 390	1450 465	1450 510	1410 560
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1590 425	1600 520	1610 600	1600 645	1380 575
4.0	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1390 305	1400 375	1430 445	1440 515	1420 585
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1620 420	1650 530	1670 595	1640 660	1480 800
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1840 600	1830 690	1820 765	1670 700	1490 620
5	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1800 570	1780 630	1780 705	1700 695	1530 615
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	2050 845	2010 875	1860 905	1710 735	1530 655
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	2160 995	2040 935	1920 875	1790 805	1620 730
NOTES: * First letter may be "A" or "T" 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

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Downflow
Performance Data

***DH2B060A9V3V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER**

1st STAGE CAPACITY = 37,000
2nd STAGE CAPACITY = 57,000

	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE				
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	600 56 55	600 56 85	600 56 120	600 56 150	600 56 185
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	675 50 65	675 50 105	675 50 140	675 50 175	675 50 205
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	750 45 85	750 45 125	750 45 160	750 45 210	750 45 260
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	850 40 115	850 40 165	850 40 205	850 40 260	850 40 320
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	900 58 125	900 58 165	900 58 220	900 58 270	900 58 315
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1000 52 170	1050 50 230	1050 50 295	1050 50 335	1050 50 370
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1100 47 215	1150 45 285	1150 45 340	1150 45 395	1100 47 440
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1300 40 330	1325 39 385	1325 39 455	1250 42 465	1200 43 470

NOTES:
* First letter may be "A" or "T"
** Factory setting

***DH2B060A9V3V FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER**

OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
1.5	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	525 45	525 70	525 100	525 135	525 160
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	600 55	600 95	600 120	600 150	600 185
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	675 65	675 105	625 140	675 175	675 205
2.0	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	700 70	700 115	700 145	700 185	700 220
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	800 100	800 135	800 175	800 225	800 260
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	900 125	900 165	900 220	900 270	900 330
2.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	875 115	875 160	875 210	875 260	875 310
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1000 150	1000 207	1000 265	1000 320	1000 390
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1125 215	1125 285	1125 340	1125 395	1125 440
3	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1050 175	1050 240	1050 305	1050 345	1050 380
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1200 240	1200 315	1200 385	1200 440	1100 410
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1350 330	1350 410	1350 500	1275 485	1170 450

NOTES: * First letter may be "A" or "T"
1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value.
2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting;
   NORMAL airflow (400 cfm/ton) is typical setting;
   HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.

TRANE

Downflow Performance Data

*DH2B060A9V3V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER									
1st STAGE CAPACITY = 49,400 2nd STAGE CAPACITY = 76,000									
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE				
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	800 56 130	900 56 170	800 56 210	790 56 245	-
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	900 49 162	900 49 210	900 49 260	900 49 295	-
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1000 44 205	1000 44 265	1000 44 310	1000 44 345	800 56 295
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1170 38 305	1170 38 350	1170 38 400	1020 44 360	830 54 310
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1150 60 295	1150 60 345	1150 60 385	1020 67*** 360	830 83*** 305
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1275 54 380	1275 54 445	1200 57 425	1040 66*** 360	900 76*** 350
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1430 48 515	1340 51 490	1220 56 455	1090 63 410	930 74*** 380
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1430 48 515	1340 51 490	1220 56 455	1090 63 410	930 74*** 380

NOTES: * - First letter may be "A" or "T"
** Factory setting
*** Above MAX Temperature change value

*DH2B080A9V3V - FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.0	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	700 95	700 105	700 115	680 200	670 235
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	800 130	800 160	800 205	790 245	740 265
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	900 160	900 215	900 255	900 300	750 270
2.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	875 145	875 185	875 240	875 280	760 270
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1000 205	1000 265	1000 310	1000 340	800 295
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1150 295	1150 340	1150 385	1020 350	800 300
3.0	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1050 235	1050 295	1050 340	1010 350	800 290
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1200 335	1200 385	1200 410	1040 365	840 310
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1350 455	1350 480	1210 435	1070 390	900 345

NOTES: * First letter may be "A" or "T"
1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value.
2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting;
NORMAL airflow (400 cfm/ton) is typical setting;
HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.

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Downflow Performance Data

*DH2B080A9V4V FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
1st STAGE CAPACITY = 49,400 2nd STAGE CAPACITY = 76,000										
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE					
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9	
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	800 56 130	800 58 170	800 58 210	790 56 245	-	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	900 49 162	900 49 210	900 49 260	900 49 295	-	
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1000 44 205	1000 44 265	1000 44 310	1000 44 345	900 56 295	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1170 38 305	1170 38 350	1170 38 400	1020 44 360	830 54 310	
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1150 60 285	1150 60 345	1150 60 395	1020 67*** 360	830 83*** 305	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1275 54 380	1275 54 445	1200 57 425	1040 66*** 380	900 76*** 350	
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1430 48 515	1340 51 490	1220 56 455	1090 63 410	930 74*** 380	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1430 48 515	1340 51 490	1220 56 455	1090 63 410	930 74*** 380	
NOTES: * - First letter may be "A" or "T" ** Factory setting *** Above MAX Temperature change value										

*DH2B080A9V4V - FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.5	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	849 141	888 191	881 241	878 294	876 348
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	963 195	985 250	977 305	973 358	970 411
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	1057 249	1065 309	1073 369	1069 422	1064 474
3.0	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	999 198	1003 241	1008 294	1018 354	1029 414
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1144 300	1150 362	1156 423	1160 486	1165 548
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1288 412	1297 482	1305 552	1303 617	1300 682
3.5	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1156 307	1185 374	1174 440	1177 502	1179 563
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1327 446	1335 518	1343 589	1325 641	1307 693
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1506 634	1502 703	1498 771	1418 746	1338 721
4.0	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1327 446	1335 518	1343 589	1325 641	1307 693
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1525 656	1522 727	1518 797	1430 761	1341 725
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1708 906	1636 881	1563 857	1471 813	1379 769
NOTES: * First letter may be "A" or "T" 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

TRANE

Downflow Performance Data

*DH2C100A9V4V - FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
1st STAGE CAPACITY = 61,750 2nd STAGE CAPACITY = 95,000										
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE				
		SW 7	SW 8		0.1	0.3	0.5	0.7	0.9
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	923 61 110	955 59 165	980 58 210	958 58 265	947 59 310
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1020 55 145	1047 53 190	1053 53 250	1042 54 295	1029 54 350
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1156 48 185	1166 48 240	1172 48 300	1177 48 350	1178 48 420
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1275 44 225	1305 43 290	1328 42 365	1328 42 445	1328 42 510
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1298 66 235	1320 65 305	1335 65 380	1343 64 445	1343 64 520
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1438 60 310	1459 59 390	1482 58 470	1483 58 550	1470 59 610
	MEDIUM **	ON	OFF	CFM TEMP. RISE WATTS	1639 53 450	1650 52 525	1650 52 600	1644 52 680	1496 58 640
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1790 18 570	1818 47 670	1813 47 770	1708 50 750	1535 56 675
NOTES: * - First letter may be "A" or "T" ** Factory setting *** Above MAX temperature change										

*DH2C100A9V4V - FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
2.5	LOW (350 CFM/TON)	ON	ON	OFF	ON	CFM WATTS	870 100	885 140	887 185	881 230	876 270
	NORMAL (400 CFM/TON)	ON	ON	OFF	OFF	CFM WATTS	969 120	1018 180	1016 230	1012 285	999 325
	HIGH (450 CFM/TON)	ON	ON	ON	OFF	CFM WATTS	1124 175	1139 225	1130 275	1135 335	1135 390
3.0	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	1053 145	1075 200	1070 245	1070 295	1049 350
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1186 195	1205 255	1220 310	1220 370	1216 440
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1336 255	1366 340	1383 405	1385 470	1381 545
3.5	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1216 190	1225 255	1235 320	1240 385	1243 445
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1394 270	1422 360	1436 430	1437 505	1430 580
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1579 395	1604 475	1610 555	1599 645	1517 640
4.0	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1377 270	1412 355	1426 430	1433 510	1428 575
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	1599 425	1624 510	1636 585	1618 670	1512 635
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	1801 560	1818 690	1815 775	1694 735	1525 650
NOTES: * - First letter may be "A" or "T" 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

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Downflow
Performance Data

*DH2D120A9V5V - FURNACE HEATING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER										
					1st STAGE CAPACITY = 74,000 2nd STAGE CAPACITY = 114,000					
	AIRFLOW SETTING	DIP SWITCH SETTING			EXTERNAL STATIC PRESSURE					
		SW 8	SW 7		0.1	0.3	0.5	0.7	0.9	
HEATING 1ST STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1025 65 150	1025 65 200	1000 67 240	1000 67 290	1000 67 340	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1200 56 230	1200 56 270	1200 56 330	1200 56 390	1200 56 450	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	1350 49 280	1350 49 340	1350 49 400	1350 49 470	1350 49 530	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	1550 43 400	1550 43 490	1550 43 560	1550 43 620	1450 46 600	
HEATING 2ND STAGE	LOW	ON	ON	CFM TEMP. RISE WATTS	1550 66 380	1550 66 470	1550 66 540	1550 66 610	1450 71*** 690	
	MEDIUM LOW	OFF	ON	CFM TEMP. RISE WATTS	1850 56 560	1850 56 750	1850 56 780	1700 60 720	1500 69 640	
	NORMAL **	ON	OFF	CFM TEMP. RISE WATTS	2050 50 850	2000 51 880	1850 56 810	1700 60 750	1550 66 670	
	HIGH	OFF	OFF	CFM TEMP. RISE WATTS	2105 49 1000	2050 50 940	1900 54 880	1775 58 820	1625 63 750	
NOTES: * First letter may be "A" or "T" ** Factory setting										

*DH2D120A9V5V - FURNACE COOLING AIRFLOW (CFM) AND POWER (WATTS) VS. EXTERNAL STATIC PRESSURE WITH FILTER											
OUTDOOR UNIT SIZE (TONS)	AIRFLOW SETTING	DIP SWITCH SETTING					EXTERNAL STATIC PRESSURE				
		SW 1	SW 2	SW 3	SW 4		0.1	0.3	0.5	0.7	0.9
3.5	LOW (350 CFM/TON)	OFF	ON	OFF	ON	CFM WATTS	1225 240	1225 280	1225 340	1225 400	1225 450
	NORMAL (400 CFM/TON)	OFF	ON	OFF	OFF	CFM WATTS	1400 310	1400 390	1400 470	1400 520	1400 570
	HIGH (450 CFM/TON)	OFF	ON	ON	OFF	CFM WATTS	1600 450	1600 520	1600 590	1600 640	1450 600
4.0	LOW (350 CFM/TON)	ON	OFF	OFF	ON	CFM WATTS	1400 300	1400 380	1400 450	1400 520	1400 570
	NORMAL (400 CFM/TON)	ON	OFF	OFF	OFF	CFM WATTS	1600 460	1600 530	1600 610	1600 670	1450 600
	HIGH (450 CFM/TON)	ON	OFF	ON	OFF	CFM WATTS	1800 610	1800 700	1800 780	1650 690	1500 630
5	LOW (350 CFM/TON)	OFF	OFF	OFF	ON	CFM WATTS	1750 580	1750 640	1750 720	1650 680	1450 610
	NORMAL (400 CFM/TON)	OFF	OFF	OFF	OFF	CFM WATTS	2000 830	2000 860	1850 800	1700 740	1550 660
	HIGH (450 CFM/TON)	OFF	OFF	ON	OFF	CFM WATTS	2100 970	2000 910	1900 850	1650 780	1600 710
NOTES: * - First letter may be "A" or "T" 1. At continuous fan setting: Heating or Cooling airflows are approximately 50% of selected cooling value. 2. LOW airflow (350 cfm/ton) is COMFORT & HUMID CLIMATE setting; NORMAL airflow (400 cfm/ton) is typical setting; HIGH airflow (450 cfm/ton) is DRY CLIMATE setting.											

TRANE

Maximum Vent Length Table

VENT LENGTH TABLE WITH BAYHALT KIT (HIGH ALTITUDE KIT)			
ALTITUDE	MAXIMUM TOTAL EQUIVALENT LENGTH IN FEET FOR VENT AND INLET AIR (SEE NOTES)		
5,000 - 12,000 Feet	2 INCH PIPE	2.5 INCH PIPE	3 INCH PIPE
Natural Gas - All models **Liquid Propane Gas - All models**			
*UY060R, *UH2B060A9V3V *UX060R, *UX2B060A9362 *UX2B060AFV3V *DY060R, *DH2B060A9V3V *DX060R, *DX2B060A9362 *UY080R, *UH2B080A9V3V *UH2B080A9V4V	200	200	200
*UX080R, *UX2B080A9422 *UX2B080AFV3V *DY080R, *DH2B080A9V3V *DX080R, *DX2B080A9422 *DH2B080A9V4V	50	120	200
*UY100R, *UH2C100A9V4V *UX100R, *UX2C100A9482 *UX2C100AFV4V *DY100R, *DH2C100A9V4V *DX100R, *DX2C100A9482 *UH2C100A9V5V	Not Allowed	60	200
*UY120R, *UH2D120A9V5V *UX120R, *UX2D120A9602 *UX2D120AFV5V *DY120R, *DH2D120A9V5V *DX120R, *DX2D120A9602	Not Allowed	Not Allowed	200

NOTES: *First letter may be "A", "C" or "T"

1. Minimum vent length for all models: 3' horizontal and vertical.
2. DO NOT MIX PIPE DIAMETERS IN THE SAME LENGTH OF PIPE OUTSIDE THE FURNACE CABINET, (Except adapters at the top of the furnace).
3. MAXIMUM PIPE LENGTHS MUST NOT BE EXCEEDED! THE LENGTH SHOWN IS NOT A COMBINED TOTAL, IT IS THE MAXIMUM LENGTH OF EACH (Vent or inlet air pipes).
4. One SHORT radius 90° elbow is equivalent to 10' of 3" pipe and one LONG radius elbow is equivalent to 6' of 3" pipe. One 90° elbow is equivalent to 7-1/2' of 2-1/2" pipe or 5' of 2" pipe. Two 45° elbows equal one 90° elbow.
5. The termination tee or bend must be included in the total number of elbows. If the BAYAIR30AVENT termination kit is used, the equivalent length is 0 feet.
6. Pipe adapters are field supplied (except 100,120,UX1C06A960 & all downflow models).

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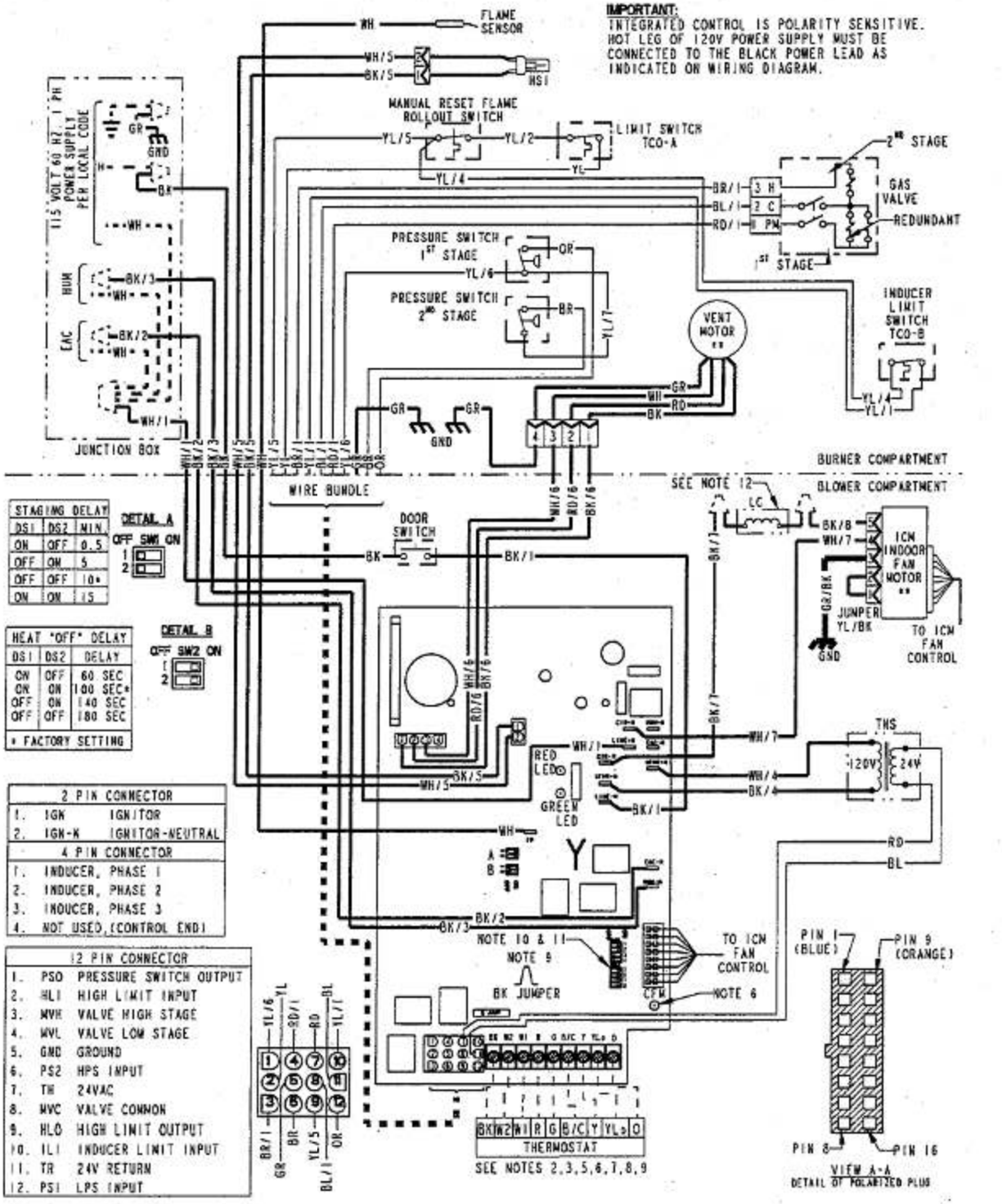
Electrical Data

*UH2 WIRING DIAGRAM



From drawing D344303

Electrical Data

*UH2 SCHEMATIC DIAGRAM

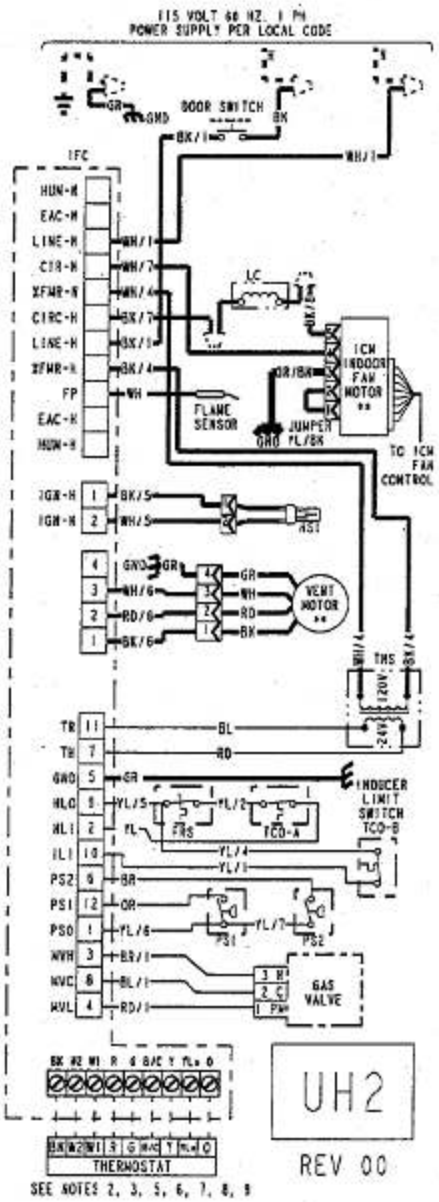


TABLE "A"	
MODELS	
*UH2B060A9V3V**	*UH2C100A9V4V**
*UH2B080A9V3V**	*UH2C100A9V5V**
*UH2C080A9V4V**	*UH2D120A9V5V**

* PREFIX MAY BE "B" OR "C"
* SUFFIX MAY BE "A" THROUGH "Z"

WARNING

HAZARDOUS VOLTAGE:
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

CAUTION

USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

INTEGRATED FURNACE CONTROL

REPLACE WITH PART CNT06011 OR EQUIVALENT
ELECTRICAL RATING
INPUT: 25 VAC, 60 HZ.
XFMR SEC. CURRENT: 450 MA. + HV LOAD
HV OUTPUT: 1.5 A @ 24 VAC
IND OUTPUT: 3 PHASE OUTPUT
IGN OUTPUT: 2.0 A @120 VAC
CIRC. BLOWER OUTPUT: 14.5 FLA,
25 LRA @ 120 VAC
HUMIDIFER & AIR CLEANER
MAX. LOAD: 1.0 A @ 120 VAC
TIMINGS
PREPURGE: 0 SEC.; INTERPURGE: 40 SEC.
POST PURGE: 5 SEC.
IGN WARMUP: 20 SEC.
TAP: 2; TFI: 5 SEC.
RETRIES: 2 RECYCLES: 10
HEAT ON DELAY: 45 SEC.
COOL ON DELAY: 0 SEC.
AUTO RESTART: 60 MIN.
AUTO RESTART PURGE: 60 SEC.

DIAGNOSTIC CODES

RED LED - LifePlan™ DATA - 1 FLASH EVERY 20 SEC.
2 FLASHES: RETRIES OR RECYCLES EXCEEDED
3 FLASHES: INDUCER OR PRESSURE SWITCH ERROR
4 FLASHES: OPEN LIMIT OR ROLLOUT SWITCH
5 FLASHES: FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT
6 FLASHES: LINE REVERSE
7 FLASHES: GAS VALVE CIRCUIT ERROR
8 FLASHES: WEAK FLAME
9 FLASHES: OPEN INDUCER LIMIT ERROR

GREEN LED - STATUS
SLOW FLASH: NORMAL, NO CALL FOR HEAT
FAST FLASH: NORMAL, CALL FOR HEAT PRESENT

GREEN AND RED LEDs ON CONTINUOUS:
FUSE OPEN OR INTERNAL CONTROL FAILURE

TCO THERMAL CUT OUT
PS PRESSURE SWITCH
FRS FLAME ROLLOUT SWITCH
FP FLAME SENSOR
CHASSIS GROUND
HSI HOT SURFACE IGNITER
DOOR SWITCH
FUSE
LINE — 24 V } FACTORY WIRING
LINE - - - 24 V } FIELD WIRING
CF CAPACITOR
COIL
** INTERNAL THERMAL PROTECTION

BK	BLACK	GR	GREEN
WH	WHITE	BR	BROWN
YL	YELLOW	RD	RED
OR	ORANGE	BL	BLUE

BK/1 — WIRE COLOR / NUMBER ID (IF ANY)

L	LINE	TH	24 VAC (HOT)
N	NEUTRAL	TR	24 VAC (COMMON)
GND	GROUND	MV	MAIN GAS VALVE
B/C	COMMON	TRS	TRANSFORMER
HLO	HIGH LIMIT OUTPUT	ILI	INDUCER LIMIT INPUT
HLI	HIGH LIMIT INPUT		

NOTES:
1. IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THIS FURNACE MUST BE REPLACED, IT MUST BE WITH WIRE HAVING A TEMPERATURE RATING OF AT LEAST 105°C.
2. THERMOSTAT HEAT ANTICIPATOR SETTING: FIRST STAGE .38 AMPS, SECOND STAGE .13 AMPS. IF SETTING IS NOT FIXED ON THERMOSTAT, FOR SINGLE STAGE HEATING THERMOSTAT SET AT .51 AMPS.
3. FOR PROPER OPERATION OF COOLING SPEED, "Y" TERMINAL MUST BE CONNECTED TO THE ROOM THERMOSTAT.
4. THESE LEADS PROVIDE 120V POWER CONNECTIONS FOR ELECTRONIC AIR CLEANER (EAC) AND HUMIDIFIER (HUM). MAX. LOAD: 1.0 AMPS EACH.
5. JUMPER W1 AND W2 FOR SINGLE STAGE HEATING THERMOSTAT, SECOND STAGE WILL BE ENERGIZED, DELAYED PER STAGING DELAY SETTING.
6. GREEN LIGHT (CFM) FLASHES ONCE PER 100 CFM COMMAND.
7. FOR HEAT PUMP SYSTEMS Y AND O MUST BE CONNECTED TO THE LOW-VOLTAGE TERMINAL BOARD.
8. FOR TWO COMPRESSOR SYSTEMS, USE "YLO" FOR LOW SPEED AND "Y" FOR HIGH SPEED CONNECTION TO THE LOW-VOLTAGE TERMINAL BOARD.
9. OPTIONAL HUMIDOSTAT IS TO BE CONNECTED BETWEEN THE "R" AND "BK". FACTORY INSTALLED JUMPER "R" TO "BK" (BK JUMPER) ON THE CIRCUIT BOARD MUST BE CUT IF OPTIONAL HUMIDOSTAT IS USED. THE JUMPER MUST ALSO BE CUT WHEN APPLYING AN AIRFLOW COMMAND SIGNAL TO THE "BK" INPUT SUCH AS WITH THE VARIABLE SPEED SINGLE-ZONE AND MULTI-ZONE SYSTEM CONTROLLERS. ON SINGLE SPEED COOLING ONLY / NON-HEAT PUMP SYSTEMS, JUMPER "Y" TO "O" FOR PROPER OPERATION OF THE DELAY PROFILES AND THE HUMIDOSTAT. FOR TWO COMPRESSOR OR TWO SPEED SYSTEMS, JUMPER "YLO" TO "O".
10. SEE INDOOR MOTOR AIRFLOW SELECTION CHART, LOCATED IN THE FURNACE FOR DIP SWITCH SETTINGS TO SET AIRFLOW AND COOLING OFF DELAYS.
11. POWER MUST BE OFF WHEN DIP SWITCHES ARE SET.
12. USED FOR *UH2B060A9V4V**, *UH2C100A9V4V**, *UH2C100A9V5V** & *UH2D120A9V5V**.
13. ON POWER-UP, LAST FOUR FAULTS, IF ANY, WILL BE FLASHED ON RED LED. GREEN LED WILL BE SOLID ON DURING LAST FAULT RECOVERY.

From drawing D344303

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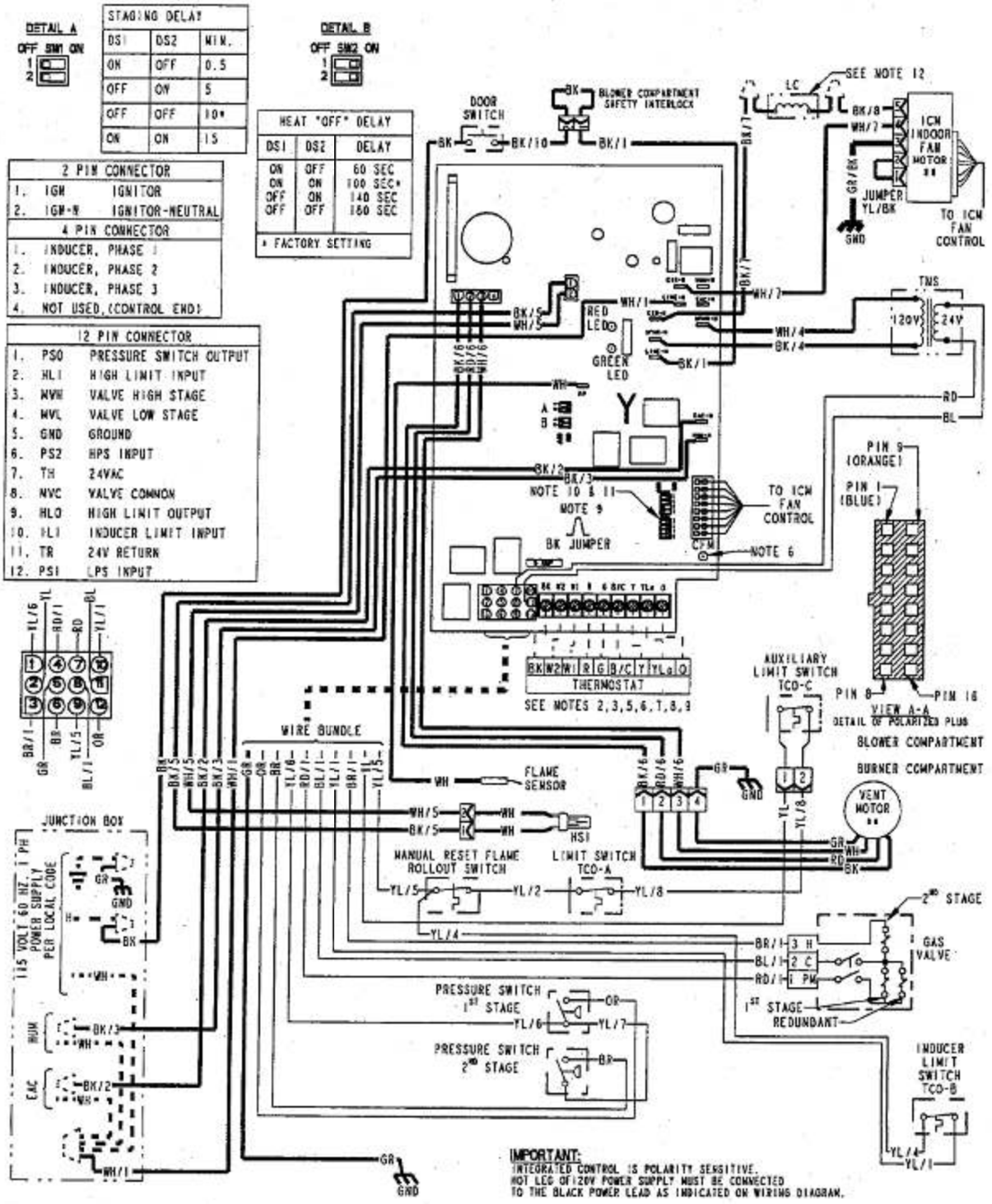
Electrical Data

*DH2 WIRING DIAGRAM



From drawing D344304

Electrical Data

*DH2 SCHEMATIC DIAGRAM

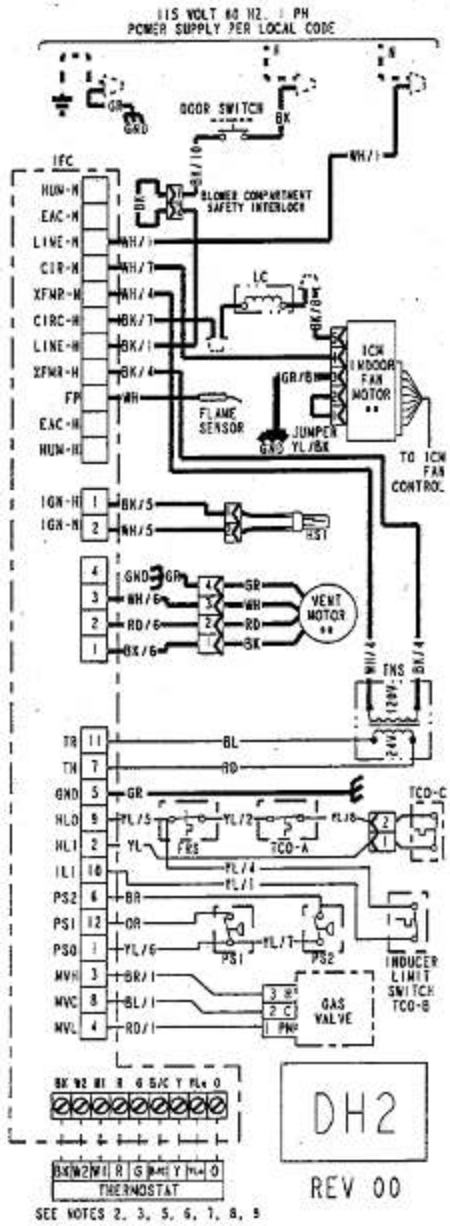


TABLE "A"	
MODELS	
+DH2B060A9V3V**	+DH2C100A9V4V**
+DH2B080A9V3V**	+DH2D120A9V5V**
+DH2B080A9V4V**	
* PREFIX MAY BE "A" OR "T" * SUFFIX MAY BE "A" THROUGH "Z"	

⚠ WARNING

HAZARDOUS VOLTAGE:
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

⚠ CAUTION

USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

INTEGRATED FURNACE CONTROL

REPLACE WITH PART CNT06017 OR EQUIVALENT
ELECTRICAL RATING
INPUT: 25 VAC, 60 HZ.
XFMR SEC. CURRENT: 450 MA. + HV LOAD
HV OUTPUT: 1.5 A @ 24 VAC
IND OUTPUT: 3 PHASE OUTPUT
IGN OUTPUT: 2.0 A @120 VAC
CIRC. BLOWER OUTPUT: 14.5 FLA, 25 LRA @ 120 VAC
HUMIDIFIER & AIR CLEANER MAX. LOAD: 1.0 A @ 120 VAC

TIMINGS
PREPURGE: 0 SEC.; INTERPURGE: 60 SEC.
POST PURGE: 5 SEC.
IGN WARMUP: 20 SEC.
IAP: 2; TFI: 5 SEC.
RETRIES: 2 RECYCLES: 10
HEAT ON DELAY: 45 SEC.
COOL ON DELAY: 0 SEC.
AUTO RESTART: 60 MIN.
AUTO RESTART PURGE: 60 SEC.

DIAGNOSTIC CODES

RED LED - LiteProTM DATA - 1 FLASH EVERY 20 SEC.
2 FLASHES: RETRIES OR RECYCLES EXCEEDED
3 FLASHES: INDUCER OR PRESSURE SWITCH ERROR
4 FLASHES: OPEN LIMIT OR ROLLOUT SWITCH
5 FLASHES: FLAME SENSED WHEN NO FLAME SHOULD BE PRESENT
6 FLASHES: LINE REVERSE
7 FLASHES: GAS VALVE CIRCUIT ERROR
8 FLASHES: WEAK FLAME
9 FLASHES: OPEN INDUCER LIMIT ERROR

GREEN LED - STATUS
SLOW FLASH: NORMAL, NO CALL FOR HEAT
FAST FLASH: NORMAL, CALL FOR HEAT PRESENT

GREEN AND RED LEDs ON CONTINUOUS:
FUSE OPEN OR INTERNAL CONTROL FAILURE

TCO THERMAL CUT OUT
PS PRESSURE SWITCH
FRS FLAME ROLLOUT SWITCH
FP FLAME SENSOR
CHASSIS GROUND
NSI HOT SURFACE IGNITER
DOOR SWITCH
FUSE
CF CAPACITOR
COIL

LINE, 24 V — FACTORY WIRING
LINE, 24 V — FIELD WIRING

** INTERNAL THERMAL PROTECTION

BK	BLACK	GR	GREEN
WH	WHITE	BR	BROWN
YL	YELLOW	RD	RED
OR	ORANGE	BL	BLUE

WIRE COLOR
BK/1
NUMBER ID (IF ANY)

L	LINE	TH	24 VAC (HOT)
N	NEUTRAL	TR	24 VAC (COMMON)
GND	GROUND	MV	MAIN GAS VALVE
S/C	COMMON	TNS	TRANSFORMER
HLO	HIGH LIMIT OUTPUT	ILI	INDUCER LIMIT INPUT
HLI	HIGH LIMIT INPUT		

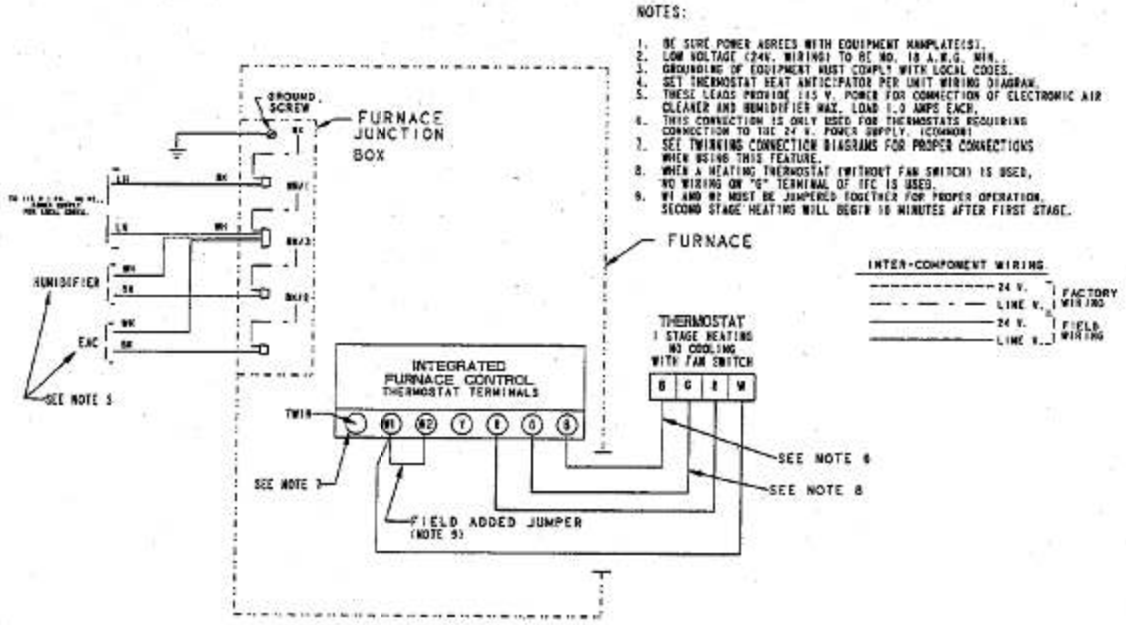
NOTES:
1. IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THIS FURNACE MUST BE REPLACED, IT MUST BE WITH WIRE HAVING A TEMPERATURE RATING OF AT LEAST 105°C.
2. THERMOSTAT HEAT ANTICIPATOR SETTING: FIRST STAGE .38 AMPS, SECOND STAGE .13 AMPS. IF SETTING IS NOT FIXED ON THERMOSTAT, FOR SINGLE STAGE HEATING THERMOSTAT SET AT .51 AMPS.
3. FOR PROPER OPERATION OF COOLING SPEED, "R" TERMINAL MUST BE CONNECTED TO THE ROOM THERMOSTAT.
4. THESE LEADS PROVIDE 120V POWER CONNECTIONS FOR ELECTRONIC AIR CLEANER (EAC) AND HUMIDIFIER (HUM). MAX. LOAD: 1.0 AMPS EACH.
5. JUMPER W1 AND W2 FOR SINGLE STAGE HEATING THERMOSTAT, SECOND STAGE WILL BE ENERGIZED, DELAYED PER STAGING DELAY SETTING.
6. GREEN LIGHT (CFM) FLASHES ONCE PER 100 CFM COMMAND.
7. FOR HEAT PUMP SYSTEMS Y AND O MUST BE CONNECTED TO THE LOW-VOLTAGE TERMINAL BOARD.
8. FOR TWO COMPRESSOR SYSTEMS, USE "YLO" FOR LOW SPEED AND "Y" FOR HIGH SPEED CONNECTION TO THE LOW-VOLTAGE TERMINAL BOARD.
9. OPTIONAL HUMIDISTAT IS TO BE CONNECTED BETWEEN THE "R" AND "BK". FACTORY INSTALLED JUMPER "R" TO "BK" (BK JUMPER) ON THE CIRCUIT BOARD MUST BE CUT IF OPTIONAL HUMIDISTAT IS USED. THE JUMPER MUST ALSO BE CUT WHEN APPLYING AN AIRFLOW COMMAND SIGNAL TO THE "BK" INPUT SUCH AS WITH THE VARIABLE SPEED SINGLE-ZONE AND MULTI-ZONE SYSTEM CONTROLLERS. ON SINGLE SPEED COOLING ONLY / NON-HEAT PUMP SYSTEMS, JUMPER "Y" TO "C" FOR PROPER OPERATION OF THE DELAY PROFILES AND THE HUMIDISTAT. FOR TWO COMPRESSOR OR TWO SPEED SYSTEMS, JUMPER "YLO" TO "O".
10. SEE INDOOR MOTOR AIRFLOW SELECTION CHART, LOCATED IN THE FURNACE FOR DIP SWITCH SETTINGS TO SET AIRFLOW AND COOLING OFF DELAYS.
11. POWER MUST BE OFF WHEN DIP SWITCHES ARE SET.
12. USED FOR +DH2B060A9V4V**, +DH2C100A9V4V** & +DH2D120A9V5V**.
13. ON POWER-UP, LAST FOUR FAULTS, IF ANY, WILL BE FLASHED ON RED LED. GREEN LED WILL BE SOLID ON DURING LAST FAULT RECOVERY.

From drawing D344304

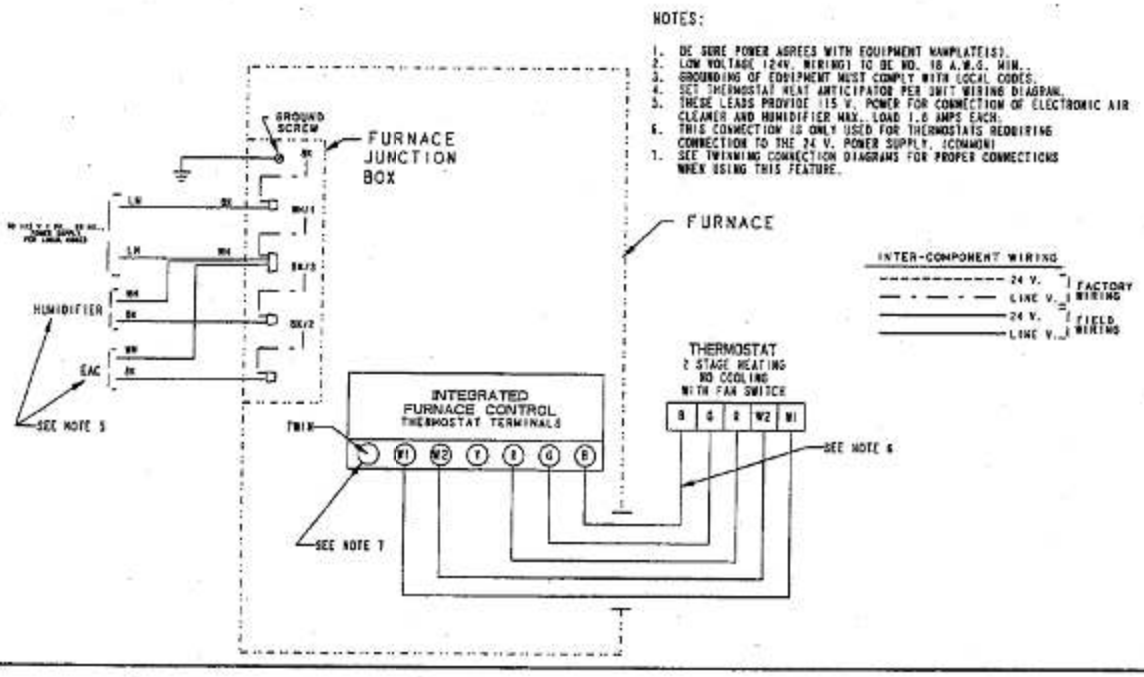
Pub. No. 22-1814-07

Field Wiring

FIELD WIRING DIAGRAM FOR SINGLE STAGE HEATING ONLY



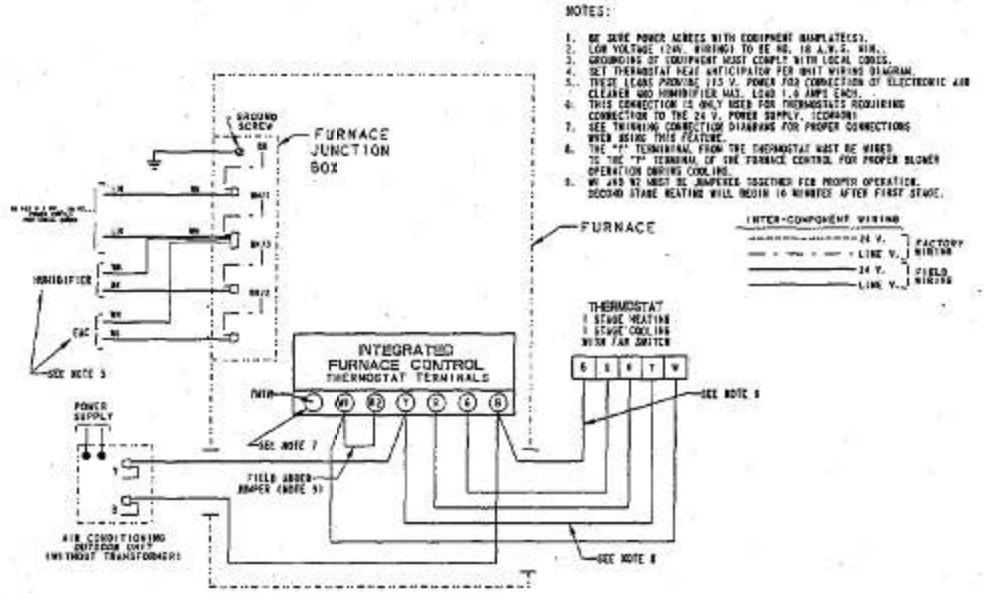
FIELD WIRING DIAGRAM FOR TWO STAGE HEATING ONLY



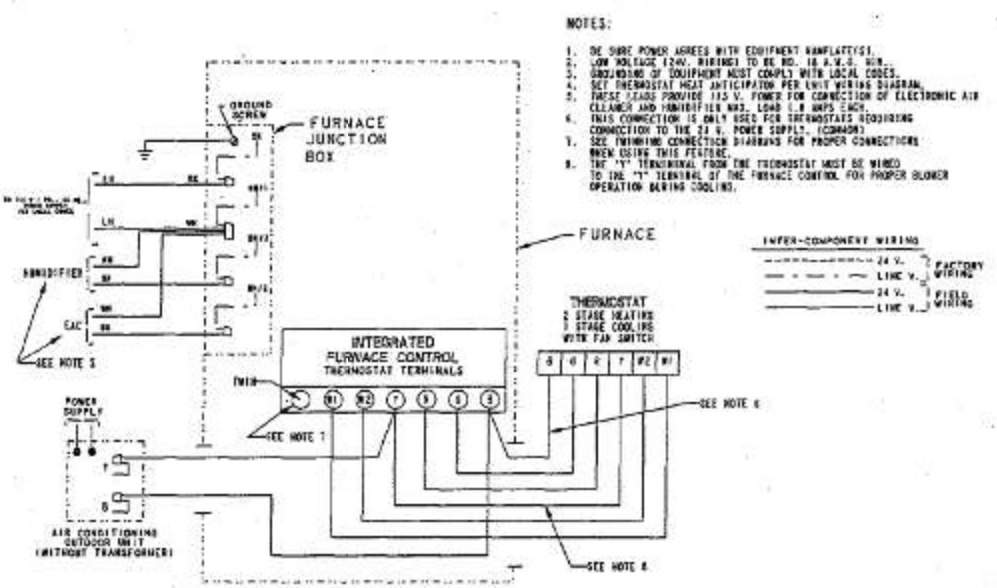
TRANE

Field Wiring

FIELD WIRING DIAGRAM FOR SINGLE STAGE HEATING/COOLING (OUTDOOR SECTION WITHOUT TRANSFORMER)



FIELD WIRING DIAGRAM FOR TWO STAGE HEATING/ SINGLE STAGE COOLING (OUTDOOR SECTION WITHOUT TRANSFORMER)

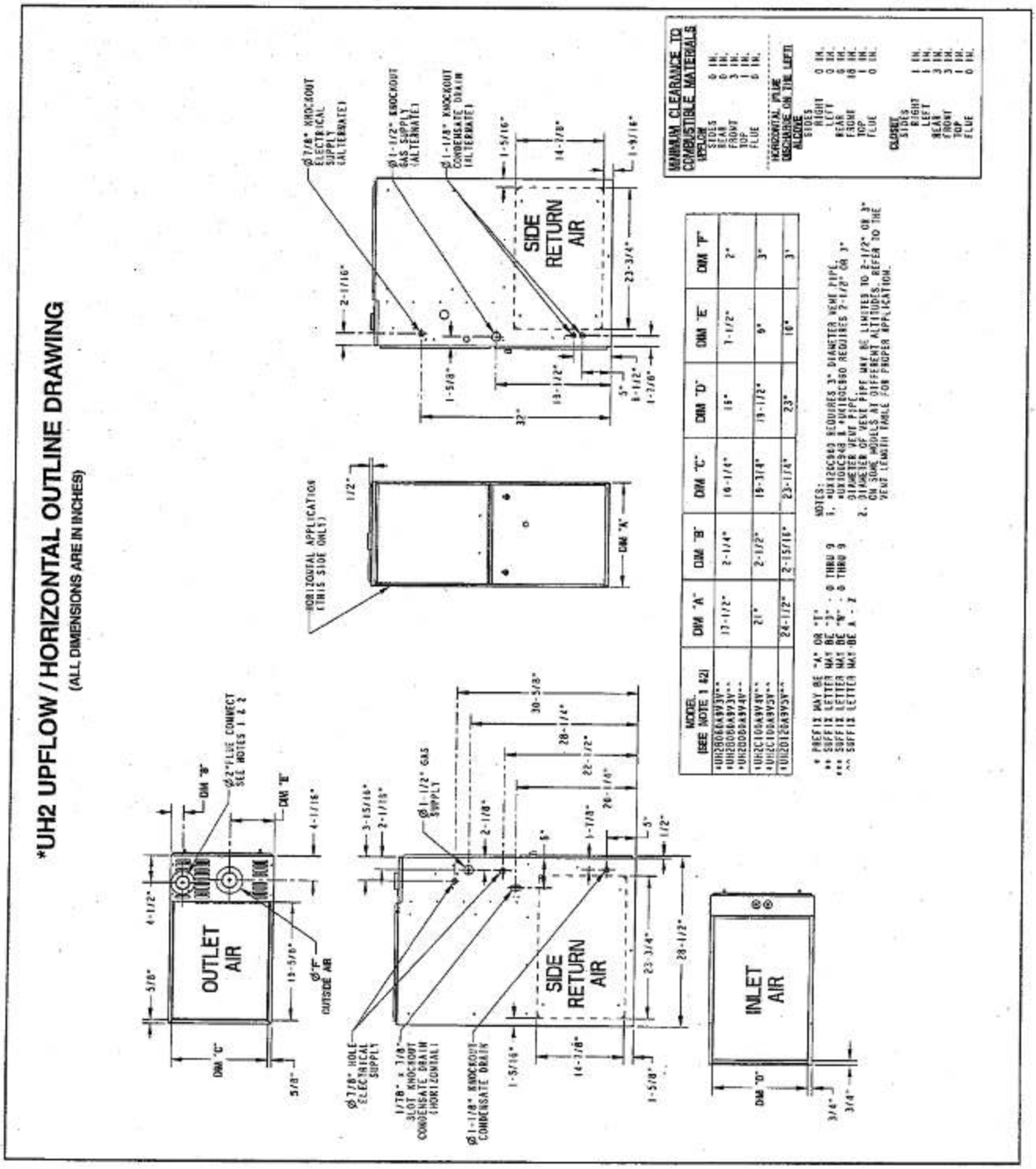


Pub. No. 22-1814-07

Dimensions

*UH2 UPFLOW / HORIZONTAL OUTLINE DRAWING

(ALL DIMENSIONS ARE IN INCHES)



MODEL (SEE NOTE 1 &2)	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"
*UH2B060A4V3V**	17-1/2"	2-1/4"	16-1/4"	15"	1-1/2"	2"
*UH2D060A4V3V**						
*UH2D080A4V4V**						
*UH2C100A4V4V**	21"	2-1/2"	19-3/4"	19-1/2"	5"	3"
*UH2C100A4V5V**						
*UH2D120A4V5V**	24-1/2"	2-15/16"	23-1/4"	23"	10"	3"

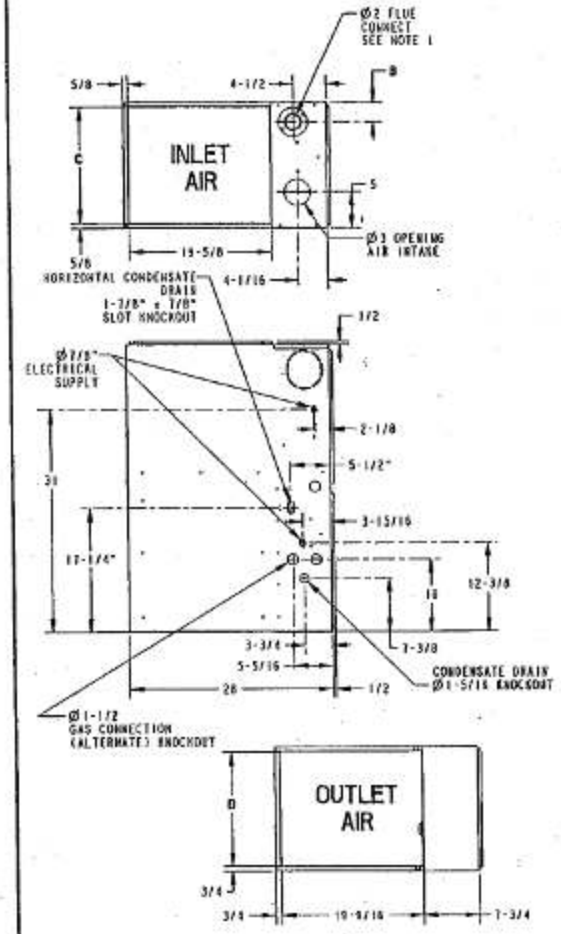
* PREFIX MAY BE "A" OR "T"
** SUFFIX LETTER MAY BE "J" - 0 THRU 9
*** SUFFIX LETTER MAY BE "N" - 0 THRU 9
^^ SUFFIX LETTER MAY BE A - Z

NOTES:
1. *UH2C060A3 REQUIRES 3" DIAMETER VENT PIPE. *UH2D060A4 & *UH2D080A3 REQUIRES 2-1/2" OR 3" DIAMETER VENT PIPE.
2. DIAMETER OF VENT PIPE MAY BE LIMITED TO 2-1/2" OR 3" ON SOME MODELS AT DIFFERENT ALTITUDES. REFER TO THE VENT LENGTH TABLE FOR PROPER APPLICATION.

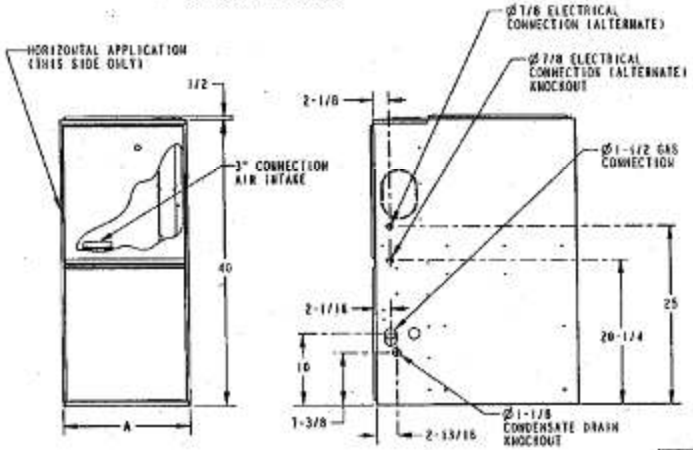
MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS	
UPFLOW	
SIDES	0 IN.
REAR	6 IN.
FRONT	3 IN.
TOP	6 IN.
FLUE	6 IN.
HORIZONTAL FLUE DISCHARGE ON THE LEFT	
ALCOVE	
SIDES	
RIGHT	0 IN.
LEFT	0 IN.
REAR	6 IN.
FRONT	18 IN.
TOP	6 IN.
FLUE	0 IN.
CLOSET	
SIDES	
RIGHT	1 IN.
LEFT	1 IN.
REAR	3 IN.
FRONT	3 IN.
TOP	1 IN.
FLUE	0 IN.

*DH2 DOWNFLOW / HORIZONTAL OUTLINE DRAWING

(ALL DIMENSIONS ARE IN INCHES)



NOTES:
1. DIAMETER OF VENT PIPE MAY BE LIMITED TO 2-1/2" OR 3" ON SOME MODELS AT DIFFERENT ALTITUDES. REFER TO THE VENT LENGTH TABLE FOR PROPER APPLICATION.



MODEL (SEE NOTE 1)	DIM "A"	DIM "B"	DIM "C"	DIM "D"
DH2B060A9V3V *DH2B080A9V3V** *DH2B080A9V4V**	17-1/2"	2-1/4"	16-1/4"	16"
*DH2C100A9V4V**	21"	2-1/2"	19-3/4"	19-1/2"
*DH2D120A9V5V**	24-1/2"	2-15/16"	23-1/4"	23"

* PREFIX MAY BE "A" OR "T"
** SUFFIX LETTER MAY BE "0" - 0 THRU 9
*** SUFFIX LETTER MAY BE "W" - 0 THRU 9
** SUFFIX LETTER MAY BE A - Z

MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS

DOWNFLOW	
SIDES	0 IN.
REAR	0 IN.
FRONT	3 IN.
TOP	1 IN.
FLUE	0 IN.
HORIZONTAL (FLUE DISCHARGE ON THE LEFT)	
ALCOVE	
SIDES	
RIGHT	0 IN.
LEFT	0 IN.
REAR	0 IN.
FRONT	18 IN.
TOP	1 IN.
FLUE	0 IN.
CLOSET	
SIDES	
RIGHT	1 IN.
LEFT	1 IN.
REAR	3 IN.
FRONT	3 IN.
TOP	1 IN.
FLUE	0 IN.

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Notes

Trane
6200 Troup Highway
Tyler, TX 75707
www.trane.com

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