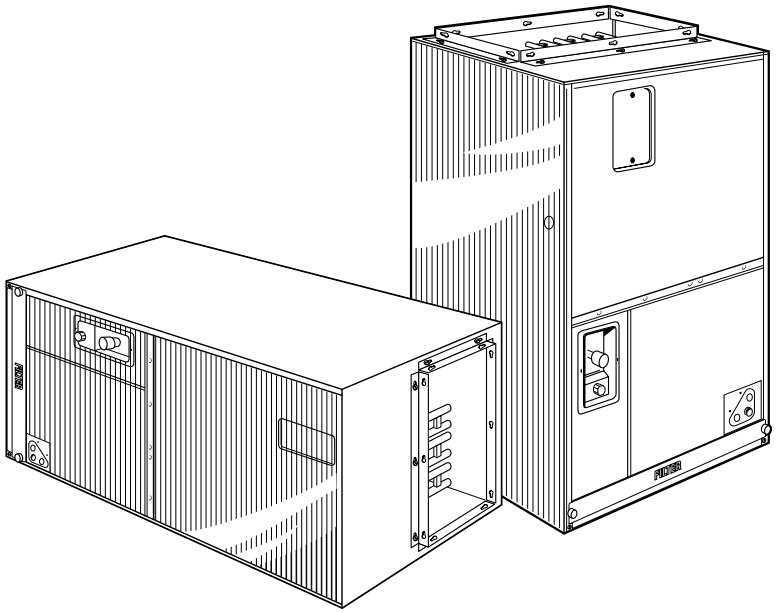
TRANE®

# Cooling/Heat Pump Convertible Air Handlers for R410-A

**4TEP3F18-63A**

**1½ – 5 Ton**



**PUB. NO. 22-1718-01-0801 (EN)**

# Features and Benefits

- 12.0 SEER
- Ships horizontal — converts to vertical by standing unit on end.
- Six-way convertibility – horizontal (left & right), front and rear access; upflow, downflow
- “1-man” installation opportunity
- Electrical, refrigerant, condensate & blower access convertible to either side
- Compact 21" depth for easy installation
- Corrosion resistant galvanized metal with attractive finish
- Superior condensate performance
- Factory installed non-bleed TXV
- Enhanced internally finned coil tubes
- Direct drive motor
- Multi-speed blower
- Versatile duct flange - allows flush fit 3/4", 1" or 1.5" duct insulation
- Filter panel stamped with word “filter”
- 200/230 volt primary & 24 volt secondary transformer
- Low voltage wire nut connections
- Insulated cabinet
- Uses 1400 series heaters
- External access to heater circuit breakers
- Polarized plugs for making electrical connections from air handler control box to heaters



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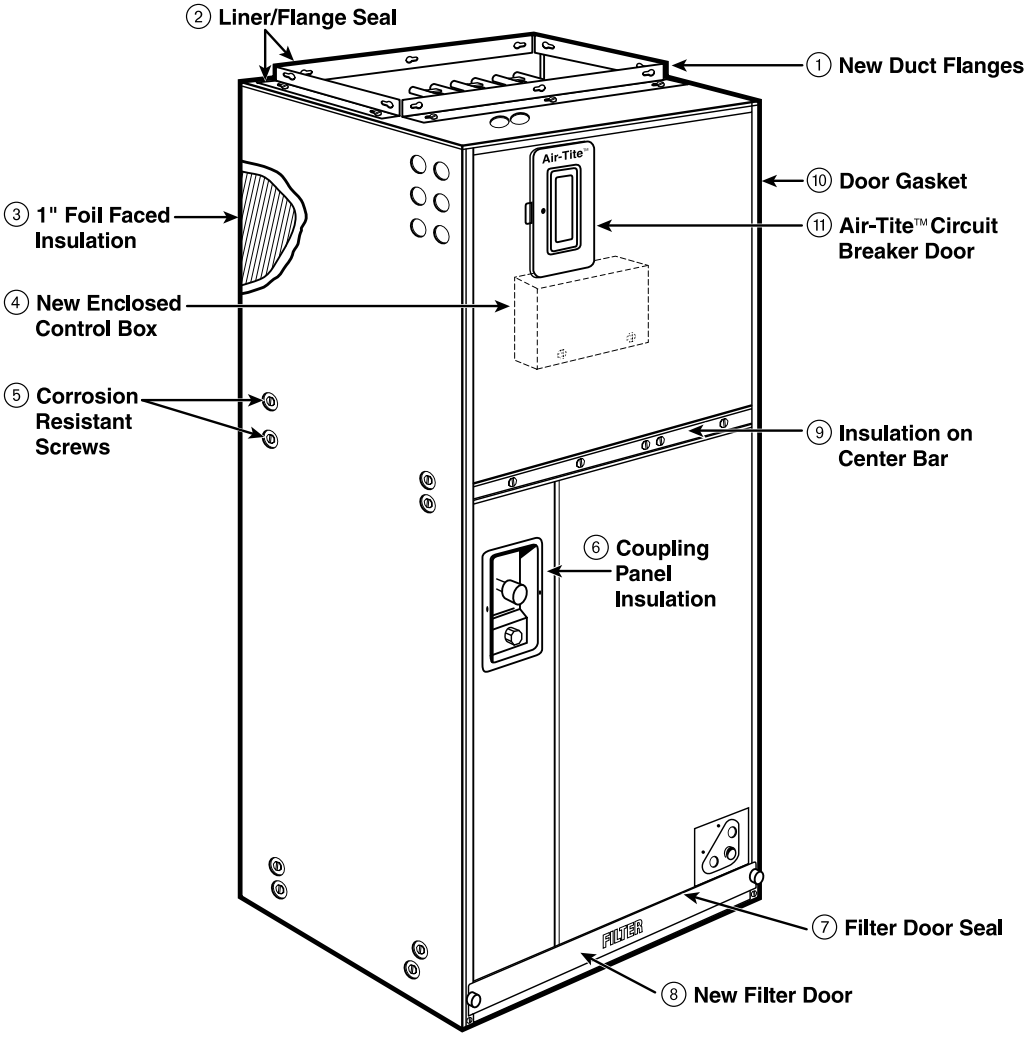
# Contents

# "Air-Tite™" Features and Benefits




① **New Duct Flange** – Allows flush fit for 3/4", 1" or 1 1/2" duct insulation.

② **Liner/Flange Seal** – Exclusive Duct Flange Thermal Break/ Seal and double wall construction to reduce cabinet loss and sweating.

③ **1" Foil Faced Insulation** – Thicker foil faced insulation for reduced cabinet loss, sweating and lower power bills.

④ **Enclosed Control Box** – Totally enclosed control box with transformer inside to improve component life, unit durability and reliability.

⑤ **Corrosion Resistant Screws** – Exclusive "Weatherguard™" coated screws to maintain the quality appearance of the unit for the life of the product.

⑥ **Coupling Panel Insulation** – Exclusive "No Burn" refrigerant coupling panel with thicker insulation for reduced heat loss.

⑦ **Filter Door Seal** – Improved door seal for reduced air infiltration, heat transfer, and lower power bills.

⑧ **New Filter Door** – "Filter" is stamped on the panel, and includes two captive screws with easy grip knobs.

⑨ **Insulation on Center Bar** – Exclusive center bar insulation for reduced cabinet loss, sweating and lower power bills.

⑩ **Door Gasket** – Exclusive formed gasket (similar to a car door gasket) to reduce air infiltration and heat transfer and lower power bills.

⑪ **Air-Tite™ Circuit Breaker Door** – Easy access to breakers with positive air seal.

The SEER test for system efficiency places the air handler in the ambient return air stream (80°F). If your air handler is to be in an unconditioned/severe climatic location you should consider the advantages of the "Air-Tite™" model air handler.



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# General Data

| MODEL | 4TEP3F18A1000A | 4TEP3F24A1000A | 4TEP3F30A1000A | 4TEP3F36A1000A |
|---|---|---|---|---|
| **RATED VOLTS/PH/HZ.** | 208-230/1/60 | 208-230/1/60 | 200-230/1/60 | 200-230/1/60 |
| **RATINGS**① | See O.D. Specifications | See O.D. Specifications | See O.D. Specifications | See O.D. Specifications |
| **INDOOR COIL — Type** | Plate Fin | Plate Fin | Plate Fin | Plate Fin |
| Rows — F.P.I. | 3 - 14 | 3 - 14 | 3 - 14 | 3 — 14.0 |
| Face Area (sq. ft.) | 3.21 | 3.21 | 3.21 | 3.90 |
| Tube Size (in.) | 3/8 - Copper | 3/8 - Copper | 3/8 - Copper | 3/8 - Copper |
| Refrigerant Control | TXVNB | TXVNB | TXVNB | TXVNB |
| Drain Conn. Size (in.)② | 3/4 NPT | 3/4 NPT | 3/4 NPT | 3/4 NPT |
| **INDOOR FAN — Type** | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Diameter-Width (in.) | 9 X 8 | 9 X 8 | 9 X 8 | 10 x 7 |
| No. Used | 1 | 1 | 1 | 1 |
| Drive - No. Speeds | Direct - 3 | Direct - 3 | Direct - 3 | Direct - 3 |
| CFM vs. in w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| No. Motors — H.P. | 1 - 1/4 | 1 - 1/4 | 1 — 1/3 | 1 — 1/3 |
| Motor Speed R.P.M. | 1075 | 1075 | 1075 | 1080 |
| Volts/Ph/Hz | 200-230/1/60 | 200-230/1/60 | 200-230/1/60 | 200-230/1/60 |
| F.L. Amps - L.R. Amps | 1.5 - 3.1 | 1.7 - 2.6 | 2.1 - 4.6 | 2.2 - 5.3 |
| **FILTER** | | | | |
| **Vertical Applications** | | | | |
| Filter Furnished? | Yes | Yes | Yes | Yes |
| Type Recommended | Throwaway | Throwaway | Throwaway | Throwaway |
| No.-Size-Thickness | 1 - 20 X 20 - 1 in. | 1 - 20 X 20 - 1 in. | 1 - 20 x 20 x 1 in. | 1 - 20 x 20 x 1 in. |
| **Horizontal Applications** | | | | |
| Filter Furnished? | No | No | No | No |
| Recommended Size ③ | See Note ③ | See Note ③ | See Note ③ | See Note ③ |
| **REFRIGERANT (R-410A)** | | | | |
| Ref. Line Connections | Brazed | Brazed | Brazed | Brazed |
| Coupling or Conn. Size — in. Gas | 1/2 | 5/8 | 3/4 | 3/4 |
| Coupling or Conn. Size — in Liq. | 1/4 | 5/16 | 5/16 | 3/8 |
| **DIMENSIONS** | H x W x D | H x W x D | H x W x D | H x W x D |
| Crated (in.) | 44 1/2 x 24 x 23-1/2 | 44 1/2 x 24 x 23-1/2 | 44-1/2 x 24 x 23-1/2 | 46-1/2 x 24 x 23-1/2 |
| Uncrated | See Outline Drawing | See Outline Drawing | See Outline Drawing | See Outline Drawing |
| **WEIGHT** | | | | |
| Shipping (Lbs.) / Net (Lbs.) | 121/111 | 121/111 | 121/111 | 135/125 |

| MODEL | 4TEP3F42A1000A | 4TEP3F48A1000A | 4TEP3F63A1000A |
|---|---|---|---|
| **RATED VOLTS/PH/HZ.** | 200-230/1/60 | 200-230/1/60 | 200-230/1/60 |
| **RATINGS**① | See O.D. Specifications | See O.D. Specifications | See O.D. Specifications |
| **INDOOR COIL — Type** | Plate Fin | Plate Fin | Plate Fin |
| Rows — F.P.I. | 3 — 14 | 4 — 14 | 4 — 14 |
| Face Area (sq. ft.) | 5.04 | 6.19 | 7.33 |
| Tube Size (in.) | 3/8 - Copper | 3/8 - Copper | 3/8 - Copper |
| Refrigerant Control | TXVNB | TXBNB | TXVNB |
| Drain Conn. Size (in.)② | 3/4 NPT | 3/4 NPT | 3/4 NPT |
| **INDOOR FAN — Type** | Centrifugal | Centrifugal | Centrifugal |
| Diameter-Width (in.) | 10 x 10 | 10 x 10 | 11 x 10 |
| No. Used | 1 | 1 | 1 |
| Drive - No. Speeds | Direct - 3 | Direct - 3 | Direct - 3 |
| CFM vs. in w.g. | See Fan Performance Table | See Fan Performance Table | See Fan Performance Table |
| No. Motors — H.P. | 1 — 1/2 | 1 — 1/2 | 1 — 3/4 |
| Motor Speed R.P.M. | 1075 | 1075 | 1075 |
| Volts/Ph/Hz | 200-230/1/60 | 200-230/1/60 | 200-230/1/60 |
| F.L. Amps - L.R. Amps | 3.3 - 7.8 | 3.1 - 6.6 | 3.9 - 8.9 |
| **FILTER** | | | |
| **Vertical Applications** | | | |
| Filter Furnished? | Yes | Yes | Yes |
| Type Recommended | Throwaway | Throwaway | High Velocity |
| No.-Size-Thickness | 1 - 20 x 20 x 1 in. | 1 - 20 x 25 x 1 in. | 1 - 20 x 25 x 1 in. |
| **Horizontal Applications** | | | |
| Filter Furnished? | No | No | No |
| Recommended Size ③ | See Note ③ | See Note ③ | See Note ③ |
| **REFRIGERANT (R-410A)** | | | |
| Ref. Line Connections | Brazed | Brazed | Brazed |
| Coupling or Conn. Size — in. Gas | 3/4 | 7/8 | 7/8 |
| Coupling or Conn. Size — in Liq. | 3/8 | 3/8 | 3/8 |
| **DIMENSIONS** | H x W x D | H x W x D | H x W x D |
| Crated (in.) | 53-1/4 x 26 x 23-1/2 | 53-1/2 x 26 x 23-1/2 | 64-1/2 x 28-1/2 x 23-1/2 |
| Uncrated | See Outline Drawing | See Outline Drawing | See Outline Drawing |
| **WEIGHT** | | | |
| Shipping (Lbs.) / Net (Lbs.) | 165/150 | 188/173 | 211/196 |

① These Air Handlers are A.R.I. certified with various Split System Air Conditioners and Heat Pumps (ARI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

② 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)

③ Minimum filter size for horizontal applications will be based on airflow selection and will be calculated as follows: Low Velocity Filter: Face area (Sq. Ft.) = CFM / 300
High Velocity Filter: Face area (Sq. Ft.) = CFM / 500

# Performance Data

| AIR FLOW PERFORMANCE 4TEP3F18A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (See Notes) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 200 | | | 0.65 | | | 0.56 | | | 0.69 | | | 0.56 |
| 250 | | | 0.59 | | | 0.44 | | | 0.63 | | | 0.47 |
| 300 | | | 0.52 | | 0.74 | 0.32 | | | 0.55 | | | 0.36 |
| 350 | | | 0.42 | | 0.68 | 0.19 | | | 0.44 | | | 0.24 |
| 400 | | | 0.29 | 0.80 | 0.61 | 0.07 | | | 0.32 | | 0.62 | 0.10 |
| 450 | | | 0.15 | 0.78 | 0.51 | | | | 0.18 | | 0.53 | 0.00 |
| 500 | | 0.53 | 0.00 | 0.75 | 0.39 | | | | 0.02 | | 0.41 | |
| 550 | | 0.48 | | 0.71 | 0.25 | | | | | 0.65 | 0.27 | |
| 600 | 0.71 | 0.39 | | 0.66 | 0.08 | | | 0.48 | | 0.61 | 0.11 | |
| 650 | 0.66 | 0.25 | | 0.61 | | | 0.67 | 0.42 | | 0.57 | 0.00 | |
| 700 | 0.60 | 0.06 | | 0.55 | | | 0.62 | 0.30 | | 0.52 | | |
| 750 | 0.54 | | | 0.48 | | | 0.57 | 0.13 | | 0.46 | | |
| 800 | 0.47 | | | 0.41 | | | 0.51 | 0.10 | | 0.38 | | |
| 850 | 0.40 | | | 0.33 | | | 0.44 | | | 0.30 | | |
| 900 | 0.32 | | | 0.25 | | | 0.37 | | | 0.02 | | |
| 950 | 0.24 | | | 0.15 | | | 0.28 | | | 0.09 | | |
| 1000 | 0.16 | | | 0.05 | | | 0.19 | | | | | |
| 1050 | 0.07 | | | | | | 0.09 | | | | | |

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

| AIR FLOW PERFORMANCE 4TEP3F24A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (See Notes) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 300 | | | | | | 0.65 | | | | | | |
| 350 | | | | | | 0.63 | | | | | | |
| 400 | | | 0.61 | | | 0.60 | | | | | 0.66 | 0.64 |
| 450 | | | 0.59 | | 0.55 | 0.54 | | | 0.69 | | 0.64 | 0.59 |
| 500 | | 0.61 | 0.55 | | 0.53 | 0.48 | | | 0.63 | | 0.61 | 0.52 |
| 550 | 0.60 | 0.57 | 0.50 | 0.71 | 0.50 | 0.40 | | 0.63 | 0.56 | 0.60 | 0.55 | 0.43 |
| 600 | 0.58 | 0.52 | 0.44 | 0.65 | 0.45 | 0.31 | 0.60 | 0.57 | 0.48 | 0.59 | 0.49 | 0.34 |
| 650 | 0.55 | 0.47 | 0.36 | 0.58 | 0.38 | 0.20 | 0.58 | 0.51 | 0.40 | 0.56 | 0.41 | 0.22 |
| 700 | 0.52 | 0.40 | 0.27 | 0.51 | 0.29 | 0.08 | 0.55 | 0.43 | 0.30 | 0.53 | 0.32 | 0.10 |
| 750 | 0.47 | 0.32 | 0.17 | 0.44 | 0.18 | | 0.51 | 0.35 | 0.19 | 0.48 | 0.21 | |
| 800 | 0.42 | 0.24 | 0.05 | 0.37 | 0.06 | | 0.46 | 0.26 | 0.08 | 0.43 | 0.09 | |
| 850 | 0.36 | 0.14 | | 0.30 | | | 0.40 | 0.16 | | 0.36 | | |
| 900 | 0.30 | 0.04 | | 0.23 | | | 0.33 | 0.05 | | 0.28 | | |
| 950 | 0.22 | | | 0.16 | | | 0.25 | | | 0.19 | | |
| 1000 | 0.14 | | | 0.09 | | | 0.16 | | | 0.09 | | |
| 1050 | 0.05 | | | 0.01 | | | 0.06 | | | | | |

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.



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# Performance Data

| AIR FLOW PERFORMANCE 4TEP3F30A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (SEE NOTES) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 500 | | | | | | 0.55 | | | | | | |
| 550 | | | | | | 0.51 | | | | | | 0.60 |
| 600 | | | | | 0.67 | 0.41 | | | | | | 0.58 |
| 650 | | | 0.54 | | 0.60 | 0.23 | | | 0.60 | | | 0.51 |
| 700 | | | 0.53 | | 0.52 | 0.00 | | | 0.57 | | 0.51 | 0.47 |
| 750 | | 0.48 | 0.44 | 0.65 | 0.41 | | | 0.54 | 0.53 | | 0.48 | 0.35 |
| 800 | 0.52 | 0.47 | 0.27 | 0.59 | 0.30 | | 0.60 | 0.52 | 0.46 | 0.59 | 0.41 | 0.05 |
| 850 | 0.50 | 0.41 | 0.00 | 0.52 | 0.10 | | 0.57 | 0.47 | 0.32 | 0.55 | 0.32 | |
| 900 | 0.47 | 0.30 | | 0.42 | 0.01 | | 0.54 | 0.40 | 0.03 | 0.52 | 0.21 | |
| 950 | 0.41 | 0.15 | | 0.29 | | | 0.49 | 0.31 | | 0.45 | 0.02 | |
| 1000 | 0.33 | 0.00 | | 0.14 | | | 0.41 | 0.19 | | 0.33 | | |
| 1050 | 0.22 | | | 0.00 | | | 0.32 | 0.04 | | 0.19 | | |
| 1100 | 0.10 | | | | | | 0.23 | | | 0.00 | | |
| 1150 | 0.00 | | | | | | 0.12 | | | | | |
| 1200 | | | | | | | 0.02 | | | | | |

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

| AIR FLOW PERFORMANCE 4TEP3F36A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (SEE NOTES) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 650 | | | | | | 0.50 | | | | | 0.83 | 0.60 |
| 700 | | | | | 0.72 | 0.47 | | | | | 0.80 | 0.58 |
| 750 | | | | | 0.70 | 0.42 | | | 0.68 | | 0.76 | 0.55 |
| 800 | | 0.92 | 0.54 | | 0.66 | 0.31 | | 0.79 | 0.65 | | 0.70 | 0.37 |
| 850 | 0.93 | 0.83 | 0.51 | 0.86 | 0.60 | 0.26 | 0.73 | 0.77 | 0.60 | 0.87 | 0.61 | 0.03 |
| 900 | 0.89 | 0.74 | 0.46 | 0.80 | 0.54 | 0.14 | 0.71 | 0.73 | 0.48 | 0.80 | 0.51 | |
| 950 | 0.78 | 0.65 | 0.37 | 0.74 | 0.47 | 0.00 | 0.68 | 0.68 | 0.29 | 0.73 | 0.38 | |
| 1000 | 0.70 | 0.55 | 0.27 | 0.67 | 0.38 | | 0.65 | 0.61 | 0.03 | 0.65 | 0.23 | |
| 1050 | 0.62 | 0.46 | 0.13 | 0.60 | 0.28 | | 0.61 | 0.52 | | 0.58 | 0.06 | |
| 1100 | 0.54 | 0.36 | 0.00 | 0.50 | 0.16 | | 0.56 | 0.42 | | 0.50 | | |
| 1150 | 0.45 | 0.26 | | 0.39 | 0.03 | | 0.50 | 0.31 | | 0.42 | | |
| 1200 | 0.37 | 0.15 | | 0.32 | | | 0.44 | 0.18 | | 0.33 | | |
| 1250 | 0.29 | 0.05 | | 0.25 | | | 0.37 | 0.03 | | 0.24 | | |
| 1300 | 0.20 | | | 0.17 | | | 0.30 | | | 0.15 | | |
| 1350 | 0.12 | | | 0.09 | | | 0.22 | | | 0.06 | | |
| 1400 | 0.03 | | | | | | 0.13 | | | | | |
| 1450 | | | | | | | 0.03 | | | | | |

NOTES:
Vertical:
With filter, no horizontal drip tray.
Small apex baffle.
Subtract 0.06" W.G. for downflow.

Horizontal:
As shipped but without filter.
Subtract 0.05" W.G. for horizontal left.

# Performance Data

| AIR FLOW PERFORMANCE 4TEP3F42A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (See Notes) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 900 | | | 0.75 | | | 0.57 | | | | | | 0.58 |
| 950 | | | 0.67 | | 0.77 | 0.48 | | | 0.72 | | 0.78 | 0.48 |
| 1000 | | 0.79 | 0.60 | | 0.72 | 0.38 | | 0.80 | 0.64 | | 0.72 | 0.37 |
| 1050 | | 0.74 | 0.52 | | 0.66 | 0.24 | | 0.75 | 0.56 | | 0.66 | 0.25 |
| 1100 | | 0.67 | 0.44 | 0.77 | 0.60 | 0.00 | 0.85 | 0.69 | 0.48 | 0.82 | 0.59 | 0.00 |
| 1150 | 0.76 | 0.61 | 0.35 | 0.72 | 0.53 | | 0.80 | 0.62 | 0.38 | 0.76 | 0.52 | |
| 1200 | 0.71 | 0.55 | 0.26 | 0.66 | 0.45 | | 0.74 | 0.56 | 0.28 | 0.70 | 0.45 | |
| 1300 | 0.60 | 0.42 | 0.00 | 0.54 | 0.24 | | 0.63 | 0.43 | 0.03 | 0.58 | 0.29 | |
| 1400 | 0.48 | 0.29 | | 0.41 | | | 0.52 | 0.30 | | 0.46 | 0.04 | |
| 1500 | 0.34 | 0.14 | | 0.28 | | | 0.39 | 0.15 | | 0.34 | | |
| 1600 | 0.21 | | | 0.15 | | | 0.27 | | | 0.20 | | |
| 1700 | 0.00 | | | 0.00 | | | 0.13 | | | 0.04 | | |

NOTES:
Vertical: With filter, no horizontal drip tray. Small apex baffle. Subtract 0.06" W.G. for downflow.
Horizontal: As shipped but without filter. Subtract 0.05" W.G. for horizontal left.

SEE AIR FLOW RESISTANCE TABLE FOR PRESSURE LOSS WITH SUPPLEMENTARY HEATERS.

| AIR FLOW PERFORMANCE 4TEP3F48A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (See Notes) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 1100 | | | | | 0.77 | 0.64 | | | | | | 0.65 |
| 1200 | | 0.77 | 0.66 | | 0.64 | 0.44 | | 0.83 | 0.73 | | 0.71 | 0.45 |
| 1300 | 0.85 | 0.65 | 0.51 | 0.82 | 0.51 | 0.16 | | 0.72 | 0.58 | | 0.53 | 0.00 |
| 1400 | 0.75 | 0.52 | 0.34 | 0.71 | 0.33 | | 0.83 | 0.60 | 0.40 | | 0.28 | |
| 1500 | 0.65 | 0.38 | 0.10 | 0.60 | 0.00 | | 0.74 | 0.46 | 0.00 | 0.71 | | |
| 1600 | 0.54 | 0.22 | | 0.48 | | | 0.64 | 0.28 | | 0.60 | | |
| 1700 | 0.43 | 0.00 | | 0.36 | | | 0.54 | 0.02 | | 0.48 | | |
| 1800 | 0.31 | | | 0.23 | | | 0.43 | | | 0.36 | | |
| 1900 | 0.19 | | | 0.08 | | | 0.21 | | | 0.23 | | |
| 2000 | 0.05 | | | | | | 0.08 | | | 0.09 | | |
| 2100 | | | | | | | | | | | | |

NOTES:
Vertical: With filter, no horizontal drip tray. Small apex baffle. Subtract 0.06" W.G. for downflow.
Horizontal: As shipped but without filter. Subtract 0.05" W.G. for horizontal left.

SEE AIR FLOW RESISTANCE TABLE FOR PRESSURE LOSS WITH SUPPLEMENTARY HEATERS.


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# Performance Data

| AIR FLOW PERFORMANCE 4TEP3F63A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL STATIC PRESSURE (INCHES OF WATER) | | | | | | | | | | | | |
| | VERTICAL (See Notes) | | | | | | HORIZONTAL (See Notes) | | | | | |
| | 230 VOLTS | | | 208 VOLTS | | | 230 VOLTS | | | 208 VOLTS | | |
| CFM | HI | MED | LO | HI | MED | LO | HI | MED | LO | HI | MED | LO |
| 1400 | | | | | | 0.61 | | | | | | 0.66 |
| 1500 | | | 0.75 | | 0.74 | 0.39 | | | | | 0.82 | 0.44 |
| 1600 | | 0.77 | 0.58 | | 0.58 | 0.00 | | | 0.69 | | 0.67 | 0.00 |
| 1700 | 0.83 | 0.66 | 0.38 | 0.73 | 0.40 | | | 0.78 | 0.47 | | 0.49 | |
| 1800 | 0.72 | 0.53 | 0.13 | 0.60 | 0.20 | | 0.85 | 0.63 | 0.00 | 0.74 | 0.00 | |
| 1900 | 0.61 | 0.38 | | 0.46 | | | 0.74 | 0.48 | | 0.60 | | |
| 2000 | 0.50 | 0.20 | | 0.30 | | | 0.62 | 0.29 | | 0.43 | | |
| 2100 | 0.37 | | | 0.12 | | | 0.49 | | | 0.17 | | |
| 2200 | 0.22 | | | | | | 0.36 | | | | | |
| 2300 | 0.02 | | | | | | 0.17 | | | | | |

NOTES:
Vertical: With filter, no horizontal drip tray. Small apex baffle. Subtract 0.06" W.G. for downflow.

Horizontal: As shipped but without filter. Subtract 0.05" W.G. for horizontal left.

SEE AIR FLOW RESISTANCE TABLE FOR PRESSURE LOSS WITH SUPPLEMENTARY HEATERS.

## PRESSURE DROP FOR ELECTRIC HEATERS IN AIR HANDLER MODELS

| NUMBER OF RACKS | | | | | |
|---|---|---|---|---|---|
| AIRFLOW CFM | 1 | 2 | 3 | 4 | 5 |
| | AIR PRESSURE DROP INCHES W.G. | | | | |
| 600 | 0.01 | 0.02 | 0.02 | | |
| 700 | 0.01 | 0.02 | 0.02 | | |
| 800 | 0.02 | 0.03 | 0.03 | 0.04 | |
| 900 | 0.03 | 0.03 | 0.04 | 0.05 | |
| 1000 | 0.04 | 0.04 | 0.05 | 0.06 | |
| 1100 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 |
| 1200 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 |
| 1300 | 0.06 | 0.07 | 0.08 | 0.09 | 0.11 |
| 1400 | 0.07 | 0.08 | 0.10 | 0.11 | 0.13 |
| 1500 | 0.08 | 0.09 | 0.11 | 0.13 | 0.15 |
| 1600 | 0.09 | 0.10 | 0.12 | 0.15 | 0.17 |
| 1700 | 0.10 | 0.11 | 0.14 | 0.17 | 0.19 |
| 1800 | 0.11 | 0.13 | 0.16 | 0.19 | 0.21 |
| 1900 | 0.13 | 0.15 | 0.18 | 0.21 | 0.23 |
| 2000 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 |

| HEATER RACKS | |
|---|---|
| HEATER MODEL NO. | NO. OF RACKS |
| BAYHTR1405 | 1 |
| BAYHTR1408 | 2 |
| BAYHTR1/3410 | 2 |
| BAYHTR1/3415 | 3 |
| BAYHTR1419 | 4 |
| BAYHTR1425 | 5 |

NOTES:
1. See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters
2. Heater model numbers may have additional suffix digits.

# Performance Data

## Air Handler/Minimum Fan Speed Heater Matrix

| Air Handler Model | Unit Position | Application | HEATER MODEL NUMBER BAYHTR 1405 4.80KW | 1408 7.68KW | *410 9.60KW | *415 15.36KW | 1419 19.20KW | 1425 * = 1 or 3 24.96KW |
|---|---|---|---|---|---|---|---|---|
| 4TEP3F18A | Vertical | A/C or Elec. Furnace | L | L | L | — | — | — |
| | Upflow | Heat Pump | L | M | M | — | — | — |
| | Vertical | A/C or Elec. Furnace | L | L | L | — | — | — |
| | Downflow | Heat Pump | L | M | M | — | — | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | — | — | — |
| | Left | Heat Pump | L | M | M | — | — | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | — | — | — |
| | Right | Heat Pump | L | M | M | — | — | — |
| 4TEP3F24A | Vertical | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Upflow | Heat Pump | L | L | L | M | — | — |
| | Vertical | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Downflow | Heat Pump | L | L | L | M | — | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Left | Heat Pump | L | L | L | M | — | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Right | Heat Pump | L | L | L | M | — | — |
| 4TEP3F30A | Vertical | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Upflow | Heat Pump | L | L | L | M | — | — |
| | Vertical | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Downflow | Heat Pump | L | L | L | M | — | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Left | Heat Pump | L | L | L | M | — | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | — | — |
| | Right | Heat Pump | L | L | L | M | — | — |
| 4TEP3F36A | Vertical | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Upflow | Heat Pump | L | L | L | H | H | — |
| | Vertical | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Downflow | Heat Pump | L | L | L | H | H | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Left | Heat Pump | L | L | L | H | H | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Right | Heat Pump | L | L | L | H | H | — |
| 4TEP3F42A | Vertical | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Upflow | Heat Pump | L | L | L | M | H | — |
| | Vertical | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Downflow | Heat Pump | L | L | L | H | H | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Left | Heat Pump | L | L | L | H | H | — |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | — |
| | Right | Heat Pump | L | L | L | H | H | — |
| 4TEP3F48A | Vertical | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Upflow | Heat Pump | L | L | L | L | H | H |
| | Vertical | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Downflow | Heat Pump | L | L | L | H | H | H |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Left | Heat Pump | L | L | L | H | H | H |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Right | Heat Pump | L | L | L | L | H | H |
| 4TEP3F63A | Vertical | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Upflow | Heat Pump | L | L | L | L | H | H |
| | Vertical | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Downflow | Heat Pump | L | L | L | M | H | H |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Left | Heat Pump | L | L | L | M | H | H |
| | Horizontal | A/C or Elec. Furnace | L | L | L | L | L | L |
| | Right | Heat Pump | L | L | L | M | H | H |



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# Performance Data

| 4TEP3F18A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 27 | 30 | 3.60 | 12300 | 17.3 | 23 | 25 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 42 | 45 | 5.76 | 19700 | 27.7 | 36 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 52 | 60 | 7.20 | 24600 | 34.6 | 45 | 45 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30.0 | 37 | 40 |

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC= contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

| 4TEP3F24A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 27 | 30 | 3.60 | 12300 | 17.3 | 24 | 25 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 42 | 45 | 5.76 | 19700 | 27.7 | 37 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 52 | 60 | 7.20 | 24600 | 34.6 | 45 | 45 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30.0 | 37 | 40 |
| BAYHTR1415 BRK | 2/1 | 15.36 | 52400 | 40/24 | 52*/30 | 60*/30 | 11.53 | 39300 | 34.6/20.8 | 45*/26 | 45*/30 |
| BAYHTR3415 000 | 1/3 | 15.36 | 52400 | 38.2 | 49 | 50 | 11.53 | 39300 | 33.1 | 43 | 45 |

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, PDC 000 = pigtails, PDC= contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

| 4TEP3F30A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 28 | 30 | 3.60 | 12300 | 17.3 | 24 | 25 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 43 | 45 | 5.76 | 19700 | 27.7 | 37 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 53 | 60 | 7.20 | 24600 | 34.6 | 46 | 50 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30 | 37 | 40 |
| BAYHTR1415 BRK | 2/1 | 15.36 | 52400 | 40/24 | 53*/30 | 60*/30 | 11.53 | 39300 | 34.6/20.8 | 46*/26 | 50*/30 |
| BAYHTR3415 000 | 1/3 | 15.36 | 52400 | 38.2 | 50 | 50 | 11.53 | 39300 | 33.1 | 44 | 45 |

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, PDC 000 = pigtails, BRK = circuit breakers, PDC = contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

# Performance Data

| 4TEP3F36A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 28 | 30 | 3.60 | 12300 | 17.3 | 24 | 25 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 43 | 45 | 5.76 | 19700 | 27.7 | 37 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 53 | 60 | 7.20 | 24600 | 34.6 | 46 | 50 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30.0 | 37 | 40 |
| BAYHTR1415 BRK | 2/1 | 15.36 | 52400 | 40/24 | 53*/30 | 60*/30 | 11.53 | 39300 | 34.6/20.8 | 46*/26 | 50*/30 |
| BAYHTR3415 000 | 1/3 | 15.36 | 52400 | 38.2 | 50 | 50 | 11.53 | 39300 | 33.1 | 44 | 45 |
| BAYHTR1419 BRK | 2/1 | 19.20 | 65500 | 32/48 | 43*/60 | 45*/60 | 14.42 | 49200 | 27.7/41.6 | 37*/52 | 40*/60 |

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

| 4TEP3F42A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit 1) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 29 | 30 | 3.60 | 12300 | 17.3 | 26 | 30 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 44 | 45 | 5.76 | 19700 | 27.7 | 39 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 54 | 60 | 7.20 | 24600 | 34.6 | 47 | 50 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30.0 | 37 | 40 |
| BAYHTR1415 BRK | 2/1 | 15.36 | 52400 | 40/24 | 54*/30 | 60*/30 | 11.53 | 39300 | 34.6/20.8 | 47*/26 | 50*/30 |
| BAYHTR3415 000 | 1/3 | 15.36 | 52400 | 38.2 | 51 | 60 | 11.53 | 39300 | 33.1 | 45 | 45 |
| BAYHTR1419 BRK | 2/1 | 19.20 | 65500 | 32/48 | 44*/60 | 45*/60 | 14.42 | 49200 | 27.7/41.6 | 39*/52 | 40*/60 |

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.


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# Performance Data

| 4TEP3F48A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit *) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 29 | 30 | 3.60 | 12300 | 17.3 | 26 | 30 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 44 | 45 | 5.76 | 19700 | 27.7 | 39 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 54 | 60 | 7.20 | 24600 | 34.6 | 47 | 50 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30 | 37 | 40 |
| BAYHTR1415 BRK | 2/1 | 15.36 | 52400 | 40/24 | 54*/30 | 60*/30 | 11.53 | 39300 | 34.6/20.8 | 47*/26 | 50*/30 |
| BAYHTR3415 000 | 1/3 | 15.36 | 52400 | 38.2 | 51 | 60 | 11.53 | 39300 | 33.1 | 45 | 45 |
| BAYHTR1419 BRK | 2/1 | 19.2 | 65500 | 32/48 | 44*/60 | 45*/60 | 14.42 | 49200 | 27.7/41.6 | 39*/52 | 40*/60 |
| BAYHTR1425 BRK | 3/1 | 24.96 | 85200 | 44/40/20 | 55/54*/25 | 60/60*/25 | 18.73 | 63900 | 38.1/34.6/17.3 | 48/47*/22 | 50/50*/25 |

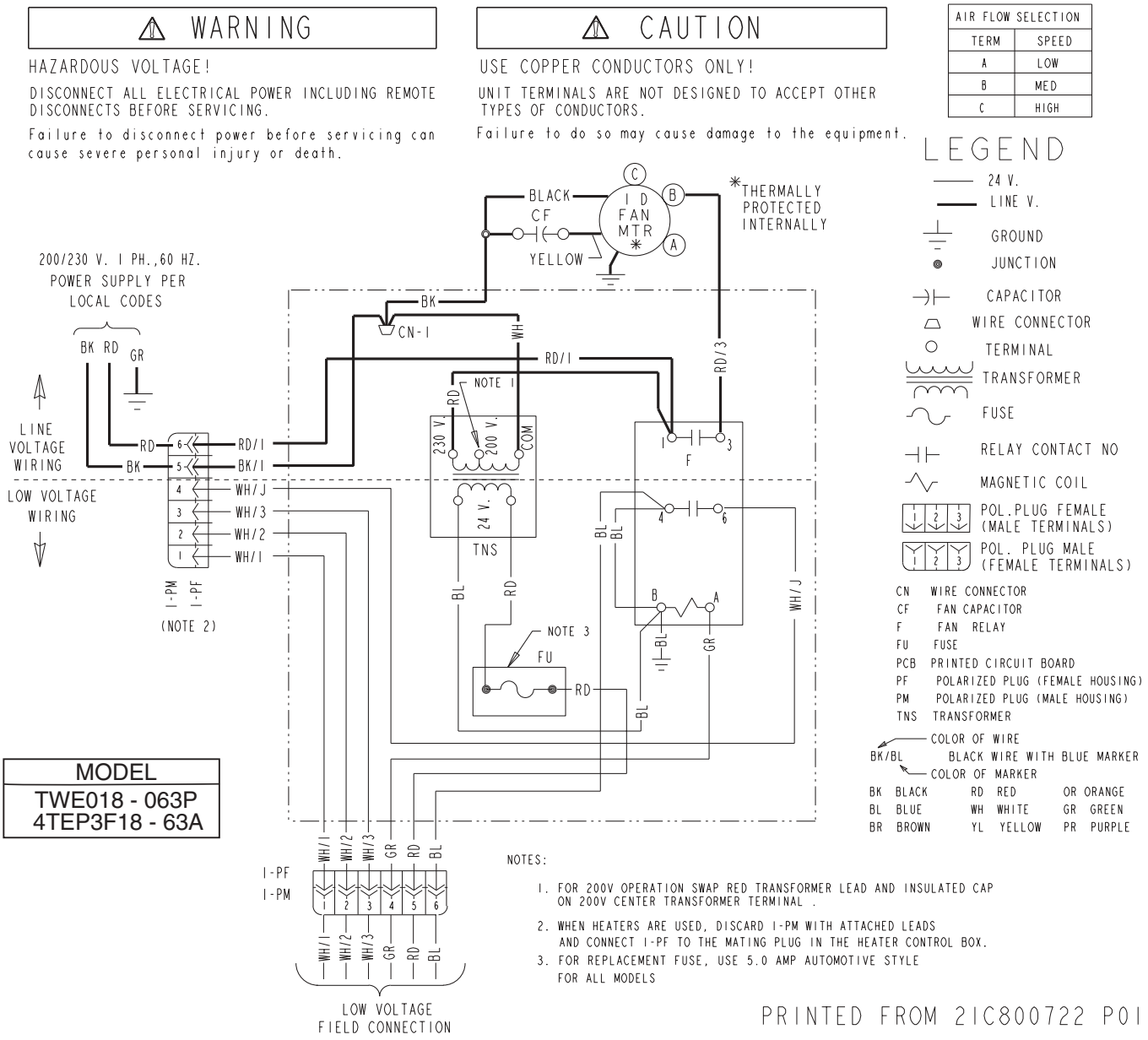
NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

| 4TEP3F63A WIRING DATA (Indoor Blower Motor Powered from Heater Circuit *) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | Number of Circuits/ Phase | 240 VOLT | | | | | 208 VOLT | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | KW | BTUH | | | | KW | BTUH | | | |
| BAYHTR1405 +++ | 1/1 | 4.80 | 16400 | 20 | 30 | 30 | 3.60 | 12300 | 17.3 | 27 | 30 |
| BAYHTR1408 +++ | 1/1 | 7.68 | 26200 | 32 | 45 | 45 | 5.76 | 19700 | 27.7 | 39 | 40 |
| BAYHTR1410 +++ | 1/1 | 9.60 | 32800 | 40 | 55 | 60 | 7.20 | 24600 | 34.6 | 48 | 50 |
| BAYHTR3410 000 | 1/3 | 9.60 | 32800 | 34.6 | 43 | 45 | 7.20 | 24600 | 30.0 | 37 | 40 |
| BAYHTR1415 BRK | 2/1 | 15.36 | 52400 | 40/24 | 55*/30 | 60*/30 | 11.53 | 39300 | 34.6/20.8 | 48*/26 | 50*/30 |
| BAYHTR3415 000 | 1/3 | 15.36 | 52400 | 38.2 | 52 | 60 | 11.53 | 39300 | 33.1 | 45 | 45 |
| BAYHTR1419 BRK | 2/1 | 19.20 | 65500 | 32/48 | 45*/60 | 45*/60 | 14.42 | 49200 | 27.7/41.6 | 39*/52 | 40*/60 |
| BAYHTR1425 BRK | 3/1 | 24.96 | 85200 | 44/40/20 | 55/55*/25 | 60/60*/25 | 18.73 | 63900 | 38.1/34.6/17.3 | 48/48*/22 | 50/50*/25 |

NOTES:
* Circuit 1/Circuit 2 (Minimum Circuit Ampacity for Circuit 1 includes Blower Motor Amps)
+++ = 000, BRK, PDC 000 = pigtails, BRK = contains circuit breakers, PDC = contains pull disconnect
IMPORTANT: Any power supply and/or combination power supply, circuit or circuits must be wired and protected in accordance with local Electrical Codes.

# Electrical Data

## Unit Wiring Diagram



# Field Wiring

## 4TEP3F AIR HANDLERS WITH SINGLE SPEED COOLING, 2 STAGE HEAT

**⚠ 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.

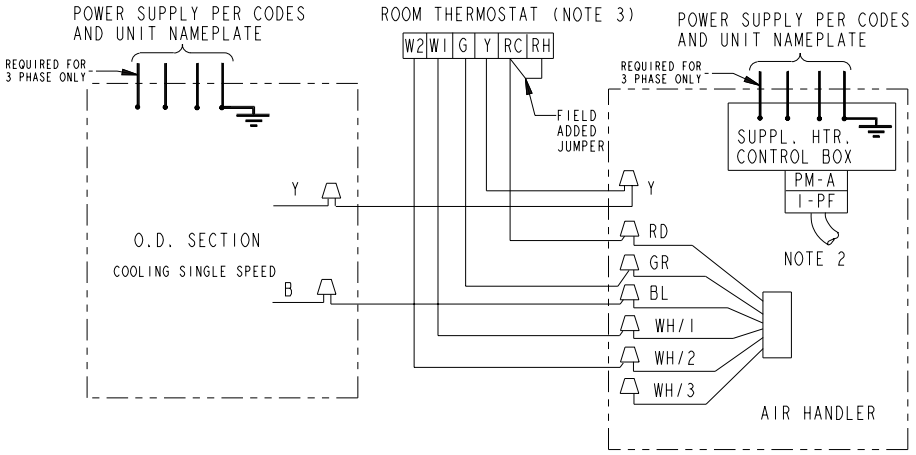
**⚠ CAUTION**

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.

ALL PHASES OF THIS INSTALLATION MUST COMPLY WITH NATIONAL, STATE AND LOCAL CODES.




NOTES:

1. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM CONDUCTORS.
2. WHEN HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG I-PM AND CONNECT I-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
3. SET "HA" PER CURRENT THRU W1, W2, SHOWN ON WIRING DIAGRAM.

From Dwg. 21B810092 Rev. 0

## 4TEP3F AIR HANDLERS WITH SINGLE SPEED COOLING UNIT, 1 STAGE HEAT

**⚠ 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.

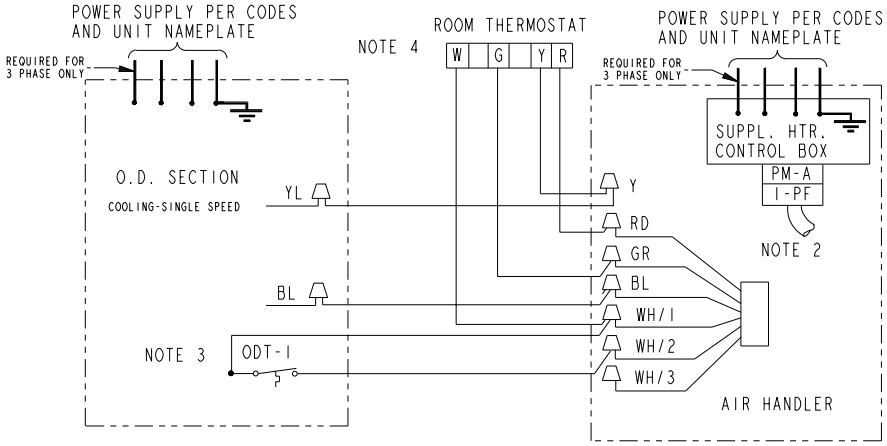
**⚠ CAUTION**

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.

ALL PHASES OF THIS INSTALLATION MUST COMPLY WITH NATIONAL, STATE AND LOCAL CODES.




NOTES:

1. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM CONDUCTORS.
2. WHEN HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG I-PM AND CONNECT I-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
3. IF OUTDOOR THERMOSTAT (ODT) IS NOT USED, CONNECT W1 TO W2 AND W3.
4. SEE HEATER WIRING DIAGRAM FOR HEATING ANTICIPATOR SETTING.

From Dwg. 21B810091 Rev. 1

# Field Wiring

## FIELD WIRING DIAGRAMS FOR AIR HANDLERS WITH HEAT PUMP

**⚠ 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.

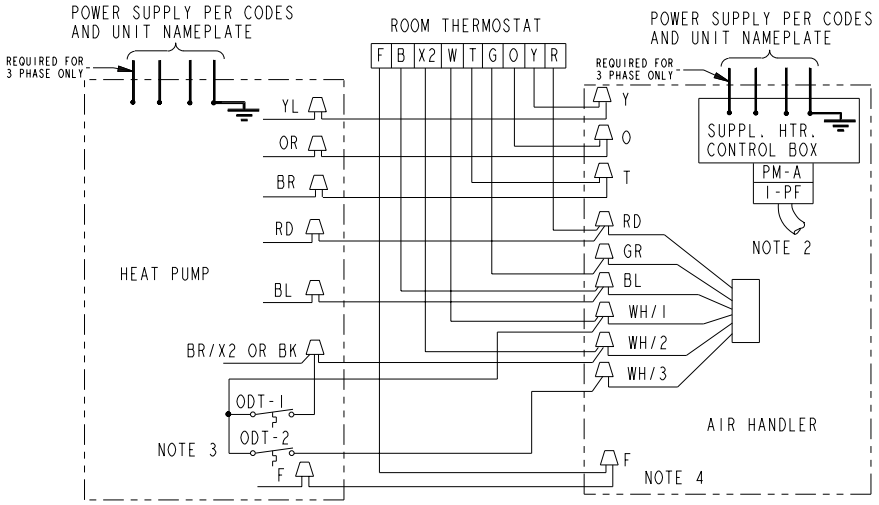
**⚠ CAUTION**

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.

ALL PHASES OF THIS INSTALLATION MUST COMPLY WITH NATIONAL, STATE AND LOCAL CODES.




NOTES:

1. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM CONDUCTORS.
2. WHEN HEATERS ARE USED, DISCARD POWER LEADS WITH POLARIZED PLUG 1-PM AND CONNECT 1-PF TO MATING PLUG IN THE HEATER CONTROL BOX AS SHOWN.
3. IF OUTDOOR THERMOSTAT (ODT) IS NOT USED, CONNECT W1 TO W2 AND W3.
4. CONNECT IN THIS MANNER IF OD UNIT HAS "F" CONNECTION.

From Dwg. 21B810093 Rev. 0

## AIR HANDLER SUBBASE

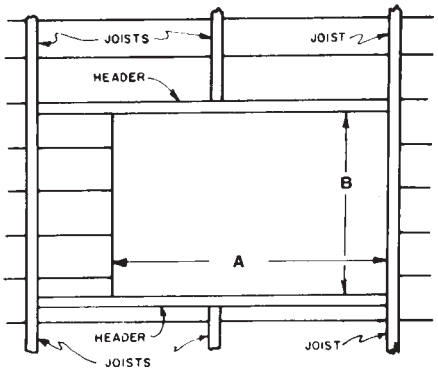



FIG.2

| FLOOR OPENING - SIZE | | |
|---|---|---|
| MODEL NO. | A | B |
| TAYBASE100 | 23-3/4 | 14-13/16 |
| TAYBASE101 | 21-3/4 | 14-13/16 |
| TAYBASE102 | 26-3/4 | 14-13/16 |

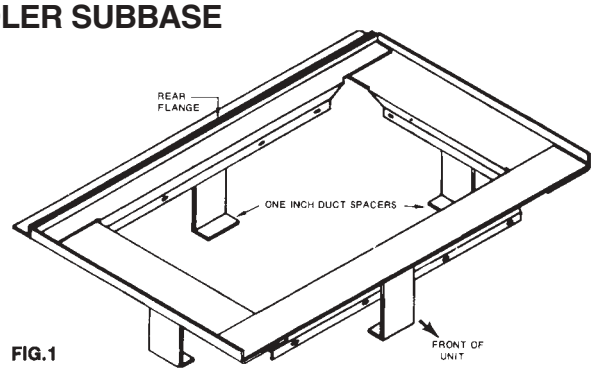



FIG.1

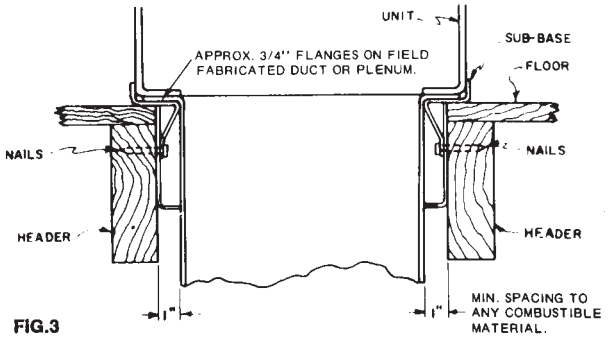



FIG.3



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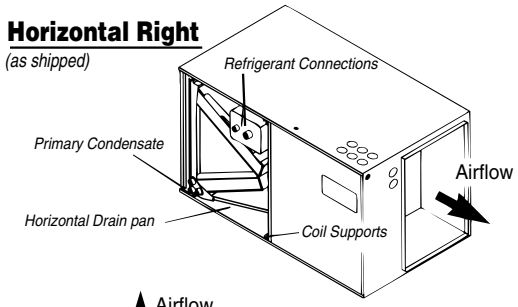
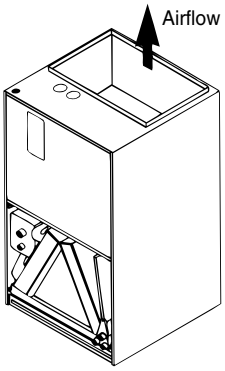
# 4TEP3F18 Through 63A Convertibility

## SIX (6) WAY CONVERTIBILITY

### One Unit - 4 Applications
(Conversions 1-4)

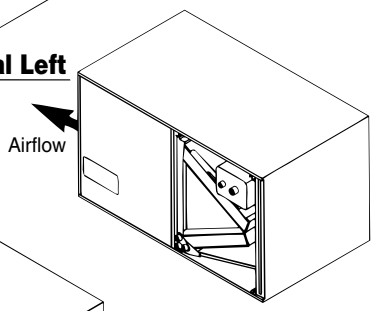
**Horizontal Right**
*(as shipped)*

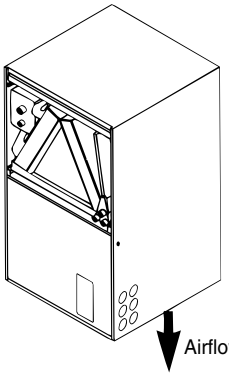



**Vertical Upflow**
*(as shipped)*
**One-step Conversion**
Stand unit on end

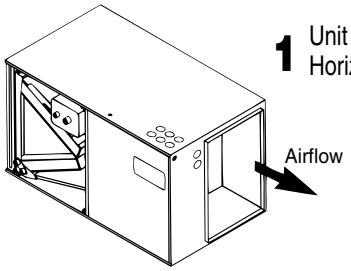
**Horizontal Left**
**Rotate Coil**



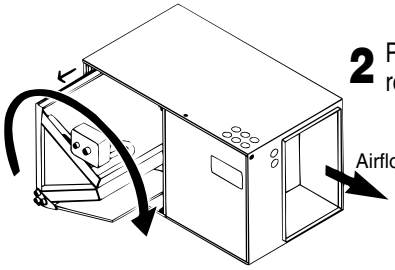




**Vertical Downflow**
**One-step Conversion**
from Horizontal left

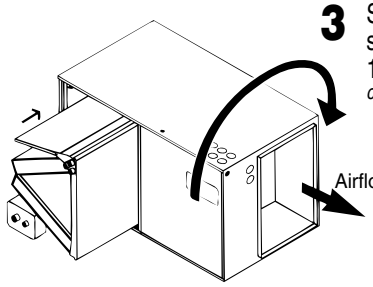
### Easy Conversion to Opposite side Access
(Conversions 5 & 6)



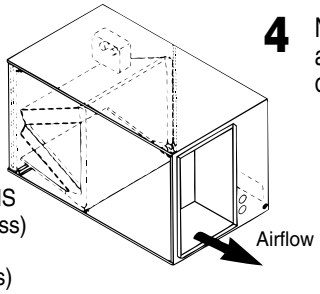

**1** Unit is shipped as Horizontal right




**2** Pull coil out and rotate the coil 180˚




**3** Slide coil back in on supports and roll unit 180˚ *(so primary condensate is down)*

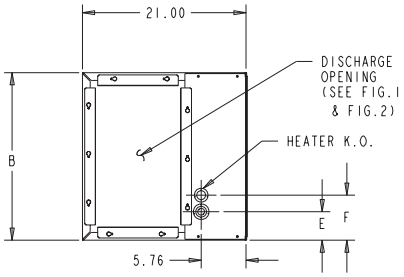



**4** Note connections and access are now on back side of unit

6 CONVERSION APPLICATIONS
1. Horizontal Right - (Front Access)
2. Vertical Upflow
3. Horizontal Left - (Front Access)
4. Vertical Downflow
5. Horizontal Right - (Rear Access)
6. Horizontal Left - (Rear Access)

# OUTLINE DRAWING FOR 4TEP3F18,24,30,36,42,48,63A

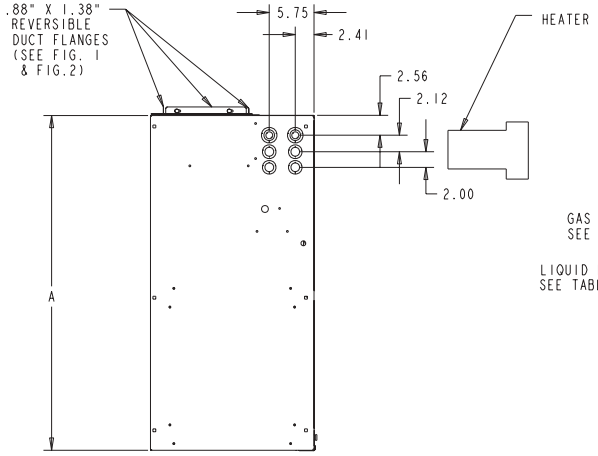
**(ALL DIMENSIONS ARE IN INCHES)**



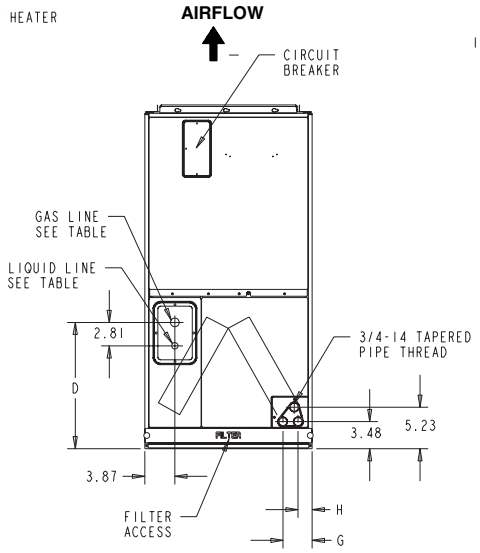

**TOP VIEW**

| MINIMUM UNIT CLEARANCE TABLE | | |
|---|---|---|
| | TO COMBUSTIBLE MATERIAL (REQUIRED) | SERVICE CLEARANCE (RECOMMENDED) |
| SIDES | 0" | 2"* |
| FRONT | 0" | 21" |
| BACK | 0" | 0" |
| INLET DUCT | 0" | 1" |
| OUTLET DUCT | 1"* | |

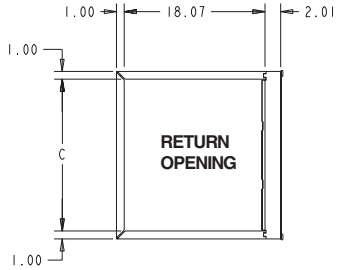
*1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED. EXCEPT MODELS BAYHTR1405,1408, AND 1410 ARE APPROVED FOR 0" PLENUM AND DUCT CLEARANCE IN THE UPFLOW CONFIGURATION ONLY.




**SIDE VIEW**




**VERTICAL UPFLOW**




**BOTTOM VIEW**

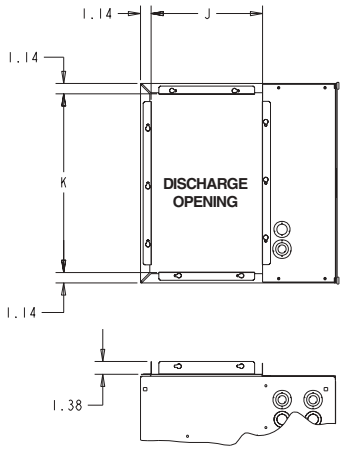



**FIGURE 1**

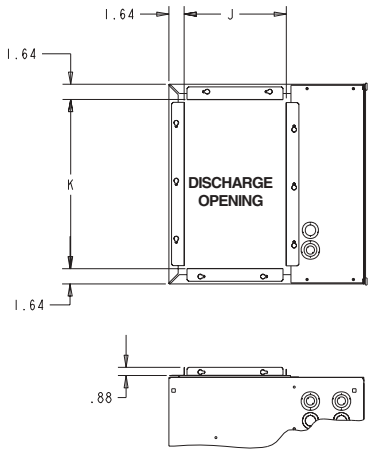



**FIGURE 2**

| | FIG. 1 | | FIG. 2 | |
|---|---|---|---|---|
| MODEL NO. | J | K | J | K |
| 4TEP3F18A<br>4TEP3F24A<br>4TEP3F30A<br>4TEP3F36A | 12.02 | 19.22 | 11.02 | 18.22 |
| 4TEP3F42A | | 21.22 | | 20.22 |
| 4TEP3F48A<br>4TEP3F63A | | 23.72 | | 22.72 |

| MODEL NO. | A | B | C | D | E | F | G | H | Flow Control | Gas Line BRAZE | Liq. Line BRAZE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4TEP3F18A | 43 | 21.50 | 19.50 | 15.57 | 3.65 | 5.77 | 3.62 | 1.89 | TXV/NB | 1/2 | 1/4 |
| 4TEP3F24A | | | | | | | | | | 5/8 | 5/16 |
| 4TEP3F30A | | | | | | | | | | 3/4 | |
| 4TEP3F36A | 45.00 | | | 17.57 | | | | | | 3/4 | 3/8 |
| 4TEP3F42A | 51.75 | 23.50 | 21.50 | 18.33 | 4.65 | 6.77 | 3.62 | | | | |
| 4TEP3F48A | 57.90 | 26 | 24 | 27.12 | 5.90 | 8.02 | 3.21 | 1.48 | | 7/8 | |
| 4TEP3F63A | 62.75 | | | | | | | | | | |

From Dwg. 21D800664 Rev. 1



Pub. No. 22-1718-01-0801 (EN)

# Mechanical Specification Options

**General**
Blower coil units shall be completely factory assembled including coil, condensate drain pan, fan, motor, filters and controls in an insulated casing that can be applied in horizontal or vertical configuration. The “F” model indicates an “Air-Tite” model with 4.2 “R” value insulation and additional sealing systems.

This new line of 4TEP3F Air Handlers provides exclusive compact size combined with simple 6-Way convertibility in sizes up to 5 Tons. The unit ships in the right-hand horizontal configuration and converts to vertical upflow just by standing the unit on end. No tools required. Simple coil rotation provides downflow and horizontal left applications.

The 6-Way convertibility provides you inventory benefits and service/installation flexibility. The simple conversion provides opposite side access for installation and service.

These Air Handlers enjoy the best reputation in the industry. Superior airflow, great sound level, reliability and performance are responsible for the industry leadership. We are not about to give up such top performance.

Units shall be UL listed.

**Casing**
Units shall have a rugged sheet metal and steel frame construction and shall be painted with an enamel finish. Casing shall be insulated and knockouts for electrical power and control wiring.

**Refrigerant Circuits**
The 4TEP units have a single refrigerant circuit. 4TEP3F18-63A refrigerant circuit shall be controlled by a factory-installed non-bleed thermal expansion valve.

**Coil**
Aluminum fin surface shall be mechanically bonded to 3/8 inch OD copper tubing. Coils are factory pressure and leak tested.

**Fan**
Forward curved, dynamically balanced and statically balanced with 3 speed direct drive shall be standard, fan motor bearing shall be permanently lubricated.

**Controls**
Low voltage terminal board, fan contactor, and plug in module for accessory electric heat control shall be included. 4TEP3F models also include check valves.

**Filters**
Filters shall be included as standard, One inch low velocity semi-permanent type (except 5 ton - washable filter).

**Accessories**
**Electric Heaters —** Shall be available in a wide range of capacities and voltages with various staging options, and plug-in control wiring. Heaters shall fit inside the internal compartment.


P.I. 08/01

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