

TECHNICAL SPECIFICATIONS

B6VMAX Series

Air Handler with TXV 13-16 SEER Residential System 18,000 - 60,000 Btuh (Heat Pump & Air Conditioner) R-410A Refrigerant

The B6VMAX Series of air handlers, when combined with our heat pump or air conditioner, offers a full line of quality, split system heating and cooling equipment.



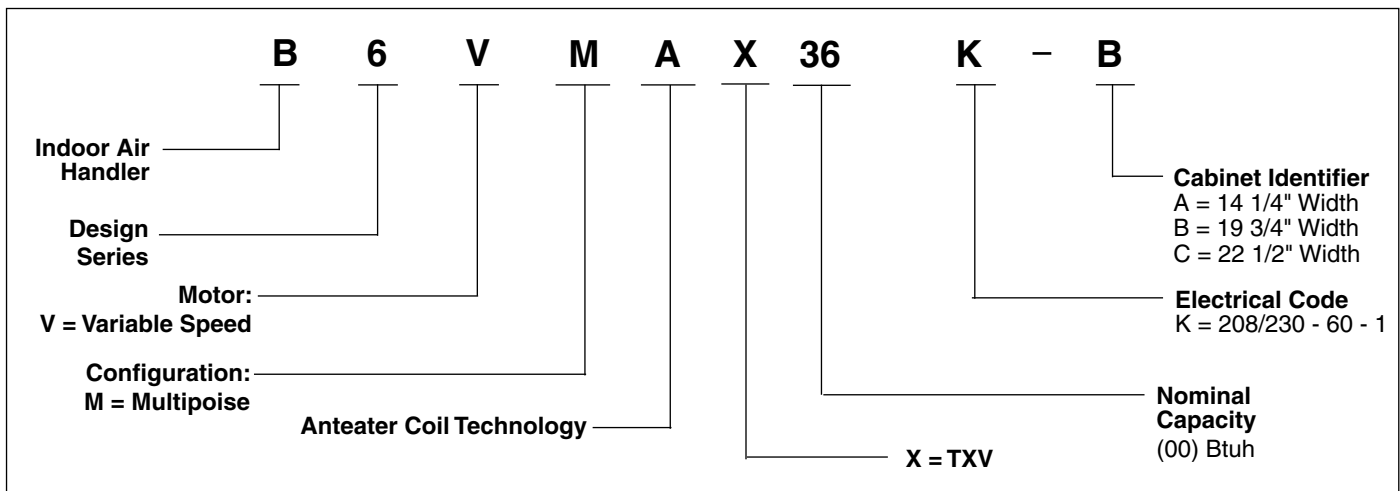
WARRANTY

- This product carries a 5-year all parts warranty. When installed with a matched outdoor unit, the air handler will carry the outdoor system warranty. See current warranty document or visit our consumer web site for warranty details.

FEATURES and BENEFITS

- **ECM Variable Speed Motor:** Programmed to provide 16 field-selectable cooling airflows to match any application.
- **Quiet Blower Operation:** Extra quiet and smooth blower on and off cycles.
- **Constant airflow:** Motor automatically adjusts to different static loads.
- **Selectable delay profiles:** Increases efficiency and comfort.
- **Reduced air stratification:** This results in improved air quality by optimizing humidity removal and filtration capabilities.
- **Multi-poised:** Can be used in horizontal, upflow, downflow and vertical applications.
- **Built in Filter Rack:** makes the air handler easy to service.
- **Plug-in Heater Kit:** Available in 5 kw through 30 kw (Not for use in 115 Volt units)
- **Circuit Board:** Incorporating blower time delay relay, low voltage terminal strip, and heat-strip sequencing.
- **Breaker Accessibility:** Breaker accessible from the front of the unit when heater is applied.
- **Plastic Drain Pan:** Provides corrosion resistance.
- **Durable Cabinet:** Galvanized steel with a polyurethane finish. The finish will endure 950 hours of salt spray and resist corrosion 50% better than comparable units.
- **Designed to meet the requirements 610.2.A.2:** Meets Florida building code requirements for air leakage.
- **Thermal Expansion Valve:** Factory installed externally equalized thermal expansion valve provides precise refrigerant control under varying load conditions.
- **Cabinet Insulation:** 1" insulation with an R-value of 4.2 contributes to quiet operation and prevents cabinet sweating in difficult applications.
- **Anteater Coil Technology:** Copper alloy with zinc additives to stop formicary corrosion.

MODEL IDENTIFICATION CODE



ACCESSORIES

| Accessory Kit Description | Cabinet Size | | | Part Number |
|---|--------------|-----|---|-------------|
| | A | B | C | |
| Downflow Adaptor Kit | X | | | 917342 |
| | | X | | 919321 |
| | | | X | 919322 |
| Single Circuit Adaptor for 2 Circuit Breakers | X | X | X | 913874 |
| Single Circuit Adaptor for 3 Circuit Breakers | n/a | n/a | X | 913556 |

240v Single-Phase Electric Heater Kits

| Nominal KW | Matched Units | | | | | | | | Part Number | |
|------------|---------------|-------|-------|-------|-------|-------|-------|-------|-----------------------|--------------------------|
| | 24K-A | 24K-B | 30K-A | 30K-B | 36K-B | 42K-B | 48K-C | 60K-C | With Circuit Breakers | Without Circuit Breakers |
| 5 | X | X | X | X | X | X | X | X | 904407 | 904406 |
| 8 | X | X | X | X | X | X | X | X | 904409 | 904408 |
| 10 | X | X | X | X | X | X | X | X | 904412 | 904411 |
| 15 | X | X | X | X | X | X | X | X | 904414 | n/a |
| 20 | n/a | X | n/a | X | X | X | X | X | 904416 | n/a |
| 25 | n/a | n/a | n/a | n/a | n/a | n/a | X | X | 921609 | n/a |
| 30 | n/a | n/a | n/a | n/a | n/a | n/a | X | X | 921610 | n/a |

240v Three-Phase Electric Heater Kits

| Nominal KW | Matched Units | | | | | | | | Part Number | |
|------------|---------------|-------|-------|-------|-------|-------|-------|-------|-----------------------|--------------------------|
| | 24K-A | 24K-B | 30K-A | 30K-B | 36K-B | 42K-B | 48K-C | 60K-C | With Circuit Breakers | Without Circuit Breakers |
| 9 | X | X | X | X | X | X | X | X | 904410 | n/a |
| 15 | X | X | X | X | X | X | X | X | 904415 | n/a |

SPECIFICATIONS

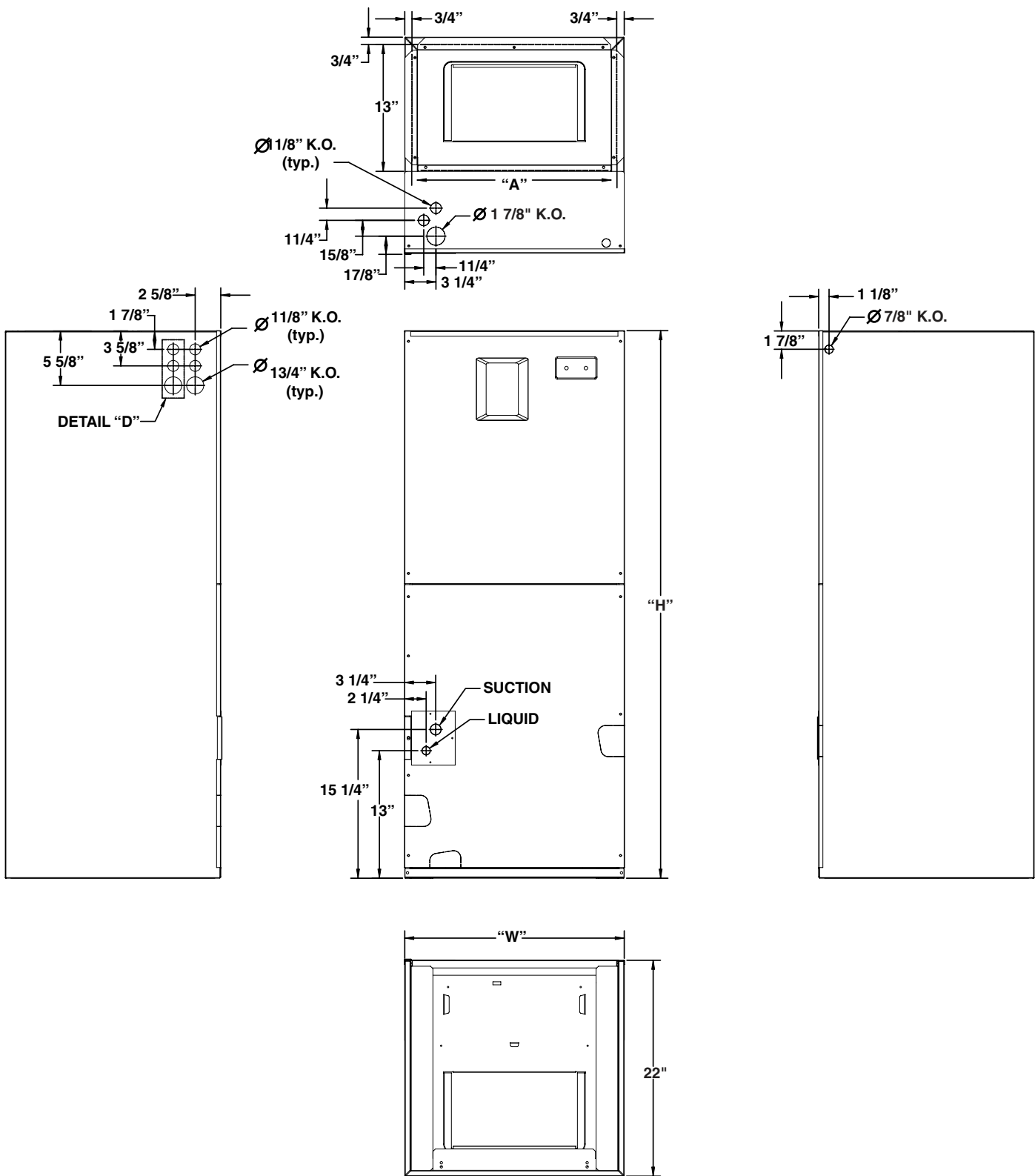
| Model B6VMAX | 24K-A | 24K-B | 30K-A | 30K-B | 36K-B | 42K-B | 48K-C | 60K-C |
|---------------------------------------|----------------|----------------|----------------|----------------|----------------|-------------|----------------|----------------|
| Refrigerant Flow Control | TXV | TXV | TXV | TXV | TXV | TXV | TXV | TXV |
| Maximum Available Auxiliary Heat (kw) | 15 | 20 | 15 | 20 | 20 | 20 | 30 | 30 |
| Nominal Blower Size (D X W) | 10 x 6 | 11 x 8 | 10 x 6 | 11 x 8 | 11 x 8 | 11 x 8 | 11 x 10 | 11 x 10 |
| Variable Speed Motor HP | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 |
| Filter Size | 12 x 20 x 1 | 18 x 20 x 1 | 12 x 20 x 1 | 18 x 20 x 1 | 18 x 20 x 1 | 18 x 20 x 1 | 20 x 20 x 1 | 20 x 20 x 1 |
| Approximate Shipping Weight (lbs.) | 91 | 120 | 91 | 111 | 140 | 140 | 170 | 170 |

NOTES: See current AHRI Directory for certified combinations and ratings.
www.ahridirectory.org

DIMENSIONS

| Models B6VMAX | Height | Width | Refrigerant Connections | | Filter Size | Supply Air Duct Dimensions |
|------------------|--------|--------|-------------------------|-------------|-------------|-------------------------------|
| | | | Suction Dia. | Liquid Dia. | | |
| 24K-A | 43 1/2 | 14 1/4 | 3/4 | 3/8 | 12 x 20 x 1 | 12 7/8 x 12 3/4 |
| 24K-B | 49 1/2 | 19 3/4 | 7/8 | 3/8 | 18 x 20 x 1 | 12 7/8 x 18 1/4 |
| 30K-A | 43 1/2 | 14 1/4 | 3/4 | 3/8 | 12 x 20 x 1 | 12 7/8 x 12 3/4 |
| 30K-B | 43 1/2 | 19 3/4 | 3/4 | 3/8 | 18 x 20 x 1 | 12 7/8 x 18 1/4 |
| 36K-B | 49 1/2 | 19 3/4 | 7/8 | 3/8 | 18 x 20 x 1 | 12 7/8 x 18 1/4 |
| 42K-B | 49 1/2 | 19 3/4 | 7/8 | 3/8 | 18 x 20 x 1 | 12 7/8 x 18 1/4 |
| 48K-C | 56 | 22 1/2 | 7/8 | 3/8 | 20 x 20 x 1 | 12 7/8 x 21 |
| 60K-C | 56 | 22 1/2 | 7/8 | 3/8 | 20 x 20 x 1 | 12 7/8 x 21 |

DIMENSIONS



ELECTRICAL DATA

| Cabinet | Capacity | Model Number H6HK- | Voltage 240 | | | | | | | | Voltage 208 | | | | | | | |
|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|-----------------------------|-----------|-----------|----------------|-------------------|-----------|-----------|----------------|-----------------------------|-----------|-----------|----------------|
| | | | Min. Circuit Amp. | | | | Maximum Over-current Rating | | | | Min. Circuit Amp. | | | | Maximum Over-current Rating | | | |
| | | | Circuit A | Circuit B | Circuit C | Single Circuit | Circuit A | Circuit B | Circuit C | Single Circuit | Circuit A | Circuit B | Circuit C | Single Circuit | Circuit A | Circuit B | Circuit C | Single Circuit |
| A | 24/30 | None | 4.5 | - | - | 4.5 | 15.0 | - | - | 15.0 | 4.8 | - | - | 4.8 | 15.0 | - | - | 15.0 |
| | | 005H-XX | 29.5 | - | - | 29.5 | 30.0 | - | - | 30.0 | 26.4 | - | - | 26.4 | 30.0 | - | - | 30.0 |
| | | 008H-XX | 44.1 | - | - | 44.1 | 45.0 | - | - | 45.0 | 39.1 | - | - | 39.1 | 40.0 | - | - | 40.0 |
| | | 010H-XX | 54.5 | - | - | 54.5 | 60.0 | - | - | 60.0 | 48.1 | - | - | 48.1 | 50.0 | - | - | 50.0 |
| | | 015H-XX | 54.5 | 25.0 | - | 68.1 | 60.0 | 30.0 | - | 80.0 | 48.1 | 21.7 | - | 69.8 | 50.0 | 25.0 | - | 70.0 |
| | | 009Q-XX | - | - | - | 31.6 | - | - | - | 35.0 | - | - | - | 28.2 | - | - | - | 30.0 |
| | | 015Q-XX | - | - | - | 47.8 | - | - | - | 50.0 | - | - | - | 42.3 | - | - | - | 45.0 |
| B | 24/30/36/42 | None | 4.5 | - | - | 4.5 | 15.0 | - | - | 15.0 | 4.8 | - | - | 4.8 | 15.0 | - | - | 15.0 |
| | | 005H-XX | 29.5 | - | - | 29.5 | 30.0 | - | - | 30.0 | 26.4 | - | - | 26.4 | 30.0 | - | - | 30.0 |
| | | 008H-XX | 44.1 | - | - | 44.1 | 45.0 | - | - | 45.0 | 39.1 | - | - | 39.1 | 40.0 | - | - | 40.0 |
| | | 010H-XX | 54.5 | - | - | 54.5 | 60.0 | - | - | 60.0 | 48.1 | - | - | 48.1 | 50.0 | - | - | 50.0 |
| | | 015H-XX | 54.5 | 25.0 | - | 68.1 | 60.0 | 30.0 | - | 80.0 | 48.1 | 21.7 | - | 69.8 | 50.0 | 25.0 | - | 70.0 |
| | | 020H-XX | 54.5 | 50.0 | - | 104.5 | 60.0 | 60.0 | - | 110.0 | 48.1 | 43.3 | - | 91.4 | 50.0 | 45.0 | - | 100.0 |
| | | 009Q-XX | - | - | - | 31.6 | - | - | - | 35.0 | - | - | - | 28.2 | - | - | - | 30.0 |
| | | 015Q-XX | - | - | - | 47.8 | - | - | - | 50.0 | - | - | - | 42.3 | - | - | - | 45.0 |
| C | 48/60 | None | 6.3 | - | - | 6.3 | 15.0 | - | - | 15.0 | 6.8 | - | - | 6.8 | 15.0 | - | - | 15.0 |
| | | 005H-XX | 31.3 | - | - | 31.3 | 35.0 | - | - | 35.0 | 28.4 | - | - | 28.4 | 30.0 | - | - | 30.0 |
| | | 008H-XX | 45.8 | - | - | 45.8 | 50.0 | - | - | 50.0 | 41.1 | - | - | 41.1 | 45.0 | - | - | 45.0 |
| | | 010H-XX | 56.3 | - | - | 56.3 | 60.0 | - | - | 60.0 | 50.1 | - | - | 50.1 | 60.0 | - | - | 60.0 |
| | | 015H-XX | 56.3 | 25.0 | - | 81.3 | 60.0 | 30.0 | - | 90.0 | 50.1 | 21.7 | - | 71.8 | 60.0 | 25.0 | - | 80.0 |
| | | 020H-XX | 56.3 | 50.0 | - | 106.3 | 60.0 | 60.0 | - | 110.0 | 50.1 | 43.3 | - | 93.4 | 60.0 | 45.0 | - | 100.0 |
| | | 025H-XX | 56.3 | 50.0 | 25.0 | 131.3 | 60.0 | 60.0 | 60.0 | 150.0 | 50.1 | 43.3 | 21.7 | 115.1 | 60.0 | 45.0 | 45.0 | 125.0 |
| | | 030H-XX | 56.3 | 50.0 | 50.0 | 156.3 | 60.0 | 60.0 | 60.0 | 175.0 | 50.1 | 43.3 | 43.3 | 136.8 | 60.0 | 45.0 | 45.0 | 150.0 |
| | | 009Q-XX | - | - | - | 33.3 | - | - | - | 35.0 | - | - | - | 30.2 | - | - | - | 35.0 |
| | | 015Q-XX | - | - | - | 49.6 | - | - | - | 50.0 | - | - | - | 44.3 | - | - | - | 45.0 |

AIRFLOW SELECTION FOR VARIABLE SPEED MODELS

| | Cooling Airflow | | | | | |
|---------------------|-------------------------------|------------------------|---|---|---|------------------|
| | HEAT Switch Setting A/B | COOL Switch Setting | | | | Airflow (CFM) |
| | | 1 | 2 | 3 | 4 | |
| B6VMAX A-cabinet | 0 | 0 | 0 | 0 | 0 | 525 |
| | 0 | 0 | 0 | 0 | 1 | 560 |
| | 0 | 0 | 0 | 1 | 0 | 600 |
| | 0 | 0 | 0 | 1 | 1 | 625 |
| | 0 | 0 | 1 | 0 | 0 | 700 |
| | 0 | 0 | 1 | 0 | 1 | 750 |
| | 0 | 0 | 1 | 1 | 0 | 800 |
| | 0 | 0 | 1 | 1 | 1 | 850 |
| | 0 | 1 | 0 | 0 | 0 | 875 |
| | 0 | 1 | 0 | 0 | 1 | 890 |
| | 0 | 1 | 0 | 1 | 0 | 930 |
| | 0 | 1 | 0 | 1 | 1 | 950 |
| | 0 | 1 | 1 | 0 | 0 | 1000 |
| | 0 | 1 | 1 | 0 | 1 | 1050 |
| | 0 | 1 | 1 | 1 | 0 | 1125 |
| | 0 | 1 | 1 | 1 | 1 | 1200 |

| Heating Airflow | | |
|-------------------------------|------------------------------|------------------|
| HEAT Switch Setting A/B | Heater Kit Installed (KW) | Airflow (CFM) |
| 0 | 0 | 600 |
| 0 | 5 | 800 |
| 0 | 8 | 900 |
| 0 | 10 | 1000 |
| 0 | 15 | 1300 |
| 0 | 20 | n/a |
| 0 | 25 | n/a |
| 0 | 30 | n/a |

| | Cooling Airflow | | | | | |
|---------------------|-------------------------------|------------------------|---|---|---|------------------|
| | HEAT Switch Setting A/B | COOL Switch Setting | | | | Airflow (CFM) |
| | | 1 | 2 | 3 | 4 | |
| B6VMAX B-cabinet | 1 | 0 | 0 | 0 | 0 | 525 |
| | 1 | 0 | 0 | 0 | 1 | 560 |
| | 1 | 0 | 0 | 1 | 0 | 600 |
| | 1 | 0 | 0 | 1 | 1 | 650 |
| | 1 | 0 | 1 | 0 | 0 | 700 |
| | 1 | 0 | 1 | 0 | 1 | 750 |
| | 1 | 0 | 1 | 1 | 0 | 800 |
| | 1 | 0 | 1 | 1 | 1 | 850 |
| | 1 | 1 | 0 | 0 | 0 | 875 |
| | 1 | 1 | 0 | 0 | 1 | 950 |
| | 1 | 1 | 0 | 1 | 0 | 1050 |
| | 1 | 1 | 0 | 1 | 1 | 1150 |
| | 1 | 1 | 1 | 0 | 0 | 1250 |
| | 1 | 1 | 1 | 0 | 1 | 1350 |
| | 1 | 1 | 1 | 1 | 0 | 1400 |
| | 1 | 1 | 1 | 1 | 1 | 1600 |

| Heating Airflow | | |
|-------------------------------|------------------------------|------------------|
| HEAT Switch Setting A/B | Heater Kit Installed (KW) | Airflow (CFM) |
| 1 | 0 | 700 |
| 1 | 5 | 900 |
| 1 | 8 | 1000 |
| 1 | 10 | 1100 |
| 1 | 15 | 1300 |
| 1 | 20 | 1500 |
| 1 | 25 | n/a |
| 1 | 30 | n/a |

| | Cooling Airflow | | | | | |
|---------------------|-------------------------------|------------------------|---|---|---|------------------|
| | HEAT Switch Setting A/B | COOL Switch Setting | | | | Airflow (CFM) |
| | | 1 | 2 | 3 | 4 | |
| B6VMAX C-cabinet | * | 0 | 0 | 0 | 0 | 1100 |
| | * | 0 | 0 | 0 | 1 | 1200 |
| | * | 0 | 0 | 1 | 0 | 1250 |
| | * | 0 | 0 | 1 | 1 | 1300 |
| | * | 0 | 1 | 0 | 0 | 1350 |
| | * | 0 | 1 | 0 | 1 | 1400 |
| | * | 0 | 1 | 1 | 0 | 1450 |
| | * | 0 | 1 | 1 | 1 | 1500 |
| | * | 1 | 0 | 0 | 0 | 1550 |
| | * | 1 | 0 | 0 | 1 | 1600 |
| | * | 1 | 0 | 1 | 0 | 1650 |
| | * | 1 | 0 | 1 | 1 | 1700 |
| | * | 1 | 1 | 0 | 0 | 1750 |
| | * | 1 | 1 | 0 | 1 | 1800 |
| | * | 1 | 1 | 1 | 0 | 1900 |
| | * | 1 | 1 | 1 | 1 | 2000 |

| Heating Airflow | | |
|-------------------------------|------------------------------|------------------|
| HEAT Switch Setting A/B | Heater Kit Installed (KW) | Airflow (CFM) |
| * | 0 | 800 |
| * | 5 | 1000 |
| * | 8 | 1100 |
| * | 10 | 1200 |
| * | 15 | 1400 |
| * | 20 | 1600 |
| * | 25 | 1800 |
| * | 30 | 2000 |

NOTES:

Airflow values listed are for 240V operation. For 208V operation, multiply A & B cabinet values by .95; for C-cabinet values multiply by .90

* = either 0 or 1

0 = OFF, 1 = ON

COOLING AIRFLOW SETTINGS

| A-CABINET | | | | | |
|-----------|--------------------------------------|---|---|---|---|
| CFM | SWITCH SETTINGS (1 = ON, 0 = OFF) | | | | NOMINAL CAPACITY |
| | 1 | 2 | 3 | 4 | |
| 525 | 0 | 0 | 0 | 0 | <div>1.5 TON</div> <div>2 TON</div> <div>2.5 TON</div> <div>3 TON</div> |
| 560 | 0 | 0 | 0 | 1 | |
| 600 | 0 | 0 | 1 | 0 | |
| 625 | 0 | 0 | 1 | 1 | |
| 700 | 0 | 1 | 0 | 0 | |
| 750 | 0 | 1 | 0 | 1 | |
| 800 | 0 | 1 | 1 | 0 | |
| 850 | 0 | 1 | 1 | 1 | |
| 875 | 1 | 0 | 0 | 0 | |
| 890 | 1 | 0 | 0 | 1 | |
| 930 | 1 | 0 | 1 | 0 | |
| 950 | 1 | 0 | 1 | 1 | |
| 1000 | 1 | 1 | 0 | 0 | |
| 1050 | 1 | 1 | 0 | 1 | |
| 1125 | 1 | 1 | 1 | 0 | |
| 1200 | 1 | 1 | 1 | 1 | |

| B-CABINET | | | | | |
|-----------|--------------------------------------|---|---|---|---|
| CFM | SWITCH SETTINGS (1 = ON, 0 = OFF) | | | | NOMINAL CAPACITY |
| | 1 | 2 | 3 | 4 | |
| 525 | 0 | 0 | 0 | 0 | <div>1.5 TON</div> <div>2 TON</div> <div>2.5 TON</div> <div>3 TON</div> <div>3.5 TON</div> <div>4 TON</div> |
| 560 | 0 | 0 | 0 | 1 | |
| 600 | 0 | 0 | 1 | 0 | |
| 650 | 0 | 0 | 1 | 1 | |
| 700 | 0 | 1 | 0 | 0 | |
| 750 | 0 | 1 | 0 | 1 | |
| 800 | 0 | 1 | 1 | 0 | |
| 850 | 0 | 1 | 1 | 1 | |
| 875 | 1 | 0 | 0 | 0 | |
| 950 | 1 | 0 | 0 | 1 | |
| 1050 | 1 | 0 | 1 | 0 | |
| 1150 | 1 | 0 | 1 | 1 | |
| 1250 | 1 | 1 | 0 | 0 | |
| 1350 | 1 | 1 | 0 | 1 | |
| 1400 | 1 | 1 | 1 | 0 | |
| 1600 | 1 | 1 | 1 | 1 | |

| C-CABINET | | | | | |
|-----------|--------------------------------------|---|---|---|---|
| CFM | SWITCH SETTINGS (1 = ON, 0 = OFF) | | | | NOMINAL CAPACITY |
| | 1 | 2 | 3 | 4 | |
| 1100 | 0 | 0 | 0 | 0 | <div>3 TON</div> <div>3.5 TON</div> <div>4 TON</div> <div>5 TON</div> |
| 1200 | 0 | 0 | 0 | 1 | |
| 1250 | 0 | 0 | 1 | 0 | |
| 1300 | 0 | 0 | 1 | 1 | |
| 1350 | 0 | 1 | 0 | 0 | |
| 1400 | 0 | 1 | 0 | 1 | |
| 1450 | 0 | 1 | 1 | 0 | |
| 1500 | 0 | 1 | 1 | 1 | |
| 1550 | 1 | 0 | 0 | 0 | |
| 1600 | 1 | 0 | 0 | 1 | |
| 1650 | 1 | 0 | 1 | 0 | |
| 1700 | 1 | 0 | 1 | 1 | |
| 1750 | 1 | 1 | 0 | 0 | |
| 1800 | 1 | 1 | 0 | 1 | |
| 1900 | 1 | 1 | 1 | 0 | |
| 2000 | 1 | 1 | 1 | 1 | |



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first five years of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

NORDYNE
COMPLETE COMFORT. GENUINE VALUE.

8000 Phoenix Parkway | O'Fallon, MO 63368-3827

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