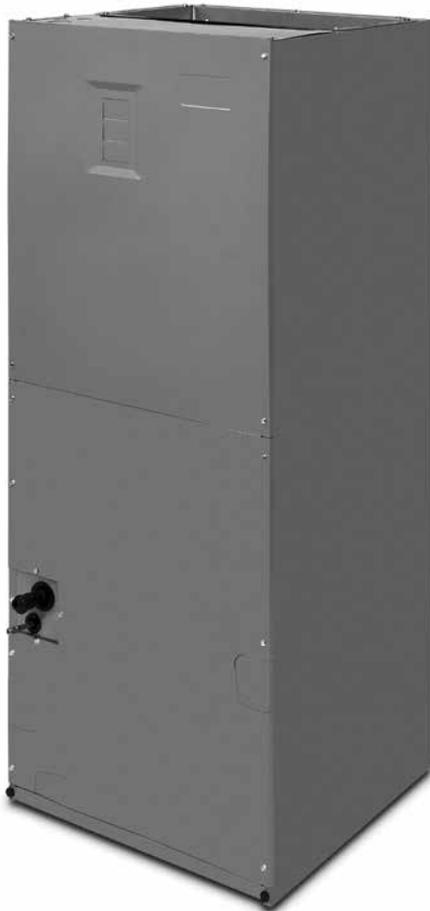


TECHNICAL SPECIFICATIONS

B6VMMX Series

Air Handler with TXV 18,000 - 60,000 Btuh (Heat Pump & Air Conditioner)

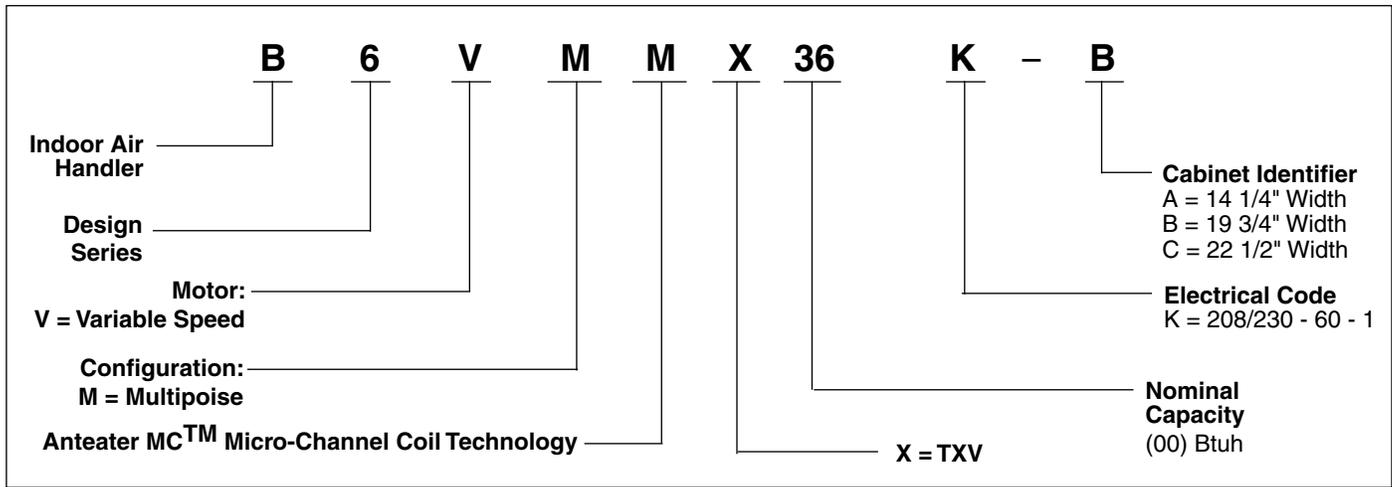
The B6VMMX Series of air handlers, when combined with our heat pump or air conditioner, offers a full line of quality, split system heating and cooling equipment.



FEATURES and BENEFITS

- **Energy Efficient Variable Speed ECM Motor:** Advanced technology provides 16 field-selectable cooling airflows and automatically sets heating airflows based on the amount of installed heat.
- **Quiet Blower Operation:** Extra quiet and smooth blower on and off cycles.
- **Constant airflow:** Motor automatically adjusts to different static loads.
- **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.
- **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 per ASTM Std. B117.
- **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.
- **Aluminum Coil Technology:** All aluminum coil provides high corrosion resistance.

MODEL IDENTIFICATION CODE



ACCESSORIES

| Accessory Kit Description | Cabinet Size | | | Order Number |
|---|--------------|-----|---|--------------|
| | A | B | C | |
| Down-flow 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 |
| Baffle Drip Guard 3" | | X | | 922125 |
| Baffle Drip Guard 4" | | | X | 922126 |

240V Single-Phase Heater Kit Application

| Nominal KW | Matched Units | | | | | | | | Order Number | |
|------------|---------------|------------|--------|--------|--------|--------|--------|--------|-----------------------|--------------------------|
| | *24K-A | *30/*36K-A | *24K-B | *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 | 922521 | 922520 |
| 8 | X | X | X | X | X | X | X | X | 922523 | 922522 |
| 10 | X | X | X | X | X | X | X | X | 922526 | 922525 |
| 15 | n/a | X | n/a | X | X | X | X | X | 922527 | n/a |
| 20 | n/a | n/a | n/a | X | X | X | X | X | 922529 | n/a |
| 25 | n/a | n/a | n/a | n/a | n/a | n/a | X | X | 922530 | n/a |
| 30 | n/a | n/a | n/a | n/a | n/a | n/a | X | X | 922532 | n/a |

240V Three-Phase Heater Kit Application

| Nominal KW | Matched Units | | | | | | | | Order Number | |
|------------|---------------|------------|--------|--------|--------|--------|--------|--------|-----------------------|--------------------------|
| | *24K-A | *30/*36K-A | *24K-B | *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 | 922524 | n/a |
| 15 | n/a | X | n/a | X | X | X | X | X | 922528 | n/a |

SPECIFICATIONS

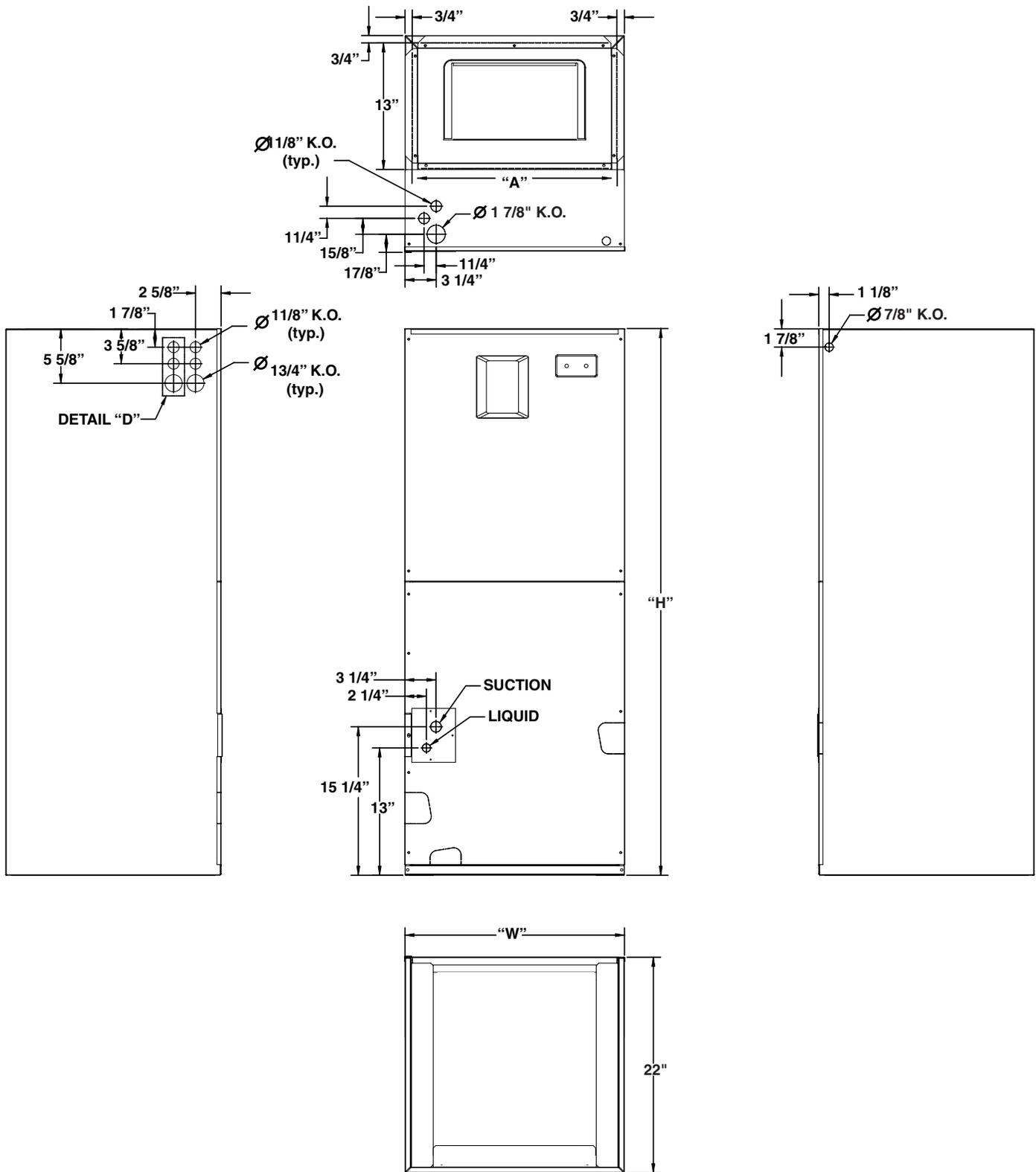
| Model B6VMMX | 24K-A | 24K-B | 30K-A | 30K-B | 36K-B | 42K-B | 48K-C | 60K-C |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Refrigerant Flow Control | TXV |
| Maximum Available Auxiliary Heat (kw) | 15 | 20 | 15 | 20 | 20 | 20 | 30 | 30 |
| Motor HP | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 3/4 |
| Approximate Shipping Weight (lbs.) | 93 | 105 | 95 | 107 | 110 | 117 | 140 | 140 |

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

DIMENSIONS

| Models B6VMMX | 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 | 43 1/2 | 19 3/4 | 3/4 | 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 H8HK- | Voltage 240 | | | | | | | | Voltage 208 | | | | | | | |
|---------|-----------------|--------------------|-------------------|-----------|-----------|----------------|--------------------------|-----------|-----------|----------------|-------------------|-----------|-----------|----------------|--------------------------|-----------|-----------|----------------|
| | | | Min. Circuit Amp. | | | | Max. Over-current Rating | | | | Min. Circuit Amp. | | | | Max. 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 | 50.0 | 29.5 | - | 79.5 | 60.0 | 30.0 | - | 80.0 | 43.3 | 26.4 | - | 69.8 | 45.0 | 30.0 | - | 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 | 50.0 | 29.5 | - | 79.5 | 60.0 | 30.0 | - | 80.0 | 43.3 | 26.4 | - | 69.8 | 45.0 | 30.0 | - | 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 | 50.0 | 31.3 | - | 81.3 | 60.0 | 35.0 | - | 90.0 | 43.3 | 28.4 | - | 71.8 | 45.0 | 30.0 | - | 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 |
| | | 024H-XX | 50.0 | 50.0 | 31.3 | 131.3 | 60.0 | 60.0 | 35.0 | 150.0 | 43.3 | 43.3 | 28.4 | 115.1 | 45.0 | 45.0 | .0 | 125.0 |
| | | 029H-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 |

HEATING AIRFLOW SETTINGS FOR VARIABLE SPEED MODELS

| Heating Airflow - A-Cabinet | | |
|---------------------------------------|------------------------------|------------------|
| A/B Switch Setting 0 = OFF, 1 = ON | Heater Kit Installed (KW) | Airflow (CFM) |
| 0 | 0 | 600 |
| 0 | 5 | 800 |
| 0 | 8 | 1000 |
| 0 | 10 | 1000 |
| 0 | 15 | 1300 |
| 0 | 20 | n/a |
| 0 | 25 | n/a |
| 0 | 30 | n/a |

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

| Heating Airflow - C-Cabinet | | |
|---------------------------------------|------------------------------|------------------|
| A/B Switch Setting 0 = OFF, 1 = ON | Heater Kit Installed (KW) | Airflow (CFM) |
| * | 0 | 800 |
| * | 5 | 1000 |
| * | 8 | 1200 |
| * | 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
- When matched with two-stage outdoor units the airflow on low (Y1 or W1) input only will be 70% of the values shown in this table.

COOLING AIRFLOW SETTINGS FOR VARIABLE SPEED MODELS

| A-CABINET | | | | | | |
|-----------|--|--------------------------------------|---|---|---|---------------------|
| CFM | A/B Switch Setting 0 = OFF, 1 = ON | SWITCH SETTINGS (1 = ON, 0 = OFF) | | | | NOMINAL CAPACITY |
| | | 5 | 6 | 7 | 8 | |
| 525 | 0 | 0 | 0 | 0 | 0 | 1.5 TON |
| 560 | 0 | 0 | 0 | 0 | 1 | |
| 600 | 0 | 0 | 0 | 1 | 0 | |
| 625 | 0 | 0 | 0 | 1 | 1 | |
| 700 | 0 | 0 | 1 | 0 | 0 | |
| 750 | 0 | 0 | 1 | 0 | 1 | |
| 800 | 0 | 0 | 1 | 1 | 0 | |
| 850 | 0 | 0 | 1 | 1 | 1 | |
| 875 | 0 | 1 | 0 | 0 | 0 | |
| 890 | 0 | 1 | 0 | 0 | 1 | |
| 930 | 0 | 1 | 0 | 1 | 0 | |
| 950 | 0 | 1 | 0 | 1 | 1 | |
| 1000 | 0 | 1 | 1 | 0 | 0 | |
| 1050 | 0 | 1 | 1 | 0 | 1 | |
| 1125 | 0 | 1 | 1 | 1 | 0 | |
| 1200 | 0 | 1 | 1 | 1 | 1 | |

| B-CABINET | | | | | | |
|-----------|--|--------------------------------------|---|---|---|---------------------|
| CFM | A/B Switch Setting 0 = OFF, 1 = ON | SWITCH SETTINGS (1 = ON, 0 = OFF) | | | | NOMINAL CAPACITY |
| | | 5 | 6 | 7 | 8 | |
| 525 | 1 | 0 | 0 | 0 | 0 | 1.5 TON |
| 560 | 1 | 0 | 0 | 0 | 1 | |
| 600 | 1 | 0 | 0 | 1 | 0 | |
| 650 | 1 | 0 | 0 | 1 | 1 | |
| 700 | 1 | 0 | 1 | 0 | 0 | |
| 750 | 1 | 0 | 1 | 0 | 1 | |
| 800 | 1 | 0 | 1 | 1 | 0 | |
| 850 | 1 | 0 | 1 | 1 | 1 | |
| 875 | 1 | 1 | 0 | 0 | 0 | |
| 950 | 1 | 1 | 0 | 0 | 1 | |
| 1050 | 1 | 1 | 0 | 1 | 0 | |
| 1150 | 1 | 1 | 0 | 1 | 1 | |
| 1250 | 1 | 1 | 1 | 0 | 0 | |
| 1350 | 1 | 1 | 1 | 0 | 1 | |
| 1400 | 1 | 1 | 1 | 1 | 0 | |
| 1600 | 1 | 1 | 1 | 1 | 1 | |

| C-CABINET | | | | | | |
|-----------|--|--------------------------------------|---|---|---|---------------------|
| CFM | A/B Switch Setting 0 = OFF, 1 = ON | SWITCH SETTINGS (1 = ON, 0 = OFF) | | | | NOMICAL CAPACITY |
| | | 5 | 6 | 7 | 8 | |
| 1100 | * | 0 | 0 | 0 | 0 | 3 TON |
| 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

Nortek Global HVAC, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

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

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