

EVM4X

Evaporator Coil with Power-V Technology Multipoise – Cooling and Heating

To be Used with Outdoor HP Piston Heating Metering Device Only*

*Refer to AHRI Directory for Approved Rated Combinations.



Product Data

NOTE: * EVM4X V-Coils can only operate with OD Heat Pump installations that have a Piston Heating Metering device. Use of the V-Coil for OD HP installations that do not have a Piston Metering Device are not an approved installation.

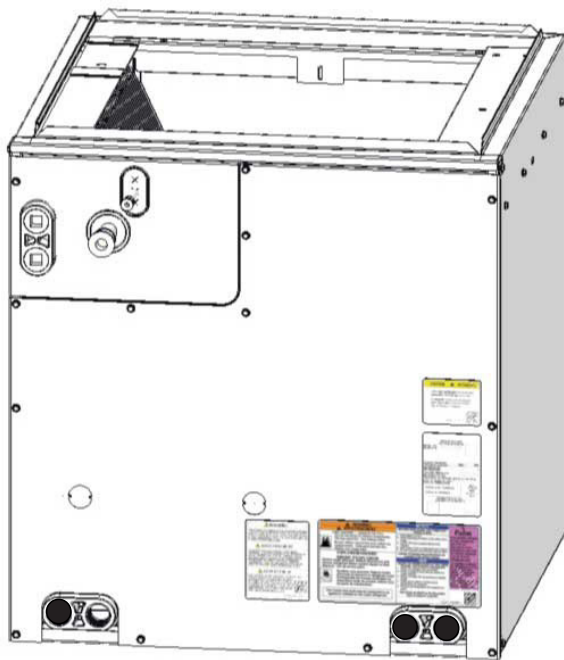


Fig. 1 – Typical Coil

A221165B



A200449AICP

This evaporator coil incorporates proven standards for reliable system operation and performance throughout the life of this product. These quality coils, manufactured and installed as part of a total comfort system, provide AHRI-rated performance ratings and are additionally listed with UL and c-UL.

Available for use in R-410A refrigerant only, it is a cased V-coil that is housed in a durable, 24-gauge, pre-painted cool gray cabinet. The fully insulated cabinet (foil faced with R-2.1 insulation) provides for quiet efficient operation of the evaporator coil.

DESIGN FEATURES

- Designed with performance in mind, this new evaporator coil offers lower pressure drops to enhance system performance and airflow characteristics.
- All coils have refrigerant-specific, factory-installed TXVs. All models are factory pre-set to approximately 10° of superheat at the suction service valve.
- The corrosion-resistant drain pan is designed of a “Polybutylene terephthalate” material (PBT) that offers unsurpassed pan strength. It is engineered with proper slope to help ensure water drainage, improved moisture removal, and home comfort.
- The drain pan is supplied with three water-tight drain plugs to prevent leakage from unused drain connections.
- Provided with industry proven sweat connections for leak-free operation to maintain system reliability. The location of the lineset connections allows for removal of the access door for easy cleaning/servicing of the coils, as well as easy access to the TXV. All models come from the factory with enough length of straight tube—once the pipe swages are cut off—to accommodate braze-less compression fittings.
- Meets or exceeds burst pressure of 1900 psi, which is at least three times the maximum operating pressure it would see in actual cooling or heating applications.
- This cased coil comes with factory-installed UV knockouts for quick and easy installation of UV lights.
- Comes with a “no delta plate” for easy, quick access to both sides of the coil for service and cleaning. Also, after the door is removed and refrigerant lines disconnected, the coil is removable from the front of the unit without the use of any tools.

LIMITED WARRANTY

- Default 5-year parts limited warranty:
 - 10-year parts limited warranty with timely registration*.Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
- * Applies to original purchaser/homeowner and not available to subsequent owners, except in jurisdictions where laws dictate otherwise.

See Warranty certificate for complete details and restrictions.

MODEL NUMBER NOMENCLATURE

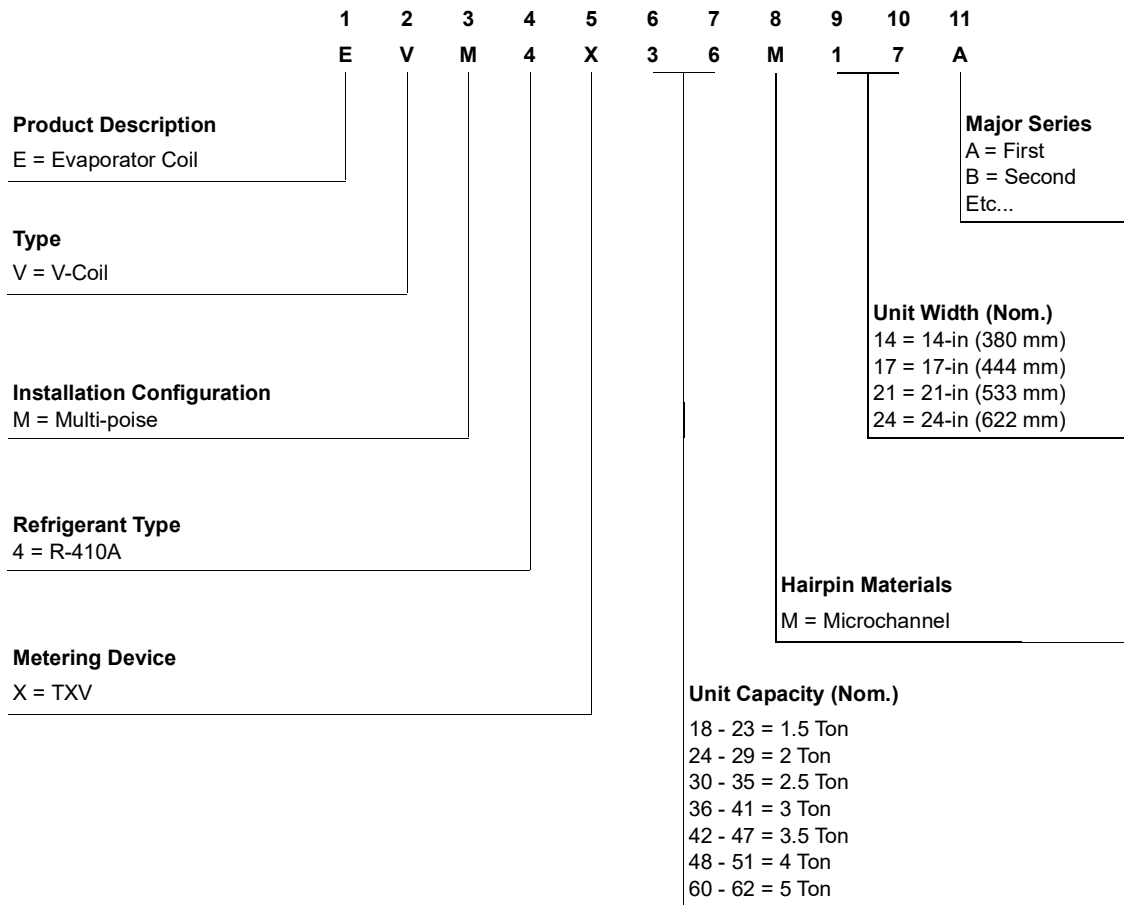


Table 1 – Coil Connections / Orientations

| Model | Nom. Tons | Line Set Connection Tube Size, in. | | Flush Fit to Furnace Width, in. (mm) | Fits Next Smaller Furnace Width | | | 90° Rotation to Furnace (4" Min. Transition Required) | 180° Rotation to Furnace |
|-------------|-----------|------------------------------------|--------|--------------------------------------|---------------------------------|-------------|--------------|---|--------------------------|
| | | Suction | Liquid | | Equal Overhang | Offset Left | Offset Right | | |
| EVM4X24M14A | 2 | 3/4 | 3/8 | 14-3/16 (360) | | | | ALL | |
| EVM4X24M17A | 2 | 3/4 | 3/8 | 17-1/2 (445) | X | X | X | | |
| EVM4X25M17A | 2 | 3/4 | 3/8 | 17-1/2 (445) | X | X | X | | |
| EVM4X30M17A | 2.5 | 3/4 | 3/8 | 17-1/2 (445) | X | X | X | | |
| EVM4X31M17A | 2.5 | 3/4 | 3/8 | 17-1/2 (445) | X | X | X | | |
| EVM4X32M17A | 2.5 | 3/4 | 3/8 | 17-1/2 (445) | X | X | X | | |
| EVM4X36M17A | 3 | 3/4 | 3/8 | 17-1/2 (445) | X | X | X | | |
| EVM4X42M21A | 3.5 | 7/8 | 3/8 | 21 (533) | X | X | X | | |
| EVM4X43M21A | 3.5 | 7/8 | 3/8 | 21 (533) | X | X | X | | |
| EVM4X44M21A | 3.5 | 7/8 | 3/8 | 21 (533) | X | X | X | | |
| EVM4X48M21A | 4 | 7/8 | 3/8 | 21 (533) | X | X | X | | |
| EVM4X49M21A | 4 | 7/8 | 3/8 | 21 (533) | X | X | X | | |
| EVM4X60M21A | 5 | 7/8 | 3/8 | 21 (533) | X | X | X | | |
| EVM4X60M24A | 5 | 7/8 | 3/8 | 24-1/2 (622) | X | X | X | | |
| EVM4X61M24A | 5 | 7/8 | 3/8 | 24-1/2 (622) | X | X | X | | |

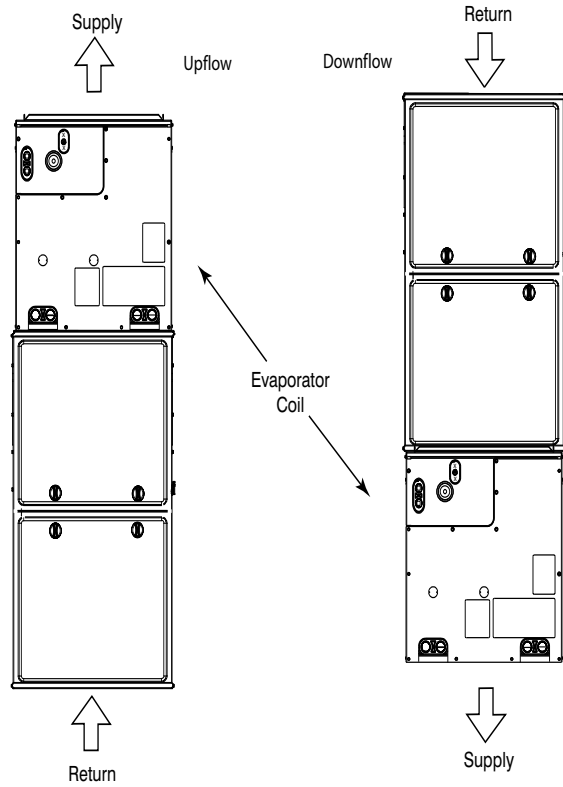


Fig. 2 – Typical Flush-Fit Coil Installation on Furnace (recommended) A221121A

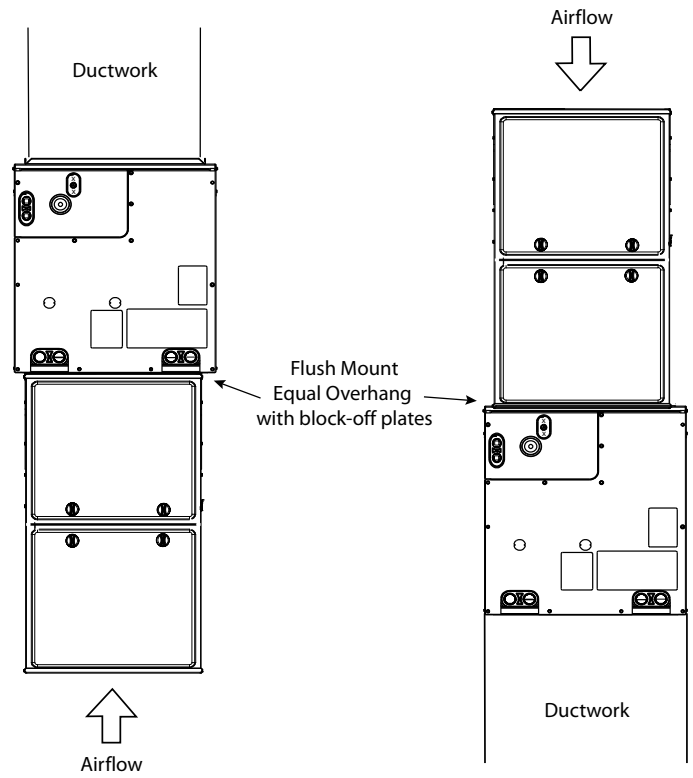


Fig. 4 – Smaller Furnace, Equal Overhang, Flush Mount (not recommended) A221123A

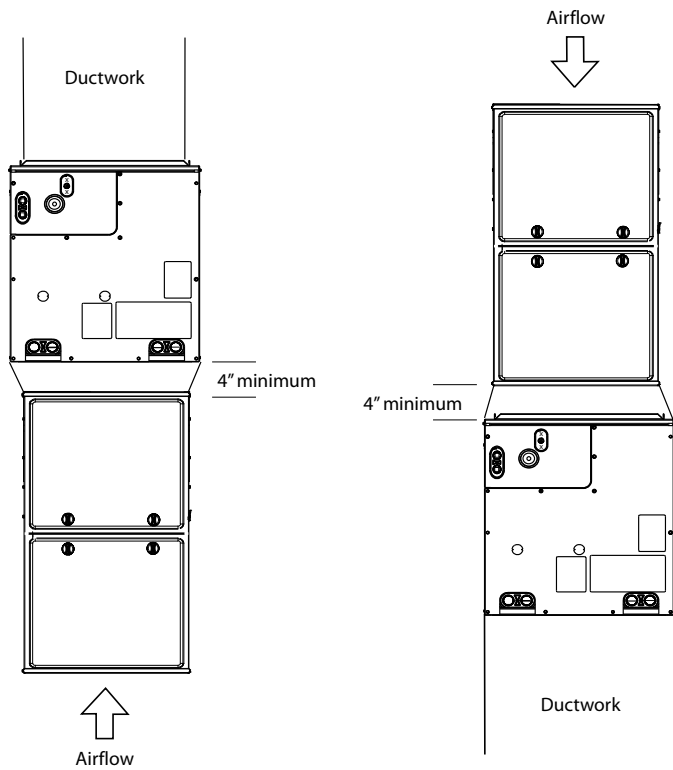


Fig. 3 – Adapter(s) Installation When Coil is Larger than Furnace (recommended) A221122A

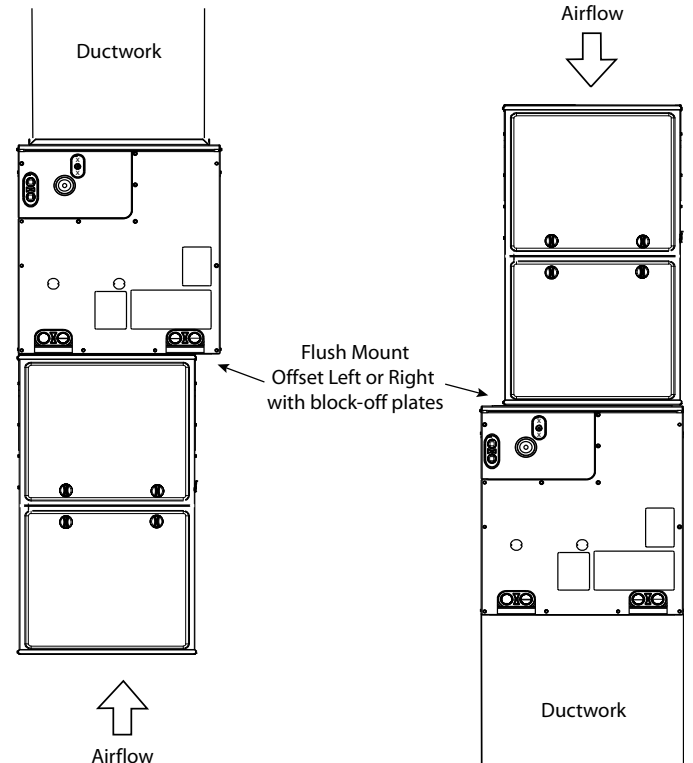
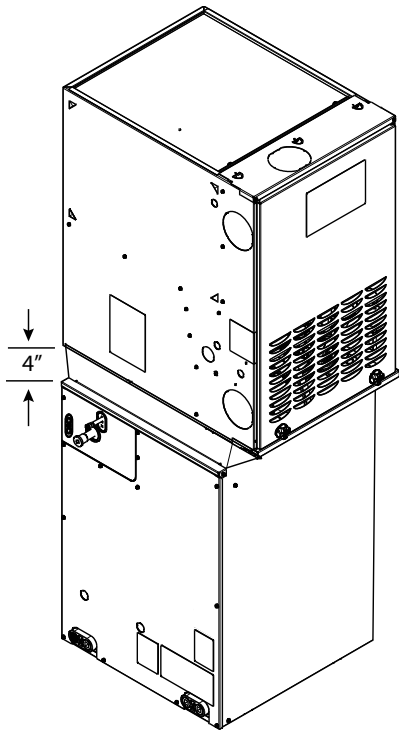
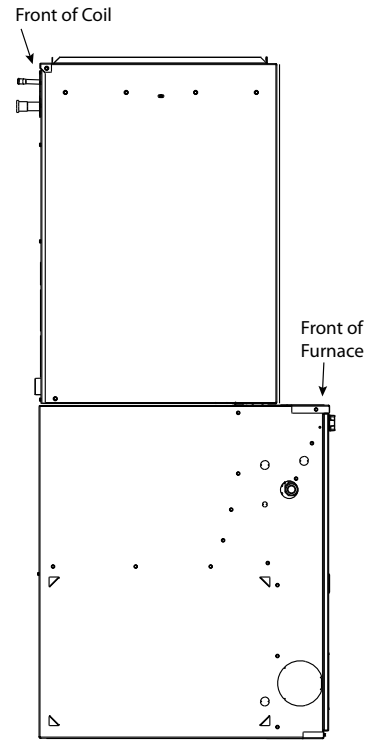


Fig. 5 – Smaller Furnace, Offset, Flush Mount Right or Left (not recommended) A221124A



**Fig. 6 – 90° Rotation (shown in downflow)
4\" Transition Required (not recommended)**

A221125A



**Fig. 7 – 180° Rotation (shown in upflow)
(not recommended)**

A221111

Table 2 – Accessories

| Part Number | Description |
|-------------|-----------------------------------|
| NAHB00101CA | Coil Adapter Kits - No Offset |
| NAHB00201CA | Coil Adapter Kits - Single Offset |
| NAHB00301CA | Coil Adapter Kits - Double Offset |

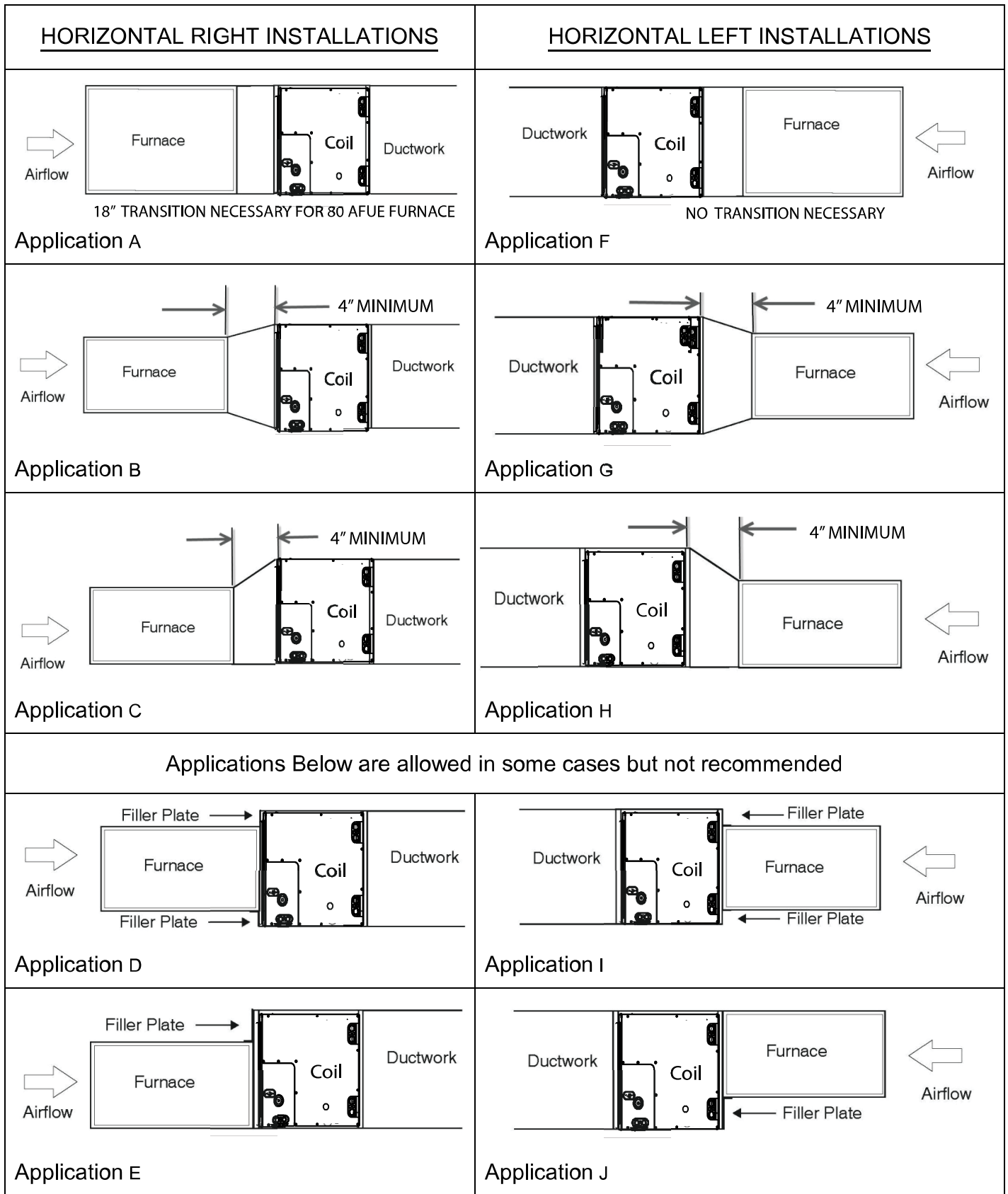


Fig. 8 – Horizontal Installation Examples

A221216C

DIMENSIONS

| UNIT | SERIES | A | | B (Cabinet Width) | | C | | D | | E | | F | | H (Suction Line) | | J | | OPERATING WEIGHT | | SHIPPING WEIGHT | | SHIPPING HEIGHT | | SHIPPING WIDTH | | SHIPPING DEPTH | |
|-------------|--------|----------|-------|----------------------|-------|---------|-------|---------|-------|----------|-------|--------|-------|---------------------|------|----------|-------|------------------|------|-----------------|------|-----------------|-------|----------------|-------|----------------|-------|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | Lbs | Kgs | Lbs | Kgs | INCH | MM | INCH | MM | INCH | MM |
| EVM4X24M14A | 1 | 14 11/16 | 372.4 | 14 3/16 | 360.4 | 12 7/16 | 316.2 | 13 3/16 | 335.2 | 11 5/8 | 294.8 | 7 1/8 | 180.2 | 3/4 | 19.1 | 9 3/4 | 246.9 | 24.5 | 11.1 | 28.9 | 13.1 | 16.0 | 406.4 | 16.3 | 414.0 | 23.8 | 604.5 |
| EVM4X24M17A | 1 | 14 11/16 | 372.4 | 17 1/2 | 444.5 | 15 3/4 | 400.3 | 13 3/16 | 335.2 | 11 5/8 | 294.8 | 8 3/4 | 222.3 | 3/4 | 19.1 | 9 3/4 | 246.9 | 33.1 | 15.0 | 39.3 | 17.8 | 16.0 | 406.4 | 19.6 | 497.8 | 23.8 | 604.5 |
| EVM4X25M17A | 1 | 19 7/16 | 494.5 | 17 1/2 | 444.5 | 15 3/4 | 400.3 | 17 5/16 | 440.4 | 15 11/16 | 398.7 | 8 3/4 | 222.3 | 3/4 | 19.1 | 14 1/2 | 369.0 | 33.7 | 15.3 | 40.0 | 18.1 | 20.7 | 525.8 | 19.6 | 497.8 | 23.8 | 604.5 |
| EVM4X30M17A | 1 | 19 7/16 | 494.5 | 17 1/2 | 444.5 | 15 3/4 | 400.3 | 17 5/16 | 440.4 | 15 11/16 | 398.7 | 8 3/4 | 222.3 | 3/4 | 19.1 | 14 1/2 | 369.0 | 33.7 | 15.3 | 40.0 | 18.1 | 20.7 | 525.8 | 19.6 | 497.8 | 23.8 | 604.5 |
| EVM4X31M17A | 1 | 25 13/16 | 656.4 | 17 1/2 | 444.5 | 15 3/4 | 400.3 | 24 3/16 | 614.2 | 22 13/16 | 578.8 | 8 3/4 | 222.3 | 3/4 | 19.1 | 20 7/8 | 530.9 | 40.3 | 18.3 | 47.9 | 21.7 | 27.1 | 688.3 | 19.6 | 497.8 | 23.8 | 604.5 |
| EVM4X32M17A | 1 | 29 3/4 | 755.3 | 17 1/2 | 444.5 | 15 3/4 | 400.3 | 27 3/4 | 704.9 | 26 11/16 | 677.7 | 8 3/4 | 222.3 | 3/4 | 19.1 | 24 13/16 | 629.8 | 45.1 | 20.5 | 53.6 | 24.3 | 31.0 | 787.4 | 19.6 | 497.8 | 23.8 | 604.5 |
| EVM4X36M17A | 1 | 19 7/16 | 494.5 | 17 1/2 | 444.5 | 15 3/4 | 400.3 | 17 5/16 | 440.4 | 15 11/16 | 398.7 | 8 3/4 | 222.3 | 3/4 | 19.1 | 14 1/2 | 369.0 | 33.7 | 15.3 | 40.0 | 18.1 | 20.7 | 525.8 | 19.6 | 497.8 | 23.8 | 604.5 |
| EVM4X42M21A | 1 | 19 1/16 | 483.4 | 21 | 533.4 | 19 1/4 | 489.2 | 16 7/8 | 427.9 | 16 | 405.8 | 10 1/2 | 266.7 | 7/8 | 22.2 | 14 1/16 | 357.9 | 34.4 | 15.6 | 40.9 | 18.5 | 20.4 | 518.2 | 23.1 | 586.7 | 23.8 | 604.5 |
| EVM4X43M21A | 1 | 21 15/16 | 557.9 | 21 | 533.4 | 19 1/4 | 489.2 | 20 5/8 | 523.5 | 19 | 483.2 | 10 1/2 | 266.7 | 7/8 | 22.2 | 17 1/8 | 435.3 | 38.2 | 17.3 | 45.4 | 20.6 | 23.5 | 596.9 | 23.1 | 586.7 | 23.8 | 604.5 |
| EVM4X44M21A | 1 | 29 3/4 | 755.3 | 21 | 533.4 | 19 1/4 | 489.2 | 28 1/4 | 717.0 | 26 11/16 | 677.7 | 10 1/2 | 266.7 | 7/8 | 22.2 | 24 13/16 | 629.8 | 47.6 | 21.6 | 56.5 | 25.6 | 31.0 | 787.4 | 23.1 | 586.7 | 23.8 | 604.5 |
| EVM4X48M21A | 1 | 21 15/16 | 557.9 | 21 | 533.4 | 19 1/4 | 489.2 | 20 1/16 | 510.0 | 18 5/16 | 465.0 | 10 1/2 | 266.7 | 7/8 | 22.2 | 17 1/8 | 435.3 | 38.2 | 17.3 | 45.4 | 20.6 | 23.5 | 596.9 | 23.1 | 586.7 | 23.8 | 604.5 |
| EVM4X49M21A | 1 | 29 3/4 | 755.3 | 21 | 533.4 | 19 1/4 | 489.2 | 28 1/4 | 717.0 | 26 11/16 | 677.7 | 10 1/2 | 266.7 | 7/8 | 22.2 | 24 13/16 | 629.8 | 47.6 | 21.6 | 56.5 | 25.6 | 31.0 | 787.4 | 23.1 | 586.7 | 23.8 | 604.5 |
| EVM4X60M21A | 1 | 29 3/4 | 755.3 | 21 | 533.4 | 19 1/4 | 489.2 | 28 1/4 | 717.0 | 26 11/16 | 677.7 | 10 1/2 | 266.7 | 7/8 | 22.2 | 24 13/16 | 629.8 | 47.6 | 21.6 | 56.5 | 25.6 | 31.0 | 787.4 | 23.1 | 586.7 | 23.8 | 604.5 |
| EVM4X60M24A | 1 | 26 5/16 | 669.0 | 24 1/2 | 622.3 | 22 3/4 | 578.1 | 24 3/4 | 629.3 | 23 5/16 | 591.4 | 12 1/4 | 311.2 | 7/8 | 22.2 | 21 3/8 | 543.5 | 44.7 | 20.3 | 53.0 | 24.1 | 27.7 | 703.6 | 26.6 | 675.6 | 23.8 | 604.5 |
| EVM4X61M24A | 1 | 35 | 889.6 | 24 1/2 | 622.3 | 22 3/4 | 578.1 | 33 7/16 | 850.0 | 31 1/4 | 793.8 | 12 1/4 | 311.2 | 7/8 | 22.2 | 30 1/16 | 764.1 | 58.4 | 26.5 | 69.3 | 31.4 | 36.3 | 922.0 | 26.6 | 675.6 | 23.8 | 604.5 |

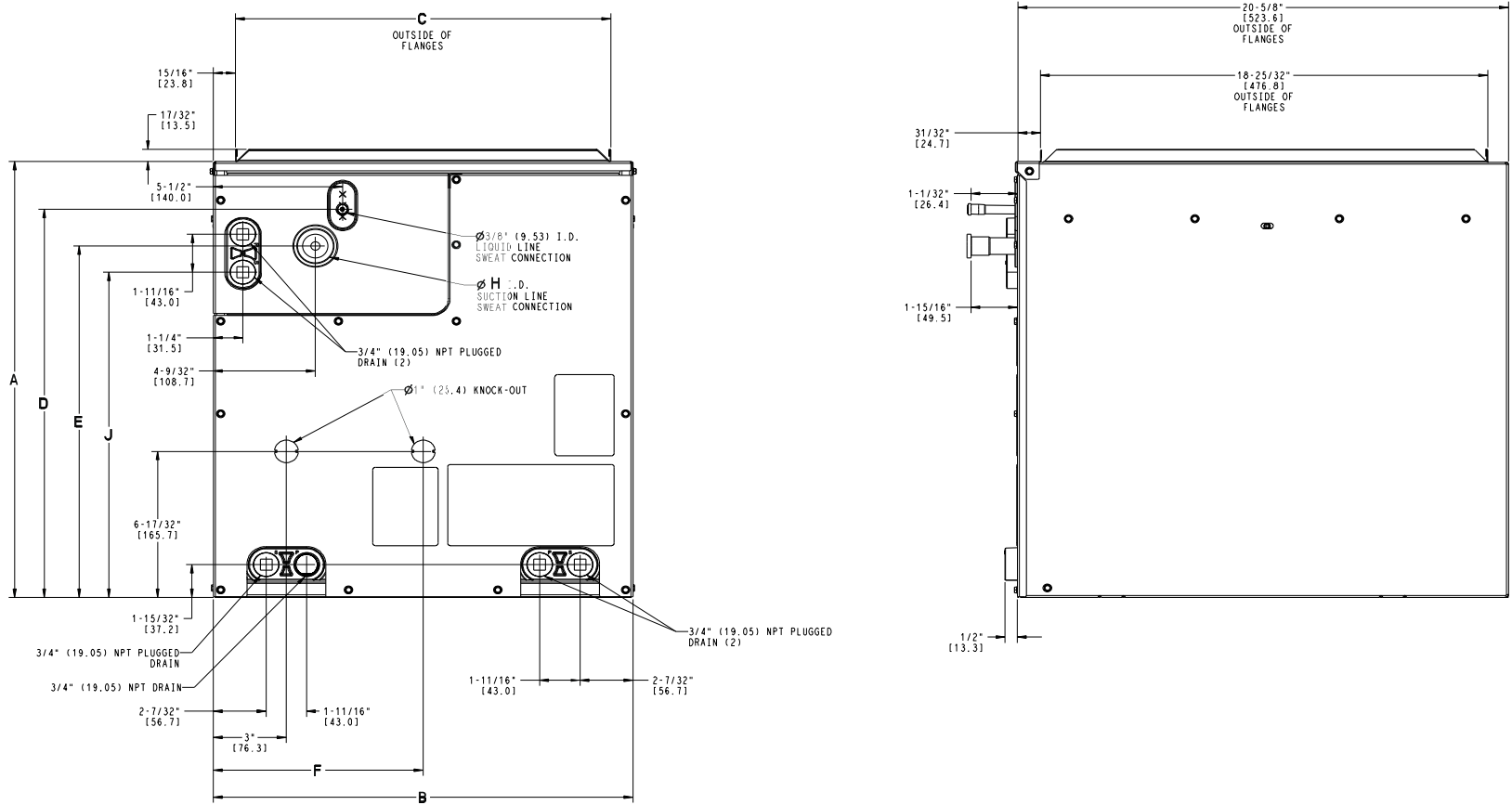


Fig. 9 – EVM4X Dimensions

WET COIL — INDOOR PERFORMANCE DATA - COIL STATIC PRESSURE DROP (in. w.c.) BY SCFM

| Models | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | | | | | |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| EVM4X24M14A | .20 | .23 | .26 | .29 | .33 | .37 | .40 | .44 | .49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X24M17A | .15 | .17 | .19 | .22 | .24 | .26 | .29 | .32 | .35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X25M17A | .10 | .12 | .14 | .15 | .17 | .19 | .21 | .23 | .25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X30M17A | | | | .15 | .17 | .19 | .21 | .23 | .25 | .28 | .30 | .32 | .35 | .38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X31M17A | | | | .13 | .15 | .16 | .18 | .20 | .21 | .23 | .25 | .28 | .30 | .32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X32M17A | | | | .11 | .12 | .13 | .15 | .16 | .18 | .20 | .21 | .23 | .25 | .27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X36M17A | | | | | | | .21 | .23 | .25 | .28 | .30 | .32 | .35 | .38 | .41 | .43 | .46 | .49 | .53 | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X42M21A | | | | | | | | | | .20 | .21 | .23 | .25 | .27 | .29 | .31 | .33 | .35 | .37 | .39 | .42 | .44 | .46 | .49 | | | | | | | | | | | | | | | | | | | | |
| EVM4X43M21A | | | | | | | | | | .20 | .22 | .23 | .25 | .27 | .29 | .30 | .32 | .34 | .36 | .39 | .41 | .43 | .45 | .48 | | | | | | | | | | | | | | | | | | | | |
| EVM4X44M21A | | | | | | | | | | .14 | .15 | .17 | .18 | .19 | .21 | .22 | .24 | .25 | .27 | .28 | .30 | .32 | .33 | .35 | | | | | | | | | | | | | | | | | | | | |
| EVM4X48M21A | | | | | | | | | | | | | .25 | .27 | .29 | .30 | .32 | .34 | .36 | .39 | .41 | .43 | .45 | .48 | .50 | .52 | .55 | .58 | .60 | | | | | | | | | | | | | | | |
| EVM4X49M21A | | | | | | | | | | | | .18 | .19 | .21 | .22 | .24 | .25 | .27 | .28 | .30 | .32 | .33 | .35 | .37 | .39 | .41 | .43 | .45 | | | | | | | | | | | | | | | | |
| EVM4X60M21A | | | | | | | | | | | | | | | | | | | .27 | .28 | .30 | .32 | .33 | .35 | .37 | .39 | .41 | .43 | .45 | .47 | .49 | .51 | .53 | .55 | .58 | .60 | .62 | .65 | .67 | | | | | |
| EVM4X60M24A | | | | | | | | | | | | | | | | | | | .21 | .22 | .24 | .25 | .26 | .28 | .29 | .31 | .32 | .34 | .36 | .37 | .39 | .41 | .43 | .45 | .46 | .48 | .50 | .52 | .54 | | | | | |
| EVM4X61M24A | | | | | | | | | | | | | | | | | | | .16 | .17 | .18 | .19 | .21 | .22 | .23 | .24 | .25 | .26 | .27 | .29 | .30 | .31 | .32 | .34 | .35 | .37 | .38 | .39 | .41 | | | | | |

DRY COIL — INDOOR PERFORMANCE DATA - COIL STATIC PRESSURE DROP (in. w.c.) BY SCFM

| Models | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 | 1600 | 1650 | 1700 | 1750 | 1800 | 1850 | 1900 | 1950 | 2000 | 2050 | 2100 | 2150 | 2200 | 2250 | 2300 | 2350 | 2400 | 2450 | 2500 | | | | | |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| EVM4X24M14A | .16 | .19 | .21 | .24 | .27 | .30 | .34 | .37 | .41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X24M17A | .12 | .14 | .15 | .17 | .19 | .21 | .23 | .25 | .28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X25M17A | .09 | .10 | .11 | .13 | .14 | .16 | .17 | .19 | .21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X30M17A | | | | .13 | .14 | .16 | .17 | .19 | .21 | .23 | .25 | .27 | .29 | .31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X31M17A | | | | .11 | .12 | .13 | .15 | .16 | .18 | .19 | .21 | .23 | .24 | .26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X32M17A | | | | .09 | .10 | .12 | .13 | .14 | .16 | .17 | .19 | .20 | .22 | .24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X36M17A | | | | | | | .17 | .19 | .21 | .23 | .25 | .27 | .29 | .31 | .33 | .36 | .38 | .40 | .43 | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVM4X42M21A | | | | | | | | | | .16 | .18 | .19 | .20 | .22 | .23 | .25 | .27 | .28 | .30 | .32 | .34 | .35 | .37 | .39 | | | | | | | | | | | | | | | | | | | | |
| EVM4X43M21A | | | | | | | | | | .16 | .18 | .19 | .20 | .22 | .23 | .25 | .27 | .28 | .30 | .32 | .34 | .36 | .38 | .40 | | | | | | | | | | | | | | | | | | | | |
| EVM4X44M21A | | | | | | | | | | .12 | .13 | .14 | .15 | .17 | .18 | .19 | .20 | .22 | .23 | .25 | .26 | .28 | .29 | .31 | | | | | | | | | | | | | | | | | | | | |
| EVM4X48M21A | | | | | | | | | | | | | .20 | .22 | .23 | .25 | .27 | .28 | .30 | .32 | .34 | .36 | .38 | .40 | .42 | .44 | .46 | .48 | .50 | | | | | | | | | | | | | | | |
| EVM4X49M21A | | | | | | | | | | | | .15 | .17 | .18 | .19 | .20 | .22 | .23 | .25 | .26 | .28 | .29 | .31 | .32 | .34 | .36 | .38 | .39 | | | | | | | | | | | | | | | | |
| EVM4X60M21A | | | | | | | | | | | | | | | | | | | .23 | .25 | .26 | .28 | .29 | .31 | .32 | .34 | .36 | .38 | .39 | .41 | .43 | .45 | .47 | .49 | .51 | .53 | .55 | .58 | .60 | | | | | |
| EVM4X60M24A | | | | | | | | | | | | | | | | | | | .18 | .19 | .20 | .21 | .22 | .23 | .24 | .26 | .27 | .28 | .30 | .31 | .32 | .34 | .35 | .37 | .38 | .40 | .41 | .43 | .44 | | | | | |
| EVM4X61M24A | | | | | | | | | | | | | | | | | | | .14 | .15 | .16 | .17 | .18 | .19 | .20 | .21 | .22 | .23 | .24 | .25 | .26 | .27 | .28 | .30 | .31 | .32 | .33 | .35 | .36 | | | | | |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 3 – Cooling Capacities (MBH) - R-410A Refrigerant

| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
|--------------------|-----|--|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X24M14A | | | | | | | | | | | | | | | | |
| 600 | 72 | 38.06 | 18.85 | 0.00 | 34.74 | 17.01 | 0.00 | 30.37 | 14.96 | 0.00 | 25.46 | 12.83 | 0.31 | 19.95 | 10.60 | 0.26 |
| | 67 | 31.57 | 19.60 | 0.35 | 27.59 | 17.60 | 0.24 | 23.30 | 15.48 | 0.24 | 18.38 | 13.15 | 0.24 | 13.13 | 10.76 | 0.26 |
| | 62 | 25.08 | 20.08 | 0.22 | 21.25 | 17.92 | 0.22 | 16.96 | 15.69 | 0.23 | 13.39 | 13.39 | 0.24 | 11.00 | 11.00 | 0.37 |
| 800 | 72 | 46.08 | 22.66 | 0.00 | 42.15 | 20.53 | 0.00 | 36.86 | 18.08 | 0.00 | 31.01 | 15.61 | 0.36 | 24.45 | 12.99 | 0.31 |
| | 67 | 38.30 | 23.78 | 0.38 | 33.43 | 21.40 | 0.29 | 28.38 | 18.91 | 0.29 | 22.55 | 16.23 | 0.29 | 16.05 | 13.29 | 0.30 |
| | 62 | 30.58 | 24.57 | 0.27 | 26.09 | 22.10 | 0.27 | 20.62 | 19.29 | 0.28 | 16.79 | 16.79 | 0.28 | 13.96 | 13.96 | 0.40 |
| 1000 | 72 | 53.45 | 26.08 | 0.00 | 48.57 | 23.56 | 0.00 | 42.53 | 20.82 | 0.00 | 35.61 | 18.00 | 0.38 | 28.53 | 15.13 | 0.35 |
| | 67 | 44.07 | 27.42 | 0.39 | 38.67 | 24.74 | 0.34 | 32.81 | 21.93 | 0.33 | 26.00 | 18.85 | 0.32 | 18.67 | 15.61 | 0.33 |
| | 62 | 35.26 | 28.48 | 0.31 | 29.91 | 25.64 | 0.31 | 23.88 | 22.58 | 0.31 | 19.78 | 19.78 | 0.32 | 16.51 | 16.51 | 0.43 |
| EVM4X24M17A | | | | | | | | | | | | | | | | |
| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X24M17A | | | | | | | | | | | | | | | | |
| 600 | 72 | 38.15 | 18.98 | 0.00 | 34.55 | 17.06 | 0.00 | 30.16 | 14.98 | 0.00 | 25.32 | 12.86 | 0.30 | 19.85 | 10.63 | 0.25 |
| | 67 | 31.36 | 19.64 | 0.33 | 27.39 | 17.61 | 0.23 | 23.16 | 15.50 | 0.22 | 18.30 | 13.18 | 0.23 | 13.14 | 10.84 | 0.24 |
| | 62 | 24.91 | 20.09 | 0.20 | 21.10 | 17.93 | 0.21 | 16.87 | 15.70 | 0.22 | 13.27 | 13.27 | 0.23 | 10.85 | 10.84 | 0.36 |
| 800 | 72 | 45.75 | 22.73 | 0.00 | 41.97 | 20.63 | 0.00 | 36.72 | 18.18 | 0.00 | 30.91 | 15.69 | 0.35 | 24.38 | 13.07 | 0.30 |
| | 67 | 38.12 | 23.87 | 0.37 | 33.36 | 21.47 | 0.29 | 28.28 | 18.98 | 0.28 | 22.48 | 16.30 | 0.27 | 16.03 | 13.35 | 0.29 |
| | 62 | 30.33 | 24.58 | 0.26 | 25.98 | 22.17 | 0.26 | 20.64 | 19.42 | 0.26 | 16.69 | 16.69 | 0.27 | 13.88 | 13.88 | 0.38 |
| 1000 | 72 | 53.13 | 26.16 | 0.00 | 48.37 | 23.66 | 0.00 | 42.38 | 20.94 | 0.00 | 35.70 | 18.12 | 0.39 | 28.52 | 15.24 | 0.34 |
| | 67 | 43.87 | 27.50 | 0.39 | 38.42 | 24.85 | 0.32 | 32.70 | 22.03 | 0.32 | 26.02 | 18.98 | 0.31 | 18.68 | 15.71 | 0.32 |
| | 62 | 35.13 | 28.59 | 0.30 | 29.82 | 25.75 | 0.30 | 23.91 | 22.73 | 0.30 | 19.71 | 19.71 | 0.30 | 16.44 | 16.44 | 0.41 |
| EVM4X25M17A | | | | | | | | | | | | | | | | |
| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X25M17A | | | | | | | | | | | | | | | | |
| 600 | 72 | 45.24 | 22.02 | 0.00 | 40.81 | 19.79 | 0.00 | 35.80 | 17.43 | 0.00 | 30.31 | 15.06 | 0.27 | 23.95 | 12.54 | 0.19 |
| | 67 | 36.90 | 22.63 | 0.30 | 32.41 | 20.34 | 0.19 | 27.45 | 17.98 | 0.16 | 21.92 | 15.45 | 0.16 | 15.99 | 12.86 | 0.17 |
| | 62 | 29.37 | 23.18 | 0.15 | 25.13 | 20.86 | 0.15 | 20.13 | 18.31 | 0.15 | 15.96 | 15.96 | 0.15 | 13.12 | 13.12 | 0.30 |
| 800 | 72 | 54.18 | 26.47 | 0.00 | 49.85 | 24.04 | 0.00 | 43.92 | 21.33 | 0.00 | 37.29 | 18.53 | 0.31 | 29.62 | 15.54 | 0.23 |
| | 67 | 45.26 | 27.79 | 0.31 | 39.76 | 25.02 | 0.24 | 33.84 | 22.27 | 0.21 | 27.16 | 19.27 | 0.20 | 19.81 | 16.10 | 0.21 |
| | 62 | 36.09 | 28.67 | 0.20 | 30.98 | 25.91 | 0.20 | 24.85 | 22.88 | 0.20 | 20.05 | 20.05 | 0.20 | 16.80 | 16.80 | 0.32 |
| 1000 | 72 | 62.99 | 30.47 | 0.00 | 57.67 | 27.71 | 0.00 | 50.88 | 24.67 | 0.00 | 43.24 | 21.49 | 0.35 | 34.77 | 18.19 | 0.28 |
| | 67 | 52.20 | 32.12 | 0.33 | 45.98 | 29.05 | 0.28 | 39.27 | 25.96 | 0.25 | 31.57 | 22.56 | 0.24 | 23.01 | 18.90 | 0.25 |
| | 62 | 41.80 | 33.45 | 0.23 | 35.93 | 30.32 | 0.24 | 28.85 | 26.87 | 0.23 | 23.80 | 23.80 | 0.24 | 20.08 | 20.08 | 0.35 |

Table 3 – Cooling Capacities (MBH) - R-410A Refrigerant (Continued)

| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
|--------------------|-----|--|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X30M17A | | | | | | | | | | | | | | | | |
| 750 | 72 | 50.66 | 25.13 | 0.00 | 45.80 | 22.64 | 0.00 | 40.27 | 20.06 | 0.00 | 34.00 | 17.31 | 0.30 | 27.21 | 14.56 | 0.23 |
| | 67 | 41.50 | 26.09 | 0.29 | 36.42 | 23.47 | 0.22 | 30.94 | 20.81 | 0.20 | 24.76 | 17.94 | 0.20 | 18.06 | 14.97 | 0.20 |
| | 62 | 33.09 | 26.86 | 0.18 | 28.35 | 24.21 | 0.19 | 22.71 | 21.31 | 0.19 | 18.10 | 18.10 | 0.20 | 15.13 | 15.12 | 0.32 |
| 1000 | 72 | 60.09 | 29.83 | 0.00 | 55.27 | 27.24 | 0.00 | 48.78 | 24.25 | 0.00 | 41.33 | 21.08 | 0.33 | 33.17 | 17.79 | 0.28 |
| | 67 | 50.10 | 31.54 | 0.33 | 44.17 | 28.59 | 0.27 | 37.64 | 25.46 | 0.25 | 30.22 | 22.09 | 0.24 | 22.11 | 18.55 | 0.25 |
| | 62 | 40.08 | 32.80 | 0.24 | 34.48 | 29.74 | 0.24 | 27.70 | 26.36 | 0.23 | 22.70 | 22.70 | 0.24 | 19.12 | 19.12 | 0.35 |
| 1250 | 72 | 68.19 | 33.71 | 0.00 | 63.11 | 31.00 | 0.00 | 55.83 | 27.72 | 0.00 | 47.41 | 24.18 | 0.37 | 37.82 | 20.45 | 0.31 |
| | 67 | 57.19 | 36.13 | 0.35 | 50.57 | 32.88 | 0.31 | 43.25 | 29.44 | 0.29 | 34.77 | 25.66 | 0.28 | 25.36 | 21.57 | 0.29 |
| | 62 | 45.90 | 37.91 | 0.28 | 39.34 | 34.45 | 0.28 | 31.81 | 30.70 | 0.27 | 26.82 | 26.82 | 0.28 | 22.57 | 22.57 | 0.39 |
| EVM4X31M17A | | | | | | | | | | | | | | | | |
| 750 | 72 | 48.31 | 23.38 | 0.00 | 43.93 | 21.18 | 0.00 | 38.71 | 18.80 | 0.00 | 32.87 | 16.31 | 0.23 | 26.11 | 13.66 | 0.17 |
| | 67 | 39.74 | 24.37 | 0.21 | 35.07 | 22.00 | 0.17 | 29.78 | 19.51 | 0.15 | 23.91 | 16.85 | 0.15 | 17.53 | 14.08 | 0.16 |
| | 62 | 31.75 | 25.08 | 0.13 | 27.29 | 22.68 | 0.14 | 22.00 | 20.03 | 0.14 | 17.25 | 17.25 | 0.16 | 14.43 | 14.43 | 0.29 |
| 1000 | 72 | 57.79 | 27.96 | 0.00 | 53.28 | 25.60 | 0.00 | 47.20 | 22.90 | 0.00 | 40.23 | 19.99 | 0.27 | 32.08 | 16.87 | 0.21 |
| | 67 | 48.28 | 29.69 | 0.25 | 42.74 | 26.97 | 0.21 | 36.52 | 24.11 | 0.19 | 29.51 | 21.01 | 0.19 | 21.78 | 17.74 | 0.19 |
| | 62 | 38.74 | 30.93 | 0.18 | 33.49 | 28.17 | 0.18 | 27.04 | 25.00 | 0.18 | 22.03 | 22.03 | 0.19 | 18.57 | 18.57 | 0.31 |
| 1250 | 72 | 66.42 | 31.88 | 0.00 | 61.12 | 29.29 | 0.00 | 54.24 | 26.33 | 0.00 | 46.38 | 23.12 | 0.30 | 37.15 | 19.63 | 0.25 |
| | 67 | 55.30 | 34.17 | 0.28 | 49.10 | 31.20 | 0.25 | 42.17 | 28.06 | 0.23 | 34.14 | 24.57 | 0.22 | 25.28 | 20.88 | 0.22 |
| | 62 | 44.57 | 35.98 | 0.22 | 38.39 | 32.80 | 0.22 | 31.26 | 29.35 | 0.21 | 26.13 | 26.12 | 0.23 | 22.08 | 22.08 | 0.35 |
| EVM4X32M17A | | | | | | | | | | | | | | | | |
| 900 | 72 | 50.34 | 24.62 | 0.00 | 45.67 | 22.22 | 0.00 | 40.36 | 19.75 | 0.00 | 34.36 | 17.12 | 0.25 | 27.42 | 14.34 | 0.16 |
| | 67 | 41.34 | 25.47 | 0.24 | 36.48 | 22.96 | 0.16 | 31.01 | 20.33 | 0.14 | 24.90 | 17.61 | 0.12 | 18.33 | 14.78 | 0.12 |
| | 62 | 32.95 | 26.12 | 0.11 | 28.28 | 23.60 | 0.11 | 22.74 | 20.79 | 0.11 | 17.81 | 17.81 | 0.13 | 14.86 | 14.86 | 0.26 |
| 1200 | 72 | 60.80 | 29.73 | 0.00 | 56.03 | 27.15 | 0.00 | 49.67 | 24.25 | 0.00 | 42.44 | 21.17 | 0.28 | 34.00 | 17.84 | 0.20 |
| | 67 | 50.71 | 31.32 | 0.25 | 44.92 | 28.41 | 0.20 | 38.34 | 25.31 | 0.17 | 30.93 | 22.06 | 0.16 | 22.84 | 18.66 | 0.16 |
| | 62 | 40.56 | 32.45 | 0.15 | 34.89 | 29.42 | 0.15 | 28.24 | 26.18 | 0.15 | 22.79 | 22.79 | 0.16 | 19.13 | 19.13 | 0.29 |
| 1500 | 72 | 70.75 | 34.21 | 0.00 | 64.80 | 31.30 | 0.00 | 57.50 | 28.06 | 0.00 | 49.30 | 24.64 | 0.30 | 39.62 | 20.89 | 0.23 |
| | 67 | 58.57 | 36.30 | 0.27 | 52.02 | 33.07 | 0.23 | 44.56 | 29.64 | 0.21 | 36.06 | 25.98 | 0.19 | 26.68 | 22.08 | 0.19 |
| | 62 | 46.98 | 37.94 | 0.19 | 40.61 | 34.64 | 0.19 | 32.87 | 30.92 | 0.18 | 27.50 | 27.50 | 0.19 | 23.15 | 23.15 | 0.31 |

Table 3 – Cooling Capacities (MBH) - R-410A Refrigerant (Continued)

| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
|--------------------|-----|--|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X36M17A | | | | | | | | | | | | | | | | |
| 900 | 72 | 59.55 | 29.55 | 0.00 | 54.44 | 26.84 | 0.00 | 47.80 | 23.73 | 0.00 | 40.29 | 20.46 | 0.33 | 32.20 | 17.20 | 0.26 |
| | 67 | 49.33 | 30.93 | 0.37 | 43.24 | 27.81 | 0.26 | 36.66 | 24.63 | 0.24 | 29.32 | 21.26 | 0.23 | 21.36 | 17.74 | 0.23 |
| | 62 | 39.28 | 31.85 | 0.22 | 33.65 | 28.75 | 0.22 | 26.91 | 25.31 | 0.22 | 21.68 | 21.68 | 0.22 | 18.19 | 18.19 | 0.34 |
| 1200 | 72 | 71.40 | 35.22 | 0.00 | 65.42 | 32.08 | 0.00 | 57.59 | 28.52 | 0.00 | 48.64 | 24.69 | 0.38 | 38.60 | 20.76 | 0.31 |
| | 67 | 59.24 | 37.20 | 0.38 | 52.14 | 33.67 | 0.31 | 44.36 | 29.95 | 0.29 | 35.46 | 25.94 | 0.28 | 25.80 | 21.73 | 0.28 |
| | 62 | 47.29 | 38.66 | 0.27 | 40.38 | 34.97 | 0.27 | 32.51 | 31.01 | 0.27 | 26.94 | 26.94 | 0.27 | 22.67 | 22.67 | 0.38 |
| 1500 | 72 | 81.69 | 39.99 | 0.00 | 74.74 | 36.49 | 0.00 | 65.86 | 32.58 | 0.00 | 55.79 | 28.36 | 0.41 | 44.31 | 23.93 | 0.34 |
| | 67 | 67.67 | 42.61 | 0.40 | 59.64 | 38.67 | 0.35 | 50.88 | 34.56 | 0.33 | 40.67 | 30.02 | 0.32 | 29.67 | 25.32 | 0.32 |
| | 62 | 54.19 | 44.68 | 0.31 | 46.62 | 40.62 | 0.31 | 37.27 | 36.04 | 0.31 | 31.49 | 31.49 | 0.31 | 26.59 | 26.59 | 0.42 |
| EVM4X42M21A | | | | | | | | | | | | | | | | |
| 900 | 72 | 67.79 | 33.30 | 0.00 | 61.46 | 30.13 | 0.00 | 53.97 | 26.70 | 0.00 | 45.68 | 23.14 | 0.36 | 36.22 | 19.42 | 0.28 |
| | 67 | 55.62 | 34.83 | 0.39 | 48.84 | 31.40 | 0.29 | 41.53 | 27.93 | 0.26 | 33.24 | 24.17 | 0.25 | 24.28 | 20.29 | 0.25 |
| | 62 | 44.37 | 36.06 | 0.24 | 37.80 | 32.52 | 0.24 | 30.43 | 28.80 | 0.24 | 24.94 | 24.94 | 0.24 | 20.94 | 20.94 | 0.36 |
| 1200 | 72 | 79.88 | 39.09 | 0.00 | 73.16 | 35.70 | 0.00 | 64.43 | 31.80 | 0.00 | 54.67 | 27.73 | 0.40 | 43.49 | 23.40 | 0.33 |
| | 67 | 66.20 | 41.59 | 0.39 | 58.32 | 37.68 | 0.34 | 49.72 | 33.65 | 0.32 | 39.90 | 29.31 | 0.30 | 29.02 | 24.63 | 0.30 |
| | 62 | 52.97 | 43.49 | 0.30 | 45.23 | 39.41 | 0.30 | 36.47 | 35.07 | 0.29 | 30.68 | 30.68 | 0.30 | 25.90 | 25.90 | 0.40 |
| 1500 | 72 | 89.44 | 43.70 | 0.00 | 82.93 | 40.37 | 0.00 | 73.30 | 36.18 | 0.00 | 62.24 | 31.63 | 0.43 | 49.48 | 26.79 | 0.37 |
| | 67 | 75.08 | 47.39 | 0.41 | 66.36 | 43.15 | 0.37 | 56.74 | 38.71 | 0.35 | 45.40 | 33.78 | 0.34 | 33.13 | 28.56 | 0.34 |
| | 62 | 60.13 | 49.92 | 0.34 | 51.46 | 45.48 | 0.33 | 41.63 | 40.66 | 0.33 | 35.61 | 35.61 | 0.34 | 30.13 | 30.13 | 0.44 |
| EVM4X43M21A | | | | | | | | | | | | | | | | |
| 1050 | 72 | 70.28 | 34.36 | 0.00 | 64.15 | 31.27 | 0.00 | 56.49 | 27.78 | 0.00 | 47.93 | 24.14 | 0.32 | 38.05 | 20.27 | 0.25 |
| | 67 | 58.02 | 36.11 | 0.32 | 51.12 | 32.64 | 0.25 | 43.52 | 29.07 | 0.23 | 34.96 | 25.23 | 0.22 | 25.60 | 21.19 | 0.22 |
| | 62 | 46.37 | 37.43 | 0.21 | 39.66 | 33.84 | 0.21 | 32.02 | 30.01 | 0.21 | 26.09 | 26.09 | 0.21 | 21.93 | 21.93 | 0.34 |
| 1400 | 72 | 83.31 | 40.51 | 0.00 | 76.53 | 37.14 | 0.00 | 67.60 | 33.19 | 0.00 | 57.51 | 29.01 | 0.36 | 45.83 | 24.52 | 0.30 |
| | 67 | 69.28 | 43.27 | 0.35 | 61.12 | 39.24 | 0.31 | 52.25 | 35.18 | 0.28 | 42.08 | 30.70 | 0.27 | 30.75 | 25.84 | 0.27 |
| | 62 | 55.52 | 45.32 | 0.27 | 47.85 | 41.26 | 0.26 | 38.51 | 36.72 | 0.26 | 32.22 | 32.22 | 0.27 | 27.28 | 27.28 | 0.38 |
| 1750 | 72 | 92.84 | 45.11 | 0.00 | 86.66 | 41.96 | 0.00 | 76.82 | 37.73 | 0.00 | 65.45 | 33.09 | 0.39 | 52.13 | 28.09 | 0.34 |
| | 67 | 78.47 | 49.27 | 0.37 | 69.51 | 44.95 | 0.34 | 59.56 | 40.44 | 0.32 | 47.89 | 35.39 | 0.31 | 35.16 | 30.02 | 0.31 |
| | 62 | 63.13 | 52.13 | 0.31 | 54.12 | 47.55 | 0.30 | 43.87 | 42.55 | 0.30 | 37.50 | 37.50 | 0.31 | 31.89 | 31.89 | 0.41 |

Table 3 – Cooling Capacities (MBH) - R-410A Refrigerant (Continued)

| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
|--------------------|-----|--|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X44M21A | | | | | | | | | | | | | | | | |
| 1050 | 72 | 73.68 | 35.84 | 0.00 | 67.17 | 32.64 | 0.00 | 59.57 | 29.21 | 0.00 | 50.91 | 25.51 | 0.28 | 40.79 | 21.54 | 0.20 |
| | 67 | 60.77 | 37.71 | 0.25 | 53.86 | 34.23 | 0.20 | 46.01 | 30.55 | 0.18 | 37.09 | 26.64 | 0.16 | 27.42 | 22.53 | 0.16 |
| | 62 | 48.65 | 39.17 | 0.16 | 41.75 | 35.53 | 0.15 | 33.92 | 31.65 | 0.15 | 27.52 | 27.51 | 0.17 | 23.16 | 23.16 | 0.29 |
| 1400 | 72 | 87.61 | 42.39 | 0.00 | 80.40 | 38.95 | 0.00 | 71.52 | 35.05 | 0.00 | 61.40 | 30.87 | 0.31 | 49.41 | 26.28 | 0.24 |
| | 67 | 72.70 | 45.37 | 0.28 | 64.69 | 41.45 | 0.25 | 55.54 | 37.29 | 0.22 | 45.03 | 32.78 | 0.21 | 33.38 | 27.94 | 0.20 |
| | 62 | 58.42 | 47.69 | 0.21 | 50.62 | 43.68 | 0.20 | 41.05 | 39.10 | 0.20 | 34.77 | 34.77 | 0.21 | 29.31 | 29.31 | 0.32 |
| 1750 | 72 | 99.07 | 47.72 | 0.00 | 91.05 | 44.08 | 0.00 | 81.20 | 39.87 | 0.00 | 69.92 | 35.32 | 0.34 | 56.46 | 30.28 | 0.28 |
| | 67 | 82.26 | 51.69 | 0.31 | 73.40 | 47.45 | 0.28 | 63.24 | 42.97 | 0.26 | 51.47 | 38.02 | 0.25 | 38.31 | 32.66 | 0.24 |
| | 62 | 66.35 | 54.98 | 0.24 | 57.33 | 50.53 | 0.24 | 46.89 | 45.58 | 0.23 | 40.79 | 40.79 | 0.25 | 34.59 | 34.59 | 0.36 |
| EVM4X48M21A | | | | | | | | | | | | | | | | |
| 1200 | 72 | 73.87 | 35.91 | 0.00 | 67.26 | 32.69 | 0.00 | 59.32 | 29.10 | 0.00 | 50.53 | 25.40 | 0.35 | 40.27 | 21.41 | 0.28 |
| | 67 | 60.80 | 37.84 | 0.35 | 53.64 | 34.26 | 0.28 | 45.78 | 30.63 | 0.25 | 36.83 | 26.68 | 0.24 | 27.06 | 22.53 | 0.24 |
| | 62 | 48.63 | 39.41 | 0.24 | 41.58 | 35.70 | 0.23 | 33.61 | 31.77 | 0.23 | 27.83 | 27.83 | 0.23 | 23.56 | 23.56 | 0.35 |
| 1600 | 72 | 85.80 | 41.62 | 0.00 | 79.40 | 38.44 | 0.00 | 70.40 | 34.51 | 0.00 | 60.05 | 30.24 | 0.39 | 48.05 | 25.71 | 0.32 |
| | 67 | 71.91 | 44.97 | 0.37 | 63.61 | 40.91 | 0.33 | 54.43 | 36.75 | 0.31 | 43.93 | 32.24 | 0.29 | 32.18 | 27.29 | 0.29 |
| | 62 | 57.60 | 47.29 | 0.29 | 49.42 | 43.11 | 0.28 | 40.07 | 38.60 | 0.28 | 34.55 | 34.55 | 0.28 | 29.07 | 29.07 | 0.39 |
| 2000 | 72 | 96.29 | 46.56 | 0.00 | 89.52 | 43.29 | 0.00 | 79.58 | 39.08 | 0.00 | 68.10 | 34.44 | 0.42 | 55.12 | 29.51 | 0.37 |
| | 67 | 80.98 | 51.00 | 0.39 | 71.92 | 46.66 | 0.37 | 61.79 | 42.16 | 0.35 | 49.89 | 37.15 | 0.33 | 36.81 | 31.75 | 0.33 |
| | 62 | 65.18 | 54.29 | 0.33 | 55.93 | 49.66 | 0.32 | 45.77 | 44.98 | 0.31 | 40.04 | 40.04 | 0.33 | 33.77 | 33.77 | 0.43 |
| EVM4X49M21A | | | | | | | | | | | | | | | | |
| 1200 | 72 | 76.69 | 37.29 | 0.00 | 70.10 | 34.13 | 0.00 | 62.14 | 30.54 | 0.00 | 53.12 | 26.75 | 0.29 | 42.53 | 22.64 | 0.22 |
| | 67 | 63.28 | 39.47 | 0.26 | 56.15 | 35.92 | 0.22 | 48.08 | 32.21 | 0.20 | 38.83 | 28.14 | 0.18 | 28.78 | 23.89 | 0.18 |
| | 62 | 50.79 | 41.25 | 0.18 | 43.70 | 37.53 | 0.18 | 35.51 | 33.50 | 0.17 | 29.45 | 29.45 | 0.18 | 24.70 | 24.70 | 0.31 |
| 1600 | 72 | 90.24 | 43.69 | 0.00 | 83.01 | 40.36 | 0.00 | 73.96 | 36.41 | 0.00 | 63.46 | 32.10 | 0.32 | 51.03 | 27.40 | 0.26 |
| | 67 | 75.09 | 47.18 | 0.29 | 66.84 | 43.19 | 0.27 | 57.45 | 38.96 | 0.24 | 46.66 | 34.35 | 0.23 | 34.66 | 29.34 | 0.23 |
| | 62 | 60.45 | 49.90 | 0.23 | 52.17 | 45.70 | 0.22 | 42.55 | 41.06 | 0.22 | 36.54 | 36.54 | 0.23 | 30.87 | 30.87 | 0.35 |
| 2000 | 72 | 101.35 | 48.91 | 0.00 | 93.30 | 45.31 | 0.00 | 83.34 | 41.15 | 0.00 | 71.79 | 36.52 | 0.35 | 57.74 | 31.34 | 0.30 |
| | 67 | 84.36 | 53.48 | 0.32 | 75.34 | 49.22 | 0.30 | 65.05 | 44.69 | 0.28 | 52.93 | 39.60 | 0.27 | 39.32 | 33.98 | 0.27 |
| | 62 | 68.08 | 57.16 | 0.27 | 58.98 | 52.71 | 0.26 | 48.56 | 47.94 | 0.25 | 42.62 | 42.62 | 0.28 | 36.18 | 36.18 | 0.39 |

Table 3 – Cooling Capacities (MBH) - R-410A Refrigerant (Continued)

| INDOOR COIL AIR | | SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F) | | | | | | | | | | | | | | |
|--------------------|-----|--|-------|------|--------|-------|------|--------|-------|------|-------|-------|------|-------|-------|------|
| | | 35 | | | 40 | | | 45 | | | 50 | | | 55 | | |
| CFM | EWB | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF | TC | SHC | BF |
| EVM4X60M21A | | | | | | | | | | | | | | | | |
| 1500 | 72 | 91.48 | 44.44 | 0.00 | 83.87 | 40.87 | 0.00 | 74.51 | 36.77 | 0.00 | 63.91 | 32.41 | 0.31 | 51.31 | 27.60 | 0.25 |
| | 67 | 75.74 | 47.66 | 0.28 | 67.39 | 43.58 | 0.26 | 57.89 | 39.30 | 0.23 | 46.89 | 34.51 | 0.22 | 34.82 | 29.46 | 0.22 |
| | 62 | 61.01 | 50.32 | 0.22 | 52.89 | 46.18 | 0.21 | 42.93 | 41.32 | 0.21 | 36.48 | 36.48 | 0.22 | 30.79 | 30.79 | 0.34 |
| 2000 | 72 | 105.88 | 51.23 | 0.00 | 97.62 | 47.57 | 0.00 | 87.16 | 43.17 | 0.00 | 75.02 | 38.32 | 0.35 | 60.55 | 32.95 | 0.30 |
| | 67 | 88.23 | 56.12 | 0.32 | 78.82 | 51.67 | 0.30 | 67.98 | 46.90 | 0.28 | 55.43 | 41.62 | 0.27 | 41.09 | 35.62 | 0.27 |
| | 62 | 71.25 | 60.01 | 0.27 | 61.74 | 55.34 | 0.26 | 50.91 | 50.42 | 0.25 | 44.60 | 44.60 | 0.28 | 37.85 | 37.85 | 0.39 |
| 2500 | 72 | 117.33 | 56.78 | 0.00 | 108.41 | 53.00 | 0.00 | 97.11 | 48.40 | 0.45 | 83.89 | 43.22 | 0.38 | 67.74 | 37.37 | 0.33 |
| | 67 | 98.07 | 63.18 | 0.35 | 87.81 | 58.45 | 0.34 | 76.12 | 53.45 | 0.32 | 62.18 | 47.69 | 0.31 | 46.32 | 41.15 | 0.31 |
| | 62 | 79.44 | 68.37 | 0.31 | 68.98 | 63.42 | 0.30 | 58.14 | 58.14 | 0.26 | 52.01 | 52.00 | 0.33 | 43.95 | 43.95 | 0.43 |
| EVM4X60M24A | | | | | | | | | | | | | | | | |
| 1500 | 72 | 95.05 | 47.18 | 0.00 | 86.49 | 43.00 | 0.00 | 76.55 | 38.48 | 0.00 | 65.38 | 33.70 | 0.35 | 51.86 | 28.42 | 0.27 |
| | 67 | 78.43 | 50.08 | 0.34 | 69.21 | 45.39 | 0.29 | 59.16 | 40.67 | 0.26 | 47.65 | 35.57 | 0.24 | 35.04 | 30.13 | 0.24 |
| | 62 | 62.48 | 52.17 | 0.24 | 53.93 | 47.59 | 0.24 | 43.48 | 42.45 | 0.23 | 36.52 | 36.52 | 0.23 | 30.90 | 30.90 | 0.35 |
| 2000 | 72 | 110.73 | 54.63 | 0.00 | 101.58 | 50.38 | 0.00 | 90.20 | 45.36 | 0.00 | 77.27 | 39.99 | 0.39 | 62.03 | 34.13 | 0.32 |
| | 67 | 91.79 | 59.02 | 0.37 | 81.54 | 53.95 | 0.33 | 69.87 | 48.63 | 0.31 | 56.53 | 42.89 | 0.29 | 41.61 | 36.55 | 0.29 |
| | 62 | 73.61 | 62.44 | 0.29 | 63.34 | 57.26 | 0.28 | 51.39 | 51.36 | 0.28 | 45.11 | 45.11 | 0.29 | 38.01 | 38.01 | 0.39 |
| 2500 | 72 | 122.60 | 60.37 | 0.00 | 113.83 | 56.48 | 0.00 | 101.48 | 51.19 | 0.00 | 87.16 | 45.35 | 0.41 | 69.91 | 38.89 | 0.36 |
| | 67 | 102.94 | 66.78 | 0.39 | 91.68 | 61.38 | 0.37 | 78.81 | 55.62 | 0.35 | 63.73 | 49.18 | 0.33 | 47.11 | 42.25 | 0.33 |
| | 62 | 82.83 | 71.48 | 0.33 | 71.33 | 65.79 | 0.32 | 59.65 | 61.14 | 0.30 | 51.69 | 51.69 | 0.34 | 43.99 | 43.99 | 0.44 |
| EVM4X61M24A | | | | | | | | | | | | | | | | |
| 1500 | 72 | 94.46 | 45.65 | 0.00 | 86.26 | 41.81 | 0.00 | 76.80 | 37.61 | 0.00 | 65.93 | 33.10 | 0.30 | 53.14 | 28.19 | 0.23 |
| | 67 | 77.91 | 48.53 | 0.27 | 69.38 | 44.37 | 0.23 | 59.55 | 39.89 | 0.21 | 48.22 | 35.07 | 0.19 | 35.85 | 29.95 | 0.18 |
| | 62 | 62.60 | 51.02 | 0.19 | 53.97 | 46.63 | 0.18 | 43.99 | 41.83 | 0.18 | 37.12 | 37.12 | 0.19 | 31.34 | 31.34 | 0.31 |
| 2000 | 72 | 110.16 | 52.98 | 0.00 | 101.33 | 49.08 | 0.00 | 90.57 | 44.50 | 0.00 | 78.09 | 39.47 | 0.33 | 63.23 | 33.91 | 0.27 |
| | 67 | 91.60 | 57.64 | 0.30 | 81.85 | 53.03 | 0.27 | 70.60 | 48.04 | 0.25 | 57.38 | 42.57 | 0.24 | 42.80 | 36.62 | 0.23 |
| | 62 | 73.76 | 61.30 | 0.24 | 63.81 | 56.46 | 0.23 | 52.76 | 51.59 | 0.22 | 45.76 | 45.76 | 0.25 | 38.83 | 38.83 | 0.36 |
| 2500 | 72 | 122.87 | 59.05 | 0.00 | 113.06 | 54.89 | 0.00 | 101.33 | 50.02 | 0.00 | 87.66 | 44.67 | 0.35 | 71.21 | 38.64 | 0.31 |
| | 67 | 102.27 | 65.08 | 0.33 | 91.57 | 60.13 | 0.31 | 79.23 | 54.80 | 0.29 | 64.58 | 48.89 | 0.27 | 48.31 | 42.31 | 0.27 |
| | 62 | 82.54 | 69.99 | 0.28 | 71.56 | 64.86 | 0.27 | 60.86 | 60.73 | 0.25 | 53.27 | 53.27 | 0.29 | 45.29 | 45.29 | 0.40 |

CFM - Cubic Ft. per Minute **EWB** - Entering Wet Bulb (°F) **LWB** - Leaving Wet Bulb (°F) **TC** - Gross Cooling Capacity 1000 Btuh
SHC - Gross Sensible Capacity 1000 Btuh **BF** - Bypass Factor **MBH** - 1000 Btuh

COOLING CAPACITIES NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:
 Leaving db = entering db - $\frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$
 Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{LWB})

 $h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$
 Where h_{EWB} = enthalpy of air entering coil
3. SHC is based on 80°F db temperature of air entering the evaporator coil.
 Below 80°F db, subtract (Correction Factor x CFM) from SHC.
 Above 80°F db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on approximately 10°F superheat measured at the suction service valve and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction-tube connection and a liquid-tube connection. For 1-1/8-in. system suction tube, 3/4 x 1-1/8-in. suction tube connection adapter is available as accessory.
8. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
9. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

| BYPASS FACTOR | ENTERING AIR DRY BULB TEMPERATURE (°F) | | | | | |
|-------------------|--|------|------|------|------|-------------------------|
| | 79 | 78 | 77 | 76 | 75 | Under 75 |
| | 81 | 82 | 83 | 84 | 84 | Above 85 |
| Correction Factor | | | | | | |
| 0.10 | 0.98 | 1.96 | 2.94 | 3.92 | 4.91 | Use formula shown below |
| 0.20 | 0.87 | 1.74 | 2.62 | 3.49 | 4.36 | |
| 0.30 | 0.76 | 1.53 | 2.29 | 3.05 | 3.82 | |

Interpolation is permissible.

Correction Factor = $1.09 \times (1 - BF) \times (db - 80)$