



### HORIZONTAL FAN COILS

- FMU4P and FMC4P 1-1/2, 2, 2-1/2, and 3 Tons
- FMU4X and FMC4X 1-1/2, 2 and 2-1/2 Tons

#### ALL MODELS

- Horizontal application only
- Accessory field-installed electric heat kits available in 5, 7.5, or 10 kW
- 40 VA 208/230v-1-60 transformer
- FMU4P & FMC4P use R-410A piston metering device
- FMU4X & FMC4X use R-410A TXV metering device
- R-22 capable with accessory R-22 TXV

#### FMC4X & FMC4P

- Horizontal return applications require field fabricated bottom cover
- Cabinets meet the requirement of 2% cabinet leakage rate at 1-in. w.c. of static pressure
- Cabinets constructed to prevent cabinet sweating
- Refrigerant lines and electrical connections can be run out the back or side of casing

#### PERFORMANCE

- PSC motor on all models

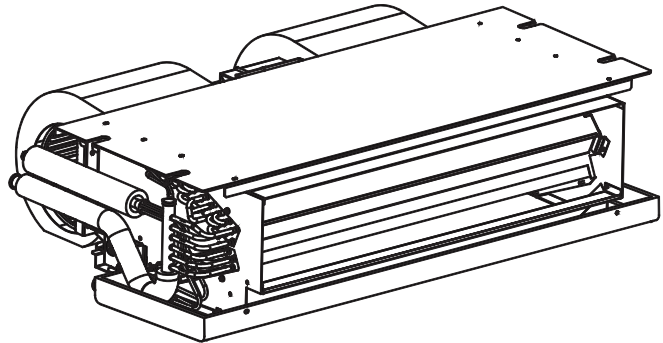
#### EASY TO INSTALL AND SERVICE

- A-coil design for maximum surface area
- Multiple electrical, refrigerant lineset and drain line entry for application flexibility
- Primary and secondary drain connections exit from the back or side of the cabinet
- Supports furred-down ceiling open return and ducted return applications
- Sweat connections for long term reliability
- Grooved copper tube / aluminum fin coils

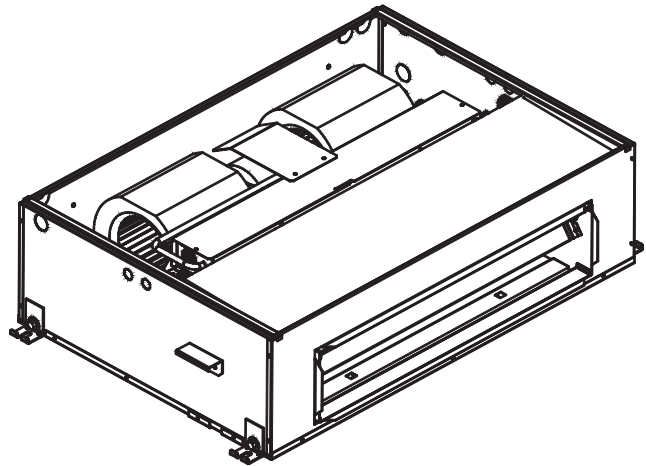
#### WARRANTY\*

- 5 year parts limited warranty

\* Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.



A13303  
**FMU4X & FMU4P – Uncased Horizontal Fan Coil**  
(FMU4P model shown)



A13304  
**FMC4X & FMC4P – Cased Horizontal Fan Coil**  
(Unit pictured upside down)



ISO 9001  
OM-SAI Global



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



| Model          | Size  | Tons  | Nominal BTU | CFM (L/s) | Dimensions H x W x D in. (mm)                  | Ship Wt. lbs. (kg) |
|----------------|-------|-------|-------------|-----------|--|--------------------|
| <b>UNCASED</b> |       |       |             |           |  |                    |
| FMU4X & FMU4P  | 1800  | 1-1/2 | 18,000      | 600(283)  | 10-1/4 x 37-1/4 x 26-3/8<br>(260 x 946 x 670)  | 75 (34)            |
|                | 2400  | 2     | 24,000      | 800(378)  |  | 75 (34)            |
|                | 3000  | 2-1/2 | 30,000      | 1000(472) | 10-1/4 x 49-1/4 x 26-3/8<br>(260 x 1251 x 670) | 93 (42)            |
|                | 3600* | 3     | 36,000      | 1200(566) |  | 93 (42)            |
| <b>CASED</b>   |       |       |             |           |  |                    |
| FMC4X & FMC4P  | 1800  | 1-1/2 | 18,000      | 600(283)  | 11 x 39-3/4 x 27-3/4<br>(282 x 1010 x 704)     | 109 (49)           |
|                | 2400  | 2     | 24,000      | 800(378)  |  | 109 (49)           |
|                | 3000  | 2-1/2 | 30,000      | 1000(472) | 11 x 51-3/4 x 27-3/4<br>(282 x 1315 x 704)     | 135 (61)           |
|                | 3600* | 3     | 36,000      | 1200(566) |  | 135 (61)           |

\* 3600 size in FMU4P and FMC4P product only

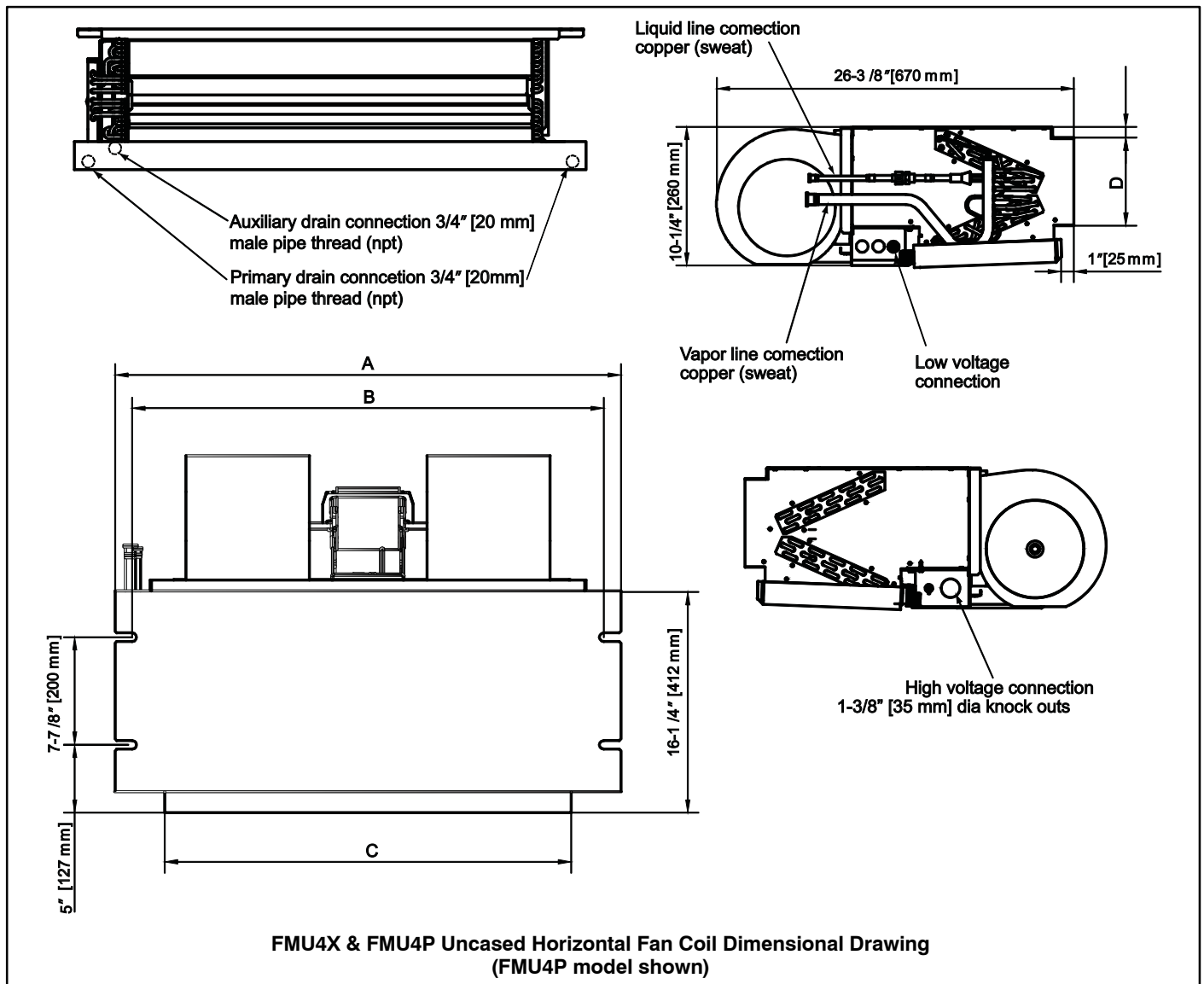
**FAN COIL MODEL NUMBER IDENTIFICATION GUIDE**

|  |          |                       |          |                       |          |                       |          |
|--|----------|-----------------------|----------|-----------------------|----------|-----------------------|----------|
|  | <b>F</b> | <b>M</b>              | <b>A</b> | <b>4</b>              | <b>P</b> | <b>2400</b>           | <b>A</b> |
| F = Fan Coil   |          | TYPE                  |          | INSTALLATION TYPE     |          | REFRIGERANT           |          |
| M = Multi-Family   |          | INSTALLATION TYPE     |          | METERING DEVICE       |          | NOMINAL CAPACITY      |          |
| U = Uncased<br>C = Cased   |          | REFRIGERANT           |          | METERING DEVICE       |          | NOMINAL CAPACITY      |          |
| 4 = Environmentally Sound R-410A   |          | METERING DEVICE       |          | NOMINAL CAPACITY      |          | SALES CODE / FEATURES |          |
| P = R-410A piston<br>X = R-410A TXV Standard   |          | NOMINAL CAPACITY      |          | SALES CODE / FEATURES |          |                       |          |
| 1800 = 18,000 BTUH = 1-1/2 tons<br>2400 = 24,000 BTUH = 2 tons<br>3000 = 30,000 BTUH = 2-1/2 tons<br>3600 = 36,000 BTUH = 3 tons |          | SALES CODE / FEATURES |          |                       |          |                       |          |
| A = Standard   |          |                       |          |                       |          |                       |          |

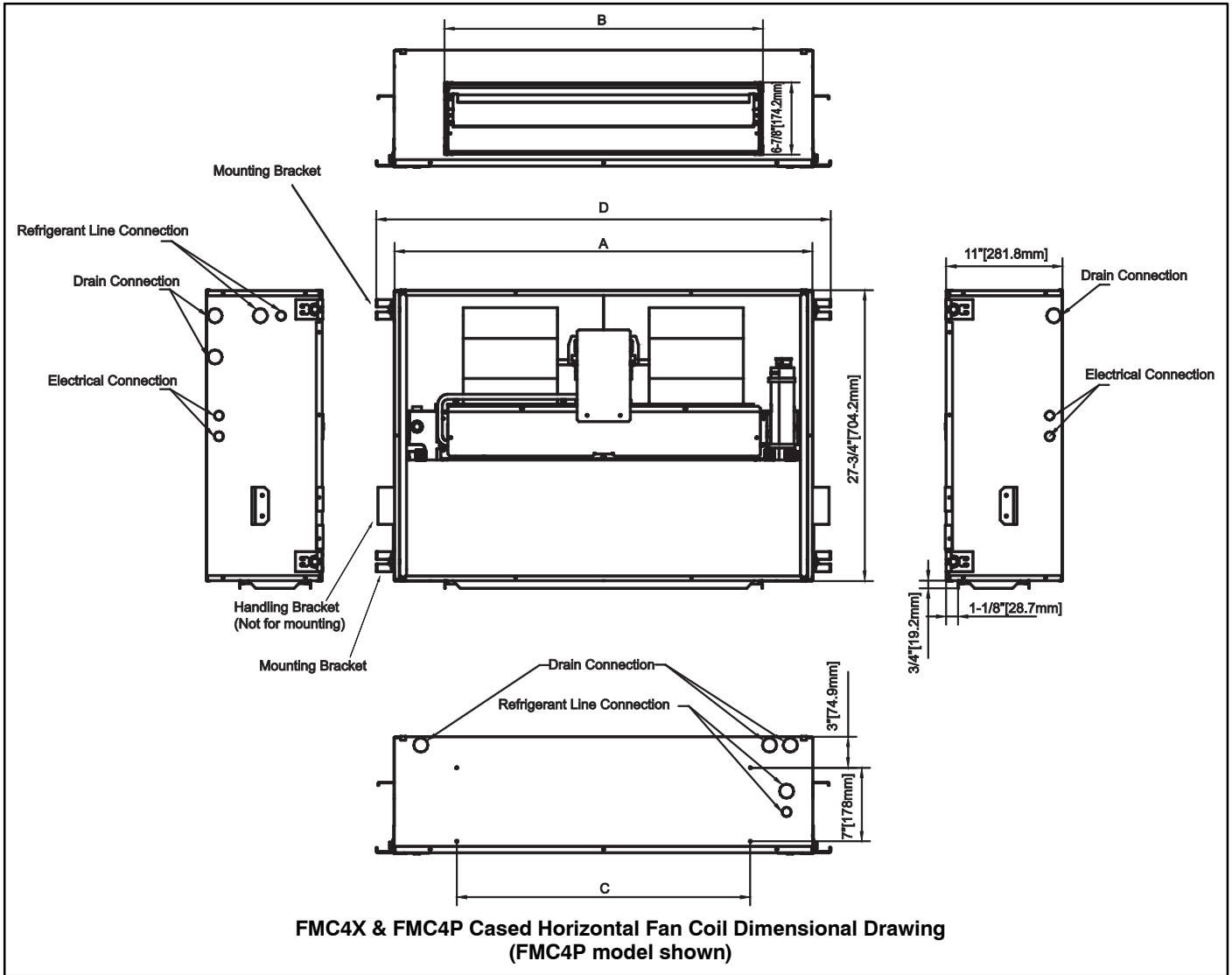
**ELECTRIC HEATER MODEL NUMBER IDENTIFICATION GUIDE**

|  |            |                    |           |          |
|--|------------|--------------------|-----------|----------|
|  | <b>EHK</b> | <b>3</b>           | <b>05</b> | <b>B</b> |
| EHK = Electric Heater Kit              |            | NOMINAL HEAT VALUE |           |          |
| Sales Code                             |            | NOMINAL HEAT VALUE |           |          |
| 05 = 5 kW<br>08 = 7.5 kW<br>10 = 10 kW |            | NOMINAL HEAT VALUE |           |          |
| Engineering Code                       |            |                    |           |          |

**DIMENSIONS**



| Model Size | Dimensions- inches (mm) |                 |           |             | Unit Operating Weight<br>lbs (kg) |
|------------|-------------------------|-----------------|-----------|-------------|-----------------------------------|
|            | "A"                     | "B"             | "C"       | "D"         |                                   |
| 18         | 37-1/4 (946)            | 34-11/16 (881)  | 30 (762)  | 6-1/2 (165) | 75 (34)                           |
| 24         | 37-1/4 (946)            | 34-11/16 (881)  | 30 (762)  | 6-1/2 (165) | 75 (34)                           |
| 30         | 49-1/4 (1251)           | 46-11/16 (1186) | 42 (1067) | 6-1/2 (165) | 93 (42)                           |
| 36         | 49-1/4 (1251)           | 46-11/16 (1186) | 42 (1067) | 6-1/2 (165) | 93 (42)                           |



| Model Size | Dimensions- inches (mm) |               |           |               | Unit Operating Weight<br>lbs (kg) |
|------------|-------------------------|---------------|-----------|---------------|-----------------------------------|
|            | "A"                     | "B"           | "C"       | "D"           |                                   |
| 18         | 39-3/4 (1010)           | 30-3/8 (771)  | 28 (711)  | 43-3/8 (1101) | 109 (49)                          |
| 24         | 39-3/4 (1010)           | 30-3/8 (771)  | 28 (711)  | 43-3/8 (1101) | 109 (49)                          |
| 30         | 51-3/4 (1315)           | 42-3/8 (1076) | 40 (1016) | 55-3/8 (1406) | 135 (61)                          |
| 36         | 51-3/4 (1315)           | 42-3/8 (1076) | 40 (1016) | 55-3/8 (1406) | 135 (61)                          |

| REQUIRED CLEARANCES - ALL MODELS inches (mm) |                  |   |
|--|------------------|---|
| No Heaters                                   | All Sides        | 0 |
|  | From Supply Duct | 0 |
| With Heaters                                 | All Sides        | 0 |
|  | From Supply Duct | 0 |

**PHYSICAL DATA**

| FM(U,C)4P                                      | Unit Size                       |                                 |                                 |                                 |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|  | 18                              | 24                              | 30                              | 36                              |
| Nominal Cooling Capacity (BTUH)                | 18,000                          | 24,000                          | 30,000                          | 36,000                          |
| <b>COIL</b>                                    |                                 |                                 |                                 |                                 |
| R-410A - Refrigerant Metering Device (Piston)* | 50 (1.27mm)                     | 56 (1.42mm)                     | 67 (1.7mm)                      | 69 (1.75mm)                     |
| Coil Configuration                             | A-Coil                          |                                 |                                 |                                 |
| <b>BLOWER &amp; MOTOR</b>                      |                                 |                                 |                                 |                                 |
| Air Discharge                                  | Horizontal                      |                                 |                                 |                                 |
| Blower Type                                    | Dual Blower Direct Drive        |                                 |                                 |                                 |
| CFM (Nominal)                                  | 600                             | 800                             | 1000                            | 1200                            |
| Motor Type                                     | PSC                             | PSC                             | PSC                             | PSC                             |
| Motor HP                                       | 1/8                             | 1/8                             | 1/3                             | 1/3                             |
| Rated RPM                                      | 1075                            | 1075                            | 1600                            | 1600                            |
| Motor Speeds                                   | 3                               | 3                               | 3                               | 3                               |
| <b>FILTER</b>                                  |                                 |                                 |                                 |                                 |
| Field Installed – in. (mm)                     | Qty. 2– 16x20x1<br>(406x508x25) | Qty. 2– 16x20x1<br>(406x508x25) | Qty. 2– 20x20x1<br>(508x508x25) | Qty. 2– 20x20x1<br>(508x508x25) |
| <b>CONNECTIONS (Sweat)</b>                     |                                 |                                 |                                 |                                 |
| Suction – in. (mm)                             | 3/4 in. (19 mm)                 |                                 |                                 |                                 |
| Liquid – in. (mm)                              | 3/8 in. (9.5 mm)                |                                 |                                 |                                 |
| Condensate (MPT) – in. (mm)                    | 3/4 in. (19 mm)                 |                                 |                                 |                                 |
| <b>ELECTRICAL DATA</b>                         |                                 |                                 |                                 |                                 |
| Voltage  | 208/230                         | 208/230                         | 208/230                         | 208/230                         |
| Hertz  | 60                              | 60                              | 60                              | 60                              |
| Minimum Circuit Ampacity                       | 1.32                            | 1.32                            | 2.2                             | 2.2                             |
| Maximum Circuit Protector                      | 15 (A)                          | 15 (A)                          | 15 (A)                          | 15 (A)                          |

\* The piston included with the fan coil is unique to this product and **CANNOT** be replaced with the piston shipped with outdoor unit. Refer to the AHRI ratings to check if your combination can use the piston shipped with the unit or requires an accessory TXV.

| FM(U,C)4X                            | Unit Size                       |                                 |                                 |
|--------------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                      | 18                              | 24                              | 30                              |
| Nominal Cooling Capacity (BTUH)      | 18,000                          | 24,000                          | 30,000                          |
| <b>COIL</b>                          |                                 |                                 |                                 |
| R-410A - Refrigerant Metering Device | R-410A TXV                      |                                 |                                 |
| Coil Configuration                   | A-Coil                          |                                 |                                 |
| <b>BLOWER &amp; MOTOR</b>            |                                 |                                 |                                 |
| Air Discharge                        | Horizontal                      |                                 |                                 |
| Blower Type                          | Dual Blower Direct Drive        |                                 |                                 |
| CFM (Nominal)                        | 600                             | 800                             | 1000                            |
| Motor Type                           | PSC                             | PSC                             | PSC                             |
| Motor HP                             | 1/8                             | 1/8                             | 1/3                             |
| Rated RPM                            | 1075                            | 1075                            | 1600                            |
| Motor Speeds                         | 3                               | 3                               | 3                               |
| <b>FILTER</b>                        |                                 |                                 |                                 |
| Field Installed – in. (mm)           | Qty. 2– 16x20x1<br>(406x508x25) | Qty. 2– 16x20x1<br>(406x508x25) | Qty. 2– 20x20x1<br>(508x508x25) |
| <b>CONNECTIONS (Sweat)</b>           |                                 |                                 |                                 |
| Suction – in. (mm)                   | 3/4 in. (19 mm)                 |                                 |                                 |
| Liquid – in. (mm)                    | 3/8 in. (9.5 mm)                |                                 |                                 |
| Condensate (MPT) – in. (mm)          | 3/4 in. (19 mm)                 |                                 |                                 |
| <b>ELECTRICAL DATA</b>               |                                 |                                 |                                 |
| Voltage                              | 208/230                         | 208/230                         | 208/230                         |
| Hertz                                | 60                              | 60                              | 60                              |
| Minimum Circuit Ampacity             | 1.32                            | 1.32                            | 2.2                             |
| Maximum Circuit Protector            | 15 (A)                          | 15 (A)                          | 15 (A)                          |

**PERFORMANCE DATA**

**AIRFLOW PERFORMANCE (STANDARD CFM)**

Use for Selecting Electric Heat Speed

| Model | Motor Speed | CFM Dry Coil without Filter or Electric Heat |            |           |            |           |            |           |
|-------|-------------|--|------------|-----------|------------|-----------|------------|-----------|
|       |             | External Static Pressure-Inches W.C. (kPa)   |            |           |            |           |            |           |
|       |             | 0 (.0)                                       | 0.05 (.01) | 0.1 (.02) | 0.15 (.04) | 0.2 (.05) | 0.25 (.06) | 0.3 (.07) |
| 18    | Low         | 762  | 724        | 686       | 642        | 598       | 513        | 448       |
|       | Medium      | 1033   | 981        | 932       | 876        | 819       | 735        | 667       |
|       | High        | 1062   | 1007       | 953       | 888        | 825       | 764        | 722       |
| 24    | Low         | 762  | 724        | 686       | 642        | 598       | 513        | 448       |
|       | Medium      | 1033   | 981        | 932       | 876        | 819       | 735        | 667       |
|       | High        | 1062   | 1007       | 953       | 888        | 825       | 764        | 722       |
| 30    | Low         | 1200   | 1152       | 1116      | 1073       | 1039      | 989        | 924       |
|       | Medium      | 1331   | 1285       | 1242      | 1205       | 1165      | 1121       | 1050      |
|       | High        | 1449   | 1402       | 1361      | 1322       | 1284      | 1235       | 1198      |
| 36    | Low         | 1200   | 1152       | 1116      | 1073       | 1039      | 989        | 924       |
|       | Medium      | 1331   | 1285       | 1242      | 1205       | 1165      | 1121       | 1050      |
|       | High        | 1449   | 1402       | 1361      | 1322       | 1284      | 1235       | 1198      |

**AIRFLOW PERFORMANCE (STANDARD CFM)**

Use for Selecting Cooling and Heat Pump Speed

| Model | Motor Speed | CFM Wet Coil without Filter or Electric Heat |            |           |            |           |            |           |
|-------|-------------|--|------------|-----------|------------|-----------|------------|-----------|
|       |             | External Static Pressure-Inches w.c. (kPa)   |            |           |            |           |            |           |
|       |             | 0 (.0)                                       | 0.05 (.01) | 0.1 (.02) | 0.15 (.04) | 0.2 (.05) | 0.25 (.06) | 0.3 (.07) |
| 18    | Low         | 747  | 671        | 623       | 575        | 528       | 469        | 397       |
|       | Medium      | 996  | 912        | 833       | 765        | 683       | 609        | 518       |
|       | High        | 1051   | 974        | 888       | 816        | 742       | 665        | 576       |
| 24    | Low         | 747  | 671        | 623       | 575        | 528       | 469        | 397       |
|       | Medium      | 996  | 912        | 833       | 765        | 683       | 609        | 518       |
|       | High        | 1051   | 974        | 888       | 816        | 742       | 665        | 576       |
| 30    | Low         | 1211   | 1150       | 1069      | 1017       | 958       | 906        | 849       |
|       | Medium      | 1313   | 1261       | 1216      | 1151       | 1105      | 1051       | 984       |
|       | High        | 1428   | 1377       | 1315      | 1244       | 1198      | 1148       | 1089      |
| 36    | Low         | 1211   | 1150       | 1069      | 1017       | 958       | 906        | 849       |
|       | Medium      | 1313   | 1261       | 1216      | 1151       | 1105      | 1051       | 984       |
|       | High        | 1428   | 1377       | 1315      | 1244       | 1198      | 1148       | 1089      |

■ – Shaded boxes represent airflow outside the required 300-450 cfm/ton.

**NOTES:**

1. Airflow data is without filter or electric heat accessory. Heater adds 0.05" static.
2. Use dry coil data for determining electric heater airflow.
3. Use wet coil data for determining cooling airflow.

**REQUIRED CFM RANGE**

| Size | CFM |      |
|------|-----|------|
|      | Min | Max  |
| 18   | 450 | 675  |
| 24   | 600 | 900  |
| 30   | 750 | 1125 |
| 36   | 900 | 1350 |

PERFORMANCE DATA (cont.)

GROSS COOLING CAPACITIES (mbh)

| Unit Size | INDOOR COIL AIR |         | SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C) |     |      |        |     |      |        |     |      |         |     |      |         |     |      |
|-----------|-----------------|---------|--|-----|------|--------|-----|------|--------|-----|------|---------|-----|------|---------|-----|------|
|           |                 |         | 35 (2)   |     |      | 40 (4) |     |      | 45 (7) |     |      | 50 (10) |     |      | 55 (13) |     |      |
|           | CFM             | EWB     | TC   | SHC | BF   | TC     | SHC | BF   | TC     | SHC | BF   | TC      | SHC | BF   | TC      | SHC | BF   |
| 18        | 525             | 72 (22) | 40   | 21  | 0.00 | 36     | 19  | 0.00 | 32     | 17  | 0.01 | 27      | 15  | 0.03 | 22      | 12  | 0.04 |
|           |                 | 67 (19) | 33   | 22  | 0.04 | 29     | 19  | 0.04 | 24     | 17  | 0.04 | 19      | 15  | 0.04 | 14      | 12  | 0.05 |
|           |                 | 62 (17) | 26   | 22  | 0.05 | 22     | 20  | 0.05 | 18     | 17  | 0.05 | 14      | 14  | 0.08 | 12      | 12  | 0.23 |
|           | 600             | 72 (22) | 45   | 24  | 0.00 | 40     | 21  | 0.00 | 35     | 19  | 0.03 | 30      | 16  | 0.04 | 24      | 14  | 0.05 |
|           |                 | 67 (19) | 36   | 24  | 0.05 | 32     | 22  | 0.05 | 27     | 19  | 0.05 | 22      | 16  | 0.06 | 15      | 14  | 0.06 |
|           |                 | 62 (17) | 29   | 24  | 0.06 | 25     | 22  | 0.06 | 20     | 19  | 0.06 | 16      | 16  | 0.09 | 13      | 13  | 0.25 |
|           | 675             | 72 (22) | 49   | 26  | 0.00 | 44     | 23  | 0.00 | 38     | 20  | 0.04 | 32      | 18  | 0.05 | 26      | 15  | 0.06 |
|           |                 | 67 (19) | 40   | 26  | 0.06 | 35     | 24  | 0.06 | 29     | 21  | 0.07 | 23      | 18  | 0.07 | 17      | 15  | 0.07 |
|           |                 | 62 (17) | 32   | 27  | 0.07 | 27     | 24  | 0.07 | 22     | 21  | 0.07 | 17      | 17  | 0.10 | 14      | 14  | 0.26 |
| 24        | 700             | 72 (22) | 54   | 27  | 0.00 | 48     | 25  | 0.00 | 42     | 22  | 0.04 | 36      | 19  | 0.06 | 29      | 16  | 0.06 |
|           |                 | 67 (19) | 44   | 28  | 0.06 | 39     | 25  | 0.07 | 33     | 22  | 0.07 | 26      | 19  | 0.07 | 18      | 16  | 0.07 |
|           |                 | 62 (17) | 35   | 29  | 0.07 | 30     | 26  | 0.07 | 24     | 23  | 0.07 | 19      | 19  | 0.11 | 16      | 16  | 0.26 |
|           | 800             | 72 (22) | 59   | 30  | 0.00 | 53     | 27  | 0.01 | 47     | 24  | 0.06 | 39      | 21  | 0.07 | 31      | 18  | 0.08 |
|           |                 | 67 (19) | 48   | 31  | 0.08 | 42     | 28  | 0.08 | 36     | 25  | 0.08 | 28      | 21  | 0.09 | 20      | 18  | 0.09 |
|           |                 | 62 (17) | 39   | 32  | 0.09 | 33     | 28  | 0.09 | 26     | 25  | 0.09 | 22      | 22  | 0.13 | 18      | 18  | 0.28 |
|           | 900             | 72 (22) | 64   | 33  | 0.00 | 57     | 30  | 0.03 | 50     | 26  | 0.07 | 43      | 23  | 0.09 | 34      | 19  | 0.09 |
|           |                 | 67 (19) | 52   | 34  | 0.09 | 46     | 30  | 0.10 | 39     | 27  | 0.10 | 31      | 23  | 0.10 | 22      | 20  | 0.10 |
|           |                 | 62 (17) | 42   | 35  | 0.10 | 35     | 31  | 0.10 | 29     | 28  | 0.10 | 24      | 24  | 0.15 | 20      | 20  | 0.29 |
| 30        | 875             | 72 (22) | 64   | 31  | 0.04 | 59     | 29  | 0.05 | 53     | 26  | 0.05 | 45      | 23  | 0.06 | 37      | 20  | 0.06 |
|           |                 | 67 (19) | 53   | 33  | 0.06 | 48     | 31  | 0.06 | 41     | 28  | 0.06 | 34      | 25  | 0.06 | 25      | 21  | 0.06 |
|           |                 | 62 (17) | 43   | 35  | 0.06 | 38     | 32  | 0.06 | 32     | 30  | 0.06 | 27      | 27  | 0.14 | 23      | 23  | 0.28 |
|           | 1000            | 72 (22) | 69   | 34  | 0.05 | 63     | 31  | 0.06 | 57     | 28  | 0.07 | 49      | 25  | 0.07 | 40      | 22  | 0.07 |
|           |                 | 67 (19) | 57   | 36  | 0.07 | 51     | 33  | 0.07 | 44     | 30  | 0.07 | 36      | 27  | 0.07 | 27      | 24  | 0.07 |
|           |                 | 62 (17) | 47   | 38  | 0.07 | 41     | 36  | 0.07 | 34     | 33  | 0.08 | 30      | 30  | 0.17 | 25      | 25  | 0.30 |
|           | 1100            | 72 (22) | 72   | 35  | 0.07 | 66     | 33  | 0.07 | 59     | 30  | 0.08 | 51      | 27  | 0.08 | 42      | 23  | 0.08 |
|           |                 | 67 (19) | 60   | 38  | 0.08 | 54     | 35  | 0.08 | 46     | 32  | 0.08 | 38      | 29  | 0.08 | 29      | 25  | 0.08 |
|           |                 | 62 (17) | 49   | 41  | 0.08 | 43     | 38  | 0.08 | 37     | 36  | 0.09 | 32      | 32  | 0.19 | 27      | 27  | 0.31 |
| 36        | 1050            | 72 (22) | 69   | 34  | 0.06 | 63     | 32  | 0.07 | 56     | 29  | 0.07 | 49      | 26  | 0.08 | 40      | 22  | 0.08 |
|           |                 | 67 (19) | 57   | 37  | 0.08 | 51     | 34  | 0.08 | 44     | 31  | 0.08 | 36      | 28  | 0.08 | 27      | 24  | 0.08 |
|           |                 | 62 (17) | 46   | 39  | 0.08 | 40     | 37  | 0.08 | 34     | 34  | 0.08 | 30      | 30  | 0.18 | 25      | 25  | 0.30 |
|           | 1200            | 72 (22) | 73   | 36  | 0.08 | 67     | 34  | 0.08 | 60     | 31  | 0.09 | 52      | 28  | 0.09 | 42      | 24  | 0.09 |
|           |                 | 67 (19) | 61   | 40  | 0.09 | 54     | 37  | 0.09 | 47     | 34  | 0.10 | 39      | 30  | 0.10 | 29      | 27  | 0.09 |
|           |                 | 62 (17) | 50   | 43  | 0.09 | 43     | 40  | 0.09 | 37     | 37  | 0.10 | 33      | 33  | 0.21 | 28      | 28  | 0.33 |
|           | 1350            | 72 (22) | 77   | 39  | 0.10 | 71     | 36  | 0.10 | 63     | 33  | 0.10 | 55      | 30  | 0.11 | 45      | 26  | 0.11 |
|           |                 | 67 (19) | 64   | 42  | 0.11 | 57     | 40  | 0.11 | 50     | 36  | 0.11 | 41      | 33  | 0.11 | 31      | 29  | 0.11 |
|           |                 | 62 (17) | 52   | 46  | 0.11 | 46     | 43  | 0.11 | 41     | 41  | 0.13 | 36      | 36  | 0.24 | 30      | 30  | 0.35 |

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

SENSIBLE CAPACITY (SHC) CORRECTION FACTOR

| BYPASS FACTOR     | ENTERING AIR DRY-BULB TEMPERATURE (°F) |      |      |      |      |                         |
|-------------------|--|------|------|------|------|-------------------------|
|                   | 79                                     | 78   | 77   | 76   | 75   | Under 75                |
|                   | 81                                     | 82   | 83   | 84   | 85   | Over 85                 |
|                   | ENTERING AIR DRY-BULB TEMPERATURE (°C) |      |      |      |      |                         |
|                   | 26                                     | 25   | 25   | 24   | 24   | Under 75                |
|                   | 27                                     | 28   | 28   | 29   | 29   | Over 85                 |
| Correction Factor |  |      |      |      |      |                         |
| 0.10              | .098                                   | 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 x (1 – BF) x (db – 80)

**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. Direct interpolation is permissible. Do not extrapolate.

3. SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
4. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

**ESTIMATED SOUND POWER LEVEL (dBA)**

| UNIT SIZE | CONDITIONS |                     | OCTAVE BAND CENTER FREQUENCY |      |      |      |      |      |      |
|-----------|------------|---------------------|------------------------------|------|------|------|------|------|------|
|           | CFM        | Ext Static Pressure | 63                           | 125  | 250  | 500  | 1000 | 2000 | 4000 |
| 18        | 600        | 0.18                | 47.9                         | 51.6 | 46.6 | 49.6 | 47.6 | 38.7 | 34.7 |
| 24        | 800        | 0.18                | 47.9                         | 51.3 | 50.7 | 51.1 | 46.9 | 41.6 | 35.7 |
| 30        | 1000       | 0.24                | 47.9                         | 55.7 | 50   | 54.3 | 51.9 | 43.8 | 39.3 |
| 36        | 1200       | 0.24                | 47.9                         | 55.6 | 49.2 | 53.1 | 49.6 | 43.4 | 38.2 |

\* Estimated sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, Chapter 52, p. 52.7.

**OPTIONAL FIELD-INSTALLED ELECTRIC HEAT PACKAGES**

| HEATER PART NUMBER WITH TDR | SIZES USED WITH | NOMINAL kw @ 240V | HEATER VOLTS-PHASE (60 Hz) | HEATER CAPACITY (MBH) |      | MIN. CIRCUIT AMPACITY |      | MAX. FUSE OR BREAKER (HACR) AMPACITY |     | APPROX. SHIP WGT. LBS. (kg) |
|-----------------------------|-----------------|-------------------|----------------------------|-----------------------|------|-----------------------|------|--------------------------------------|-----|-----------------------------|
|                             |                 |                   |                            | 208                   | 240  | 208                   | 240  | 208                                  | 240 |                             |
| EHK305B                     | All             | 5                 | 208/240-1                  | 12.8                  | 17.1 | 22.6                  | 26.0 | 30                                   | 30  | 10 (4.5)                    |
| EHK308B                     | All             | 7.5               | 208/240-1                  | 20.5                  | 27.3 | 36.1                  | 41.7 | 50                                   | 50  | 10 (4.5)                    |
| EHK310B                     | All             | 10                | 208/240-1                  | 25.7                  | 34.2 | 45.1                  | 52.1 | 60                                   | 60  | 10 (4.5)                    |

**OTHER ACCESSORIES**

| Kit Number  | Description                             | Used on sizes  |
|-------------|---|----------------|
| NASA00101GF | Louvered Panel with Filter Rack - Small | 18, 24         |
| NASA00201GF | Louvered Panel with Filter Rack - Large | 30, 36         |
| NASA00101CC | Access Panel - Small                    | 18, 24         |
| NASA00201CC | Access Panel - Large                    | 30, 36         |
| NAEA20101TX | TXV Kit R-22                            | 18, 24, 30, 36 |
| NAEA40501TX | TXV Kit R-410A                          | 18, 24, 30     |
| NAEA40601TX | TXV Kit R-410A                          | 36             |
| EBAC01CTK   | PVC Condensate Trap Kit (50 pack)       | All            |