

# EHD4X Product Specifications

## CASED HORIZONTAL DUCT COILS ENVIRONMENTALLY SOUND R-410A SYSTEMS 2 THRU 5 TONS

### FEATURES

- Horizontal, bi-directional airflow
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- Slide-out feature for easy cleaning
- Copper tube / aluminum fin slab coil
- Pre-painted steel cabinet

### AVAILABLE WITH TIN COATED COPPER TUBING

- Model numbers ending in "AT" have industry exclusive tin coated copper main tubing for additional corrosion protection

### WARRANTY\*

- 5 year parts limited warranty
  - With timely registration, an additional 5 year parts limited warranty
- \* Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.



Tin



Aluminum

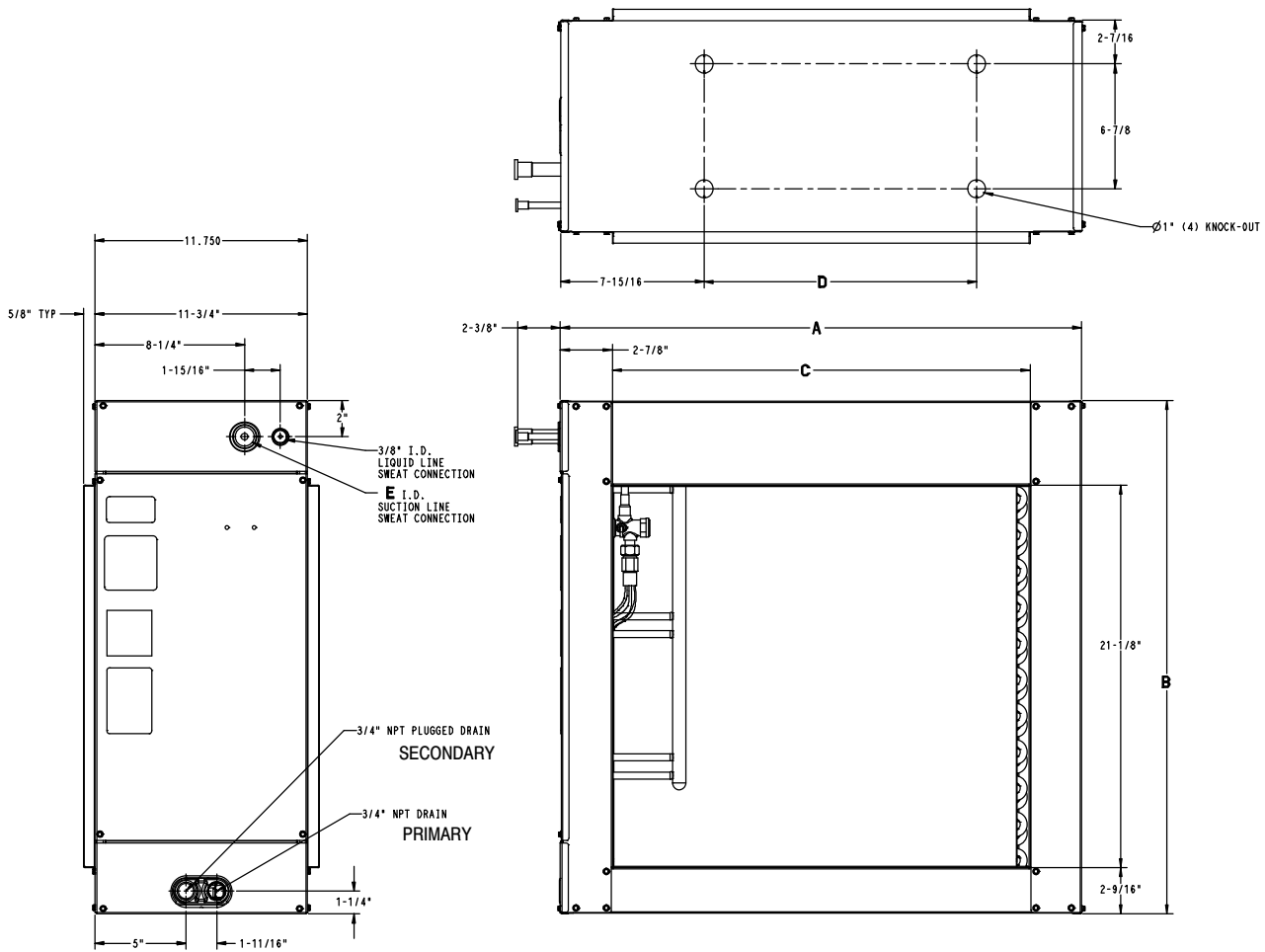


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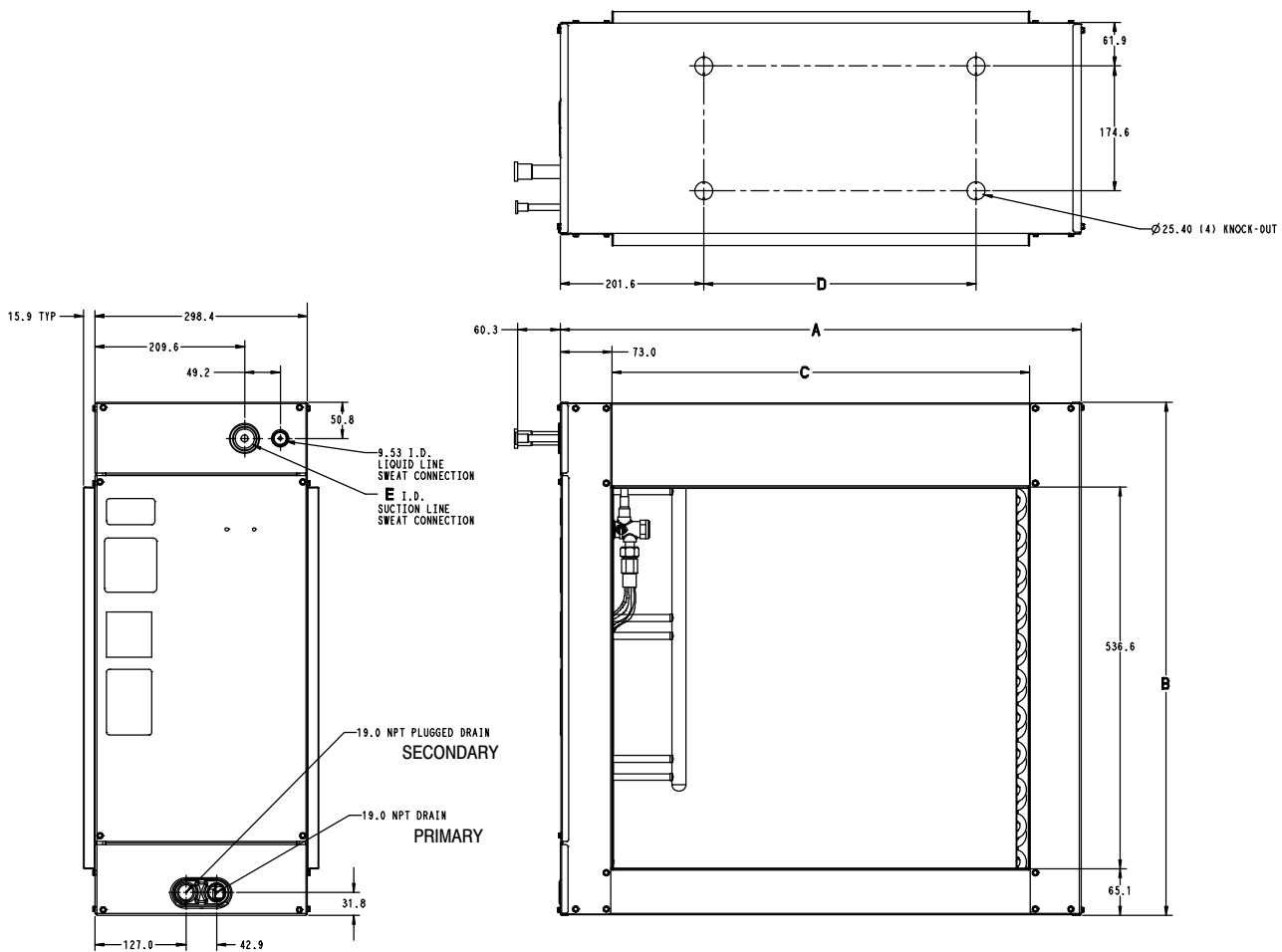
| Model     | Size (tons)                   | Dimensions<br>H x W x D in. (mm)   | Shipping Weight lbs. (kg) |
|-----------|-------------------------------|--|---------------------------|
| EHD4X24AA | 2                             | 28 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>4</sub> x 24 <sup>1</sup> / <sub>16</sub> (721 x 298 x 611)  | 53 (24)                   |
| 24AAT     |                               | Tin Coated Copper  | 55 (25)                   |
| 24AAL1    |                               | Aluminum   | 53 (24.0)                 |
| EHD4X30AA | 2 <sup>1</sup> / <sub>2</sub> | 28 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>4</sub> x 24 <sup>1</sup> / <sub>16</sub> (721 x 298 x 611)  | 54 (25)                   |
| 30AAT     |                               | Tin Coated Copper  | 56 (25)                   |
| 30AAL1    |                               | Aluminum   | 54 (24.5)                 |
| EHD4X36AA | 3                             | 28 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>4</sub> x 28 <sup>13</sup> / <sub>16</sub> (721 x 298 x 732) | 61 (27)                   |
| 36AAT     |                               | Tin Coated Copper  | 61 (28)                   |
| 36AAL1    |                               | Aluminum   | 60.5 (27.4)               |
| EHD4X42AA | 3 <sup>1</sup> / <sub>2</sub> | 28 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>4</sub> x 28 <sup>13</sup> / <sub>16</sub> (721 x 298 x 732) | 62 (28)                   |
| 42AAT     |                               | Tin Coated Copper  | 63 (29)                   |
| 42AAL1    |                               | Aluminum   | 62 (28.1)                 |
| EHD4X48AA | 4                             | 30 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>4</sub> x 28 <sup>13</sup> / <sub>16</sub> (772 x 298 x 732) | 64 (29)                   |
| 48AAT     |                               | Tin Coated Copper  | 65 (30)                   |
| 48AAL1    |                               | Aluminum   | 64 (29)                   |
| EHD4X60AA | 5                             | 30 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>4</sub> x 38 <sup>15</sup> / <sub>16</sub> (772 x 298 x 989) | 81 (37)                   |
| 60AAT     |                               | Tin Coated Copper  | 83 (37)                   |
| 60AAL1    |                               | Aluminum   | 80.5 (36.5)               |

Specifications subject to change without notice.



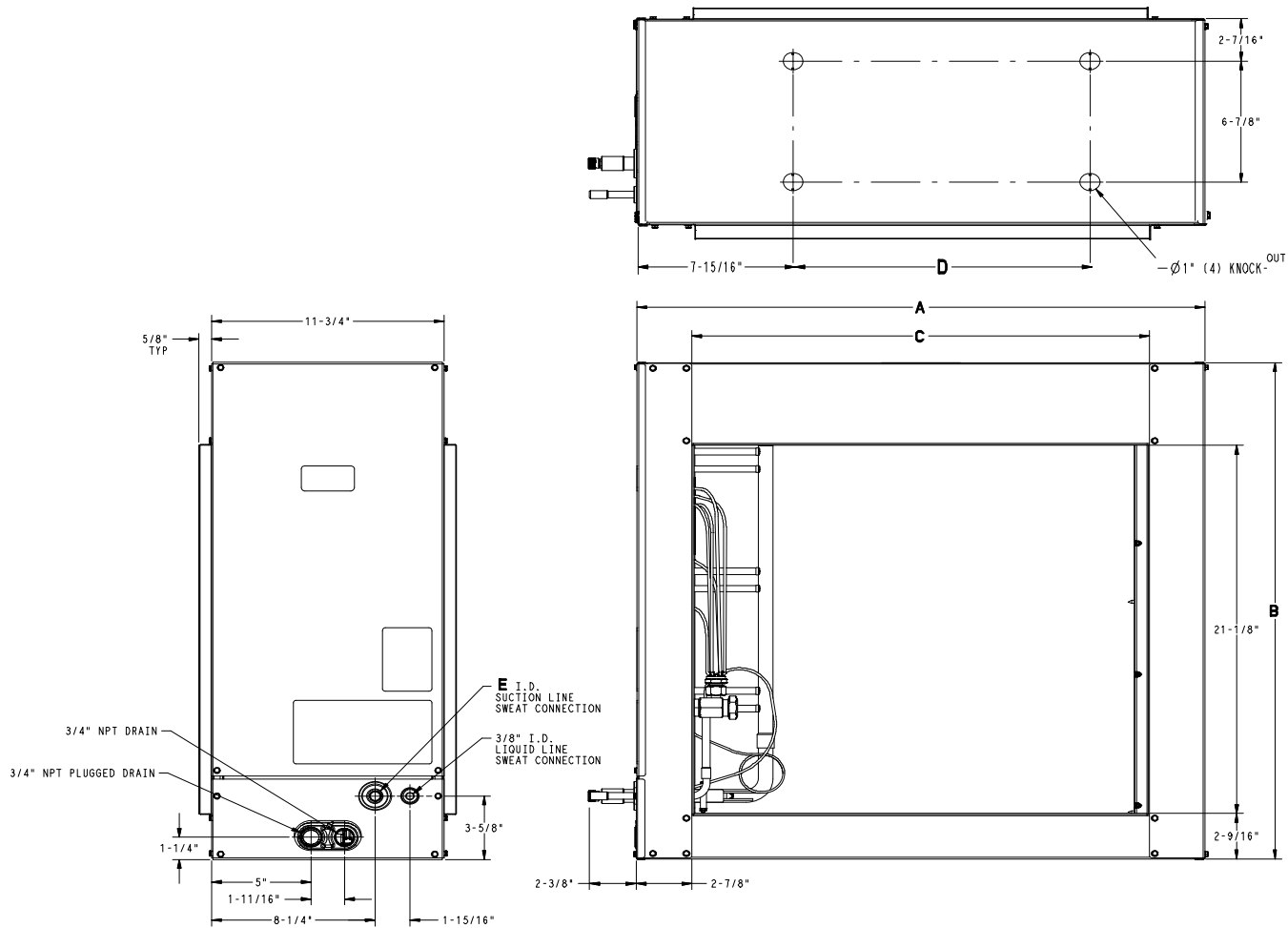
Dimensions Inches (English)

| Model Size | A                                | B                              | C                                | D                                | E   |
|------------|----------------------------------|--------------------------------|----------------------------------|----------------------------------|-----|
| 24AAT      | 24 <sup>1</sup> / <sub>16</sub>  | 28 <sup>3</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>16</sub>  | 9 <sup>3</sup> / <sub>8</sub>    | 5/8 |
| 30AAT      | 24 <sup>1</sup> / <sub>16</sub>  | 28 <sup>3</sup> / <sub>8</sub> | 16 <sup>1</sup> / <sub>16</sub>  | 9 <sup>3</sup> / <sub>8</sub>    | 3/4 |
| 36AAT      | 28 <sup>13</sup> / <sub>16</sub> | 28 <sup>3</sup> / <sub>8</sub> | 23 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>16</sub>  | 3/4 |
| 42AAT      | 28 <sup>13</sup> / <sub>16</sub> | 28 <sup>3</sup> / <sub>8</sub> | 23 <sup>1</sup> / <sub>16</sub>  | 15 <sup>1</sup> / <sub>16</sub>  | 3/4 |
| 48AAT      | 28 <sup>13</sup> / <sub>16</sub> | 30 <sup>3</sup> / <sub>8</sub> | 23 <sup>1</sup> / <sub>16</sub>  | 17 <sup>5</sup> / <sub>8</sub>   | 7/8 |
| 60AAT      | 38 <sup>15</sup> / <sub>16</sub> | 30 <sup>3</sup> / <sub>8</sub> | 33 <sup>13</sup> / <sub>16</sub> | 24 <sup>13</sup> / <sub>16</sub> | 7/8 |



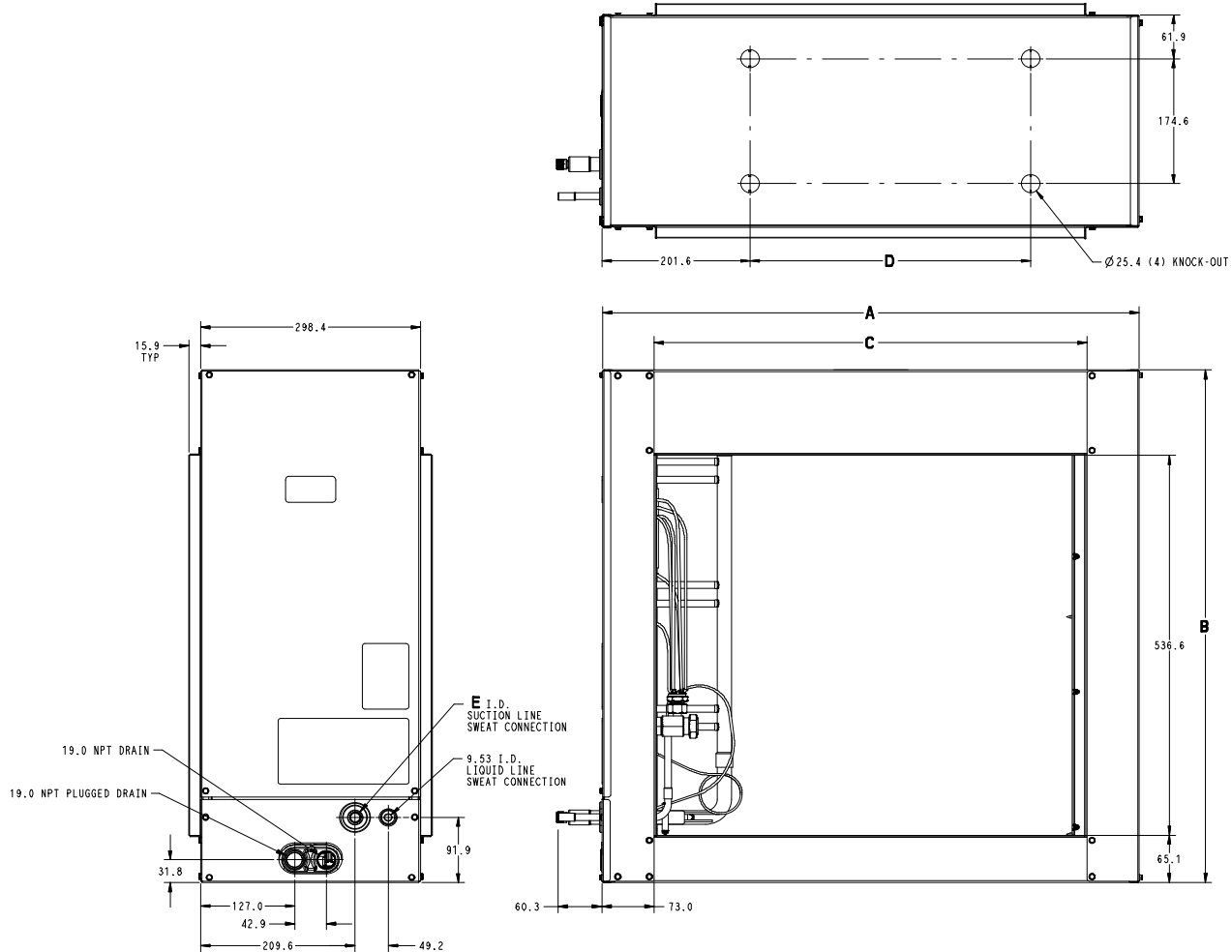
Dimensions mm (SI Metric)

| Model Size | A   | B   | C   | D   | E  |
|------------|-----|-----|-----|-----|----|
| 24AAT      | 611 | 721 | 408 | 238 | 16 |
| 30AAT      | 611 | 721 | 408 | 238 | 19 |
| 36AAT      | 732 | 721 | 586 | 383 | 19 |
| 42AAT      | 732 | 721 | 586 | 383 | 19 |
| 48AAT      | 732 | 772 | 586 | 448 | 22 |
| 60AAT      | 989 | 772 | 859 | 630 | 22 |



Dimensions Inches (English)

| Model Size | A                 | B               | C                 | D                 | E             |
|------------|-------------------|-----------------|-------------------|-------------------|---------------|
| 24AAL      | $24\frac{1}{16}$  | $28\frac{3}{8}$ | $16\frac{1}{16}$  | $9\frac{3}{8}$    | $\frac{5}{8}$ |
| 30AAL      | $24\frac{1}{16}$  | $28\frac{3}{8}$ | $16\frac{1}{16}$  | $9\frac{3}{8}$    | $\frac{3}{4}$ |
| 36AAL      | $28\frac{13}{16}$ | $28\frac{3}{8}$ | $23\frac{1}{16}$  | $15\frac{1}{16}$  | $\frac{3}{4}$ |
| 42AAL      | $28\frac{13}{16}$ | $28\frac{3}{8}$ | $23\frac{1}{16}$  | $15\frac{1}{16}$  | $\frac{3}{4}$ |
| 48AAL      | $28\frac{13}{16}$ | $30\frac{3}{8}$ | $23\frac{1}{16}$  | $17\frac{5}{8}$   | $\frac{7}{8}$ |
| 60AAL      | $38\frac{15}{16}$ | $30\frac{3}{8}$ | $33\frac{13}{16}$ | $24\frac{13}{16}$ | $\frac{7}{8}$ |



Dimensions mm (SI Metric)

| Model Size | A     | B     | C     | D     | E     |
|------------|-------|-------|-------|-------|-------|
| 24AAL      | 611.2 | 720.7 | 408.0 | 238.1 | 15.88 |
| 30AAL      | 611.2 | 720.7 | 408.0 | 238.1 | 19.05 |
| 36AAL      | 731.8 | 720.7 | 585.8 | 382.6 | 19.05 |
| 42AAL      | 731.8 | 720.7 | 585.8 | 382.6 | 19.05 |
| 48AAL      | 731.8 | 771.5 | 585.8 | 439.8 | 22.23 |
| 60AAL      | 989.0 | 771.5 | 855.8 | 630.2 | 22.23 |

| PHYSICAL DATA   |  |                         |                         |                         |                         |                        |
|---|--|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
|   | Model Size   |                         |                         |                         |                         |                        |
|   | 24   | 30                      | 36                      | 42                      | 48                      | 60                     |
| <b>TXV factory installed, hard shut-off, bi-flow type for heat pump application, non-adjustable superheat</b> |  |                         |                         |                         |                         |                        |
| R-410A TXV Size   | 2 ton  |                         | 3 ton                   | 4 ton                   | 5 ton                   |                        |
| TXV Connections   | TXV-to-coil = Bolt-on 3/4-20 UNF straight thread (factory assembled) |                         |                         |                         |                         |                        |
|   | field line set to TXV = 3/8" (10mm) sweat (female)                   |                         |                         |                         |                         |                        |
|   | equalizer-to-coil = brazed in (factory brazed)                       |                         |                         |                         |                         |                        |
| <b>Nominal Acceptable CFM Range</b>   |  |                         |                         |                         |                         |                        |
| CFM (L/s) – min   | 700 (330)  | 875 (413)               | 1050 (496)              | 1225 (578)              | 1400 (661)              | 1750 (826)             |
| CFM (L/s) – max   | 900 (425)  | 1125 (531)              | 1350 (637)              | 1575 (743)              | 1800 (850)              | 2000 (944)             |
| <b>Coil Data (all coils 1 slab, lanced sine wave bare aluminum fin)</b>                                       |  |                         |                         |                         |                         |                        |
| Face Area ft <sup>2</sup> (m <sup>2</sup> )   | 2.98 (0.28)  | 3.34 (0.31)             | 4.02 (0.37)             | 4.42 (0.41)             | 4.76 (0.44)             | 6.22 (0.58)            |
| Slab H x W in. (mm)   | 26 x 16½<br>(660 x 419)  | 26 x 18½<br>(660 x 470) | 26 x 22¼<br>(660 x 565) | 26 x 24½<br>(660 x 622) | 28 x 24½<br>(711 x 622) | 28 x 32<br>(711 x 813) |
| Fins Per Inch   | 15   | 14                      | 15                      | 15                      | 15                      | 14                     |
| <b>Refrigerant Line Connections (sweat)</b>   |  |                         |                         |                         |                         |                        |
| Liquid in. (mm)   | 3/8 (10)   | 3/8 (10)                | 3/8 (10)                | 3/8 (10)                | 3/8 (10)                | 3/8 (10)               |
| Suction in. (mm)  | 5/8 (16)   | 3/4 (19)                | 3/4 (19)                | 7/8 (22)                | 7/8 (22)                | 7/8 (22)               |

| ACCESSORIES                         |             |
|-------------------------------------|-------------|
| Description                         | Part Number |
| Fossil Fuel Kit                     | AXWR01DFB   |
| PVC Condensate Trap Kit (box of 50) | EBAC01CTK   |

| STATIC PRESSURE DROP ACROSS COIL AT A GIVEN CFM |                 |  |       |              |                 |  |       |
|---|-----------------|--|-------|--------------|-----------------|--|-------|
| Coil Size                                       | CFM Across Coil | Static Pressure Drop Across Coil (Inches Water Column) |       | Coil Size    | CFM Across Coil | Static Pressure Drop Across Coil (Inches Water Column) |       |
|   |                 | Dry  | Wet   |              |                 | Dry  | Wet   |
| 24<br>2 tons                                    | 400             | 0.060  | 0.069 | 48<br>4 tons | 600             | 0.063  | 0.080 |
|   | 500             | 0.081  | 0.096 |              | 700             | 0.076  | 0.101 |
|   | 600             | 0.104  | 0.129 |              | 800             | 0.091  | 0.123 |
|   | 700             | 0.129  | 0.162 |              | 900             | 0.105  | 0.149 |
|   | 800             | 0.155  | 0.198 |              | 1000            | 0.121  | 0.175 |
|   | 900             | 0.186  | 0.237 |              | 1100            | 0.138  | 0.206 |
|   | 1000            | 0.217  | 0.278 |              | 1200            | 0.157  | 0.215 |
| 30<br>2½ tons                                   | 400             | 0.044  | 0.050 |              | 1300            | 0.175  | 0.231 |
|   | 500             | 0.060  | 0.071 |              | 1400            | 0.195  | 0.261 |
|   | 600             | 0.077  | 0.093 |              | 1500            | 0.217  | 0.291 |
|   | 700             | 0.097  | 0.116 |              | 1600            | 0.238  | 0.325 |
|   | 800             | 0.116  | 0.144 |              | 1700            | 0.260  | 0.361 |
|   | 900             | 0.140  | 0.172 |              | 1800            | 0.284  | 0.394 |
|   | 1000            | 0.165  | 0.203 |              | 60<br>5 tons    | 800  | 0.051 |
| 1100  | 0.190           | 0.235  | 900   | 0.060        |                 | 0.076  |       |
| 1200  | 0.219           | 0.269  | 1000  | 0.069        |                 | 0.089  |       |
| 36<br>3 tons                                    | 400             | 0.043  | 0.048 | 1100         |                 | 0.079  | 0.102 |
|   | 500             | 0.058  | 0.066 | 1200         |                 | 0.090  | 0.118 |
|   | 600             | 0.074  | 0.086 | 1300         |                 | 0.101  | 0.135 |
|   | 700             | 0.089  | 0.104 | 1400         |                 | 0.113  | 0.155 |
|   | 800             | 0.107  | 0.128 | 1500         |                 | 0.125  | 0.175 |
|   | 900             | 0.127  | 0.154 | 1600         |                 | 0.138  | 0.193 |
|   | 1000            | 0.150  | 0.182 | 1700         |                 | 0.153  | 0.214 |
|   | 1100            | 0.172  | 0.212 | 1800         |                 | 0.165  | 0.235 |
|   | 1200            | 0.197  | 0.245 | 1900         | 0.180           | 0.258  |       |
|   | 1300            | 0.224  | 0.280 | 2000         | 0.195           | 0.279  |       |
| 42<br>3½ tons                                   | 1400            | 0.252  | 0.317 |              |                 |  |       |
|   | 600             | 0.065  | 0.076 |              |                 |  |       |
|   | 700             | 0.079  | 0.094 |              |                 |  |       |
|   | 800             | 0.095  | 0.114 |              |                 |  |       |
|   | 900             | 0.113  | 0.137 |              |                 |  |       |
|   | 1000            | 0.134  | 0.163 |              |                 |  |       |
|   | 1100            | 0.154  | 0.189 |              |                 |  |       |
|   | 1200            | 0.176  | 0.215 |              |                 |  |       |
|   | 1300            | 0.197  | 0.245 |              |                 |  |       |
|   | 1400            | 0.220  | 0.273 |              |                 |  |       |
| 1500  | 0.246           | 0.303  |       |              |                 |  |       |
| 1600  | 0.268           | 0.332  |       |              |                 |  |       |

| COIL MODEL NUMBER IDENTIFICATION GUIDE                           |          |             |                    |                        |          |                         |              |                              |          |
|--|----------|-------------|--------------------|------------------------|----------|-------------------------|--------------|------------------------------|----------|
|  | <b>E</b> | <b>H</b>    | <b>D</b>           | <b>4</b>               | <b>X</b> | <b>24</b>               | <b>A</b>     | <b>A</b>                     | <b>1</b> |
| E = Evaporator   |          |             |                    |                        |          |                         |              |                              |          |
| H = Horizontal   |          | <b>TYPE</b> |                    |                        |          |                         |              |                              |          |
| D = Duct   |          |             | <b>APPLICATION</b> |                        |          |                         |              |                              |          |
| 4 = Environmentally Sound R-410A                                 |          |             |                    | <b>REFRIGERANT</b>     |          |                         |              |                              |          |
| X = TXV  |          |             |                    | <b>METERING DEVICE</b> |          |                         |              |                              |          |
| 24 = 24,000 BTUH = 2 tons  |          |             |                    |                        |          |                         |              |                              |          |
| 30 = 30,000 BTUH = 2½ tons                                       |          |             |                    |                        |          |                         |              |                              |          |
| 36 = 36,000 BTUH = 3 tons  |          |             |                    |                        |          |                         |              |                              |          |
| 42 = 42,000 BTUH = 3½ tons                                       |          |             |                    |                        |          |                         |              |                              |          |
| 48 = 48,000 BTUH = 4 tons  |          |             |                    |                        |          |                         |              |                              |          |
| 60 = 60,000 BTUH = 5 tons  |          |             |                    |                        |          | <b>NOMINAL CAPACITY</b> |              |                              |          |
| A = 11.8" (298mm)  |          |             |                    |                        |          |                         | <b>WIDTH</b> |                              |          |
| A = Standard   |          |             |                    |                        |          |                         |              |                              |          |
| AT = Tin Coated Copper Tubes for Additional Corrosion Protection |          |             |                    |                        |          |                         |              |                              |          |
| AL = Aluminum  |          |             |                    |                        |          |                         |              | <b>SALES CODE / FEATURES</b> |          |
| Engineering Revision   |          |             |                    |                        |          |                         |              |                              |          |