



# ***Turbo air***

**UNIT COOLERS  
CONDENSING UNITS  
PACKAGE UNITS**

BEST QUALITY & PRICE  
GREAT CUSTOMER SERVICE  
QUICK DELIVERY FROM  
13 LOCATIONS

**[www.turboairinc.net](http://www.turboairinc.net)  
888-900-1002**

# Why Turbo Air?

Quality Products  
Competitive Price  
Prompt Service

**Best Customer Experience**



**Turbo Air is committed to your success,  
every step of the way**

- C** **Cost** Competitive Price + Freight Advantage
- D** **Delivery - Lead Time** 1 Day Delivery (11 Locations)
- Q** **Quality** Full Option Cutting Edge Design
- S** **Service** Quick Action, Saving Time (Universal Replacement Parts)



**Refrigeration Reinvented** REFRIGERATION SYSTEM **Turbo air**

Toll Free. 1-888-900-1002 Fax. 1-310-900-1088 [tacsvc@turboairinc.com](mailto:tacsvc@turboairinc.com)

# Sales & Service Contacts



One call  
brings you  
a **thousand**  
solutions with



## Primary Contact Information

### Turbo Air, Corp Refrigeration System Division

---

4184 E. Conant St., Long Beach, CA 90808  
Toll Free (Sales & Warranty Service): 888-900-1002  
Centralized e-mail: [Tacsvc@turboairinc.com](mailto:Tacsvc@turboairinc.com)  
Fax: 310-900-1088

### Customer Service & Inside Sales

---

|                 |              |                                                                      |
|-----------------|--------------|----------------------------------------------------------------------|
| Lorena Vargas   | 310-900-1014 | <a href="mailto:Lorena@turboairinc.com">Lorena@turboairinc.com</a>   |
| Karina Gonzalez | 310-900-1039 | <a href="mailto:Karina@turboairinc.com">Karina@turboairinc.com</a>   |
| Jocelin Reveles | 310-900-1045 | <a href="mailto:Jocelin@turboairinc.com">Jocelin@turboairinc.com</a> |
| Marlene Amezcua | 310-900-1005 | <a href="mailto:Marlene@turboairinc.com">Marlene@turboairinc.com</a> |

### Tech Support & Parts

---

|              |              |                                                                        |
|--------------|--------------|------------------------------------------------------------------------|
| Luis Jimenez | 310-900-1087 | <a href="mailto:Ljimenez@turboairinc.com">Ljimenez@turboairinc.com</a> |
|--------------|--------------|------------------------------------------------------------------------|

### National Sales Director

---

|               |              |                                                                      |
|---------------|--------------|----------------------------------------------------------------------|
| Michael Layne | 786-512-7172 | <a href="mailto:Michael@turboairinc.com">Michael@turboairinc.com</a> |
|---------------|--------------|----------------------------------------------------------------------|

### General Manager

---

|            |              |                                                                    |
|------------|--------------|--------------------------------------------------------------------|
| Jason Jung | 310-502-2772 | <a href="mailto:Jasonj@turboairinc.com">Jasonj@turboairinc.com</a> |
|------------|--------------|--------------------------------------------------------------------|

\* Should you have any question, please feel free to contact any of our team members above.

# Branch / Distribution Locations

Immediate, reliable delivery nationwide

## HAWAII



179 Sand Island Access Rd. #B  
Honolulu, HI 96819

## OAKLAND



1617 Whipple Rd. Suite A  
Hayward, CA 94544

## SEATTLE



2515 142nd Ave. E., Sumner  
WA 98390

## DENVER



3650 Fraser St. Unit C, Aurora  
CO 80011

## ★ HOUSTON



4300 N. Sam Houston Pkwy. W. #410  
Houston, TX 77086

## DALLAS



1800 S. Great Southwest Pkwy.  
Grand Prairie, TX 75051

## CHICAGO



1213 Lakeview Drive. Romeoville,  
IL 60446

## CINCINNATI



12080 Best Place, Sharonville  
OH 45241

## ★ ATLANTA



5345 Buford Highway, Norcross  
GA 30071

## ★ NEW JERSEY



10 Basin Dr. Suite 110  
Kearny, NJ 07032

## PITTSBURGH



201 Locust St. Suite B2  
Youngwood, PA 15697

## ★ MIAMI

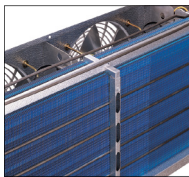


2701 SW 145th Ave. Suite 220  
Miramar, FL 33027

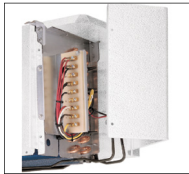
# LOW PROFILE UNIT COOLERS



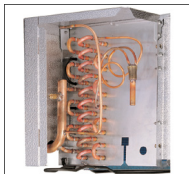
## LOW PROFILE UNIT COOLER STANDARD FEATURES



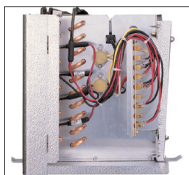
- Blue anti-corrosion-fin increases the life span of the coil.
- Air-pass guard is located at the bottom of the coil to improve heat exchange rate.
- Easy to replace defrost heater (LED model).
- Corrugated fin is used to increase heat exchange rate by expanding the surface area.



- Even in confined space, all parts can be reached easily by opening the front cover.
- Location of power connector makes replacement of motor convenient.
- **1 Year fan motor and parts warranty!**



- Seamless inner groove copper tube increases the heat exchange rate by reducing the space between the fin and the copper tube.
- Venturi type distributor and precise orifice hole are used to minimize the pressure drop and maximize the freezing capacity respectively.
- Even in confined space, all parts can be reached easily by opening the front cover.



- Thermostat is installed to prevent over temperature on heater.
- Circuit opens automatically over 70°F.
- Parts available: Expansion Valve (Sporlan) (Factory Pre-mounted)  
Solenoid Valve (Sporlan) (Factory Pre-mounted)  
Thermostat (Johnson Control) (Shipped Loose)



- The spiral fan guard enables cold air to be delivered efficiently and thoroughly.
- The protruding fan and motor placement substantially reduce vibration and noise.
- **EC motor (Dual Speed & Dual Voltage) for high energy efficiency.**

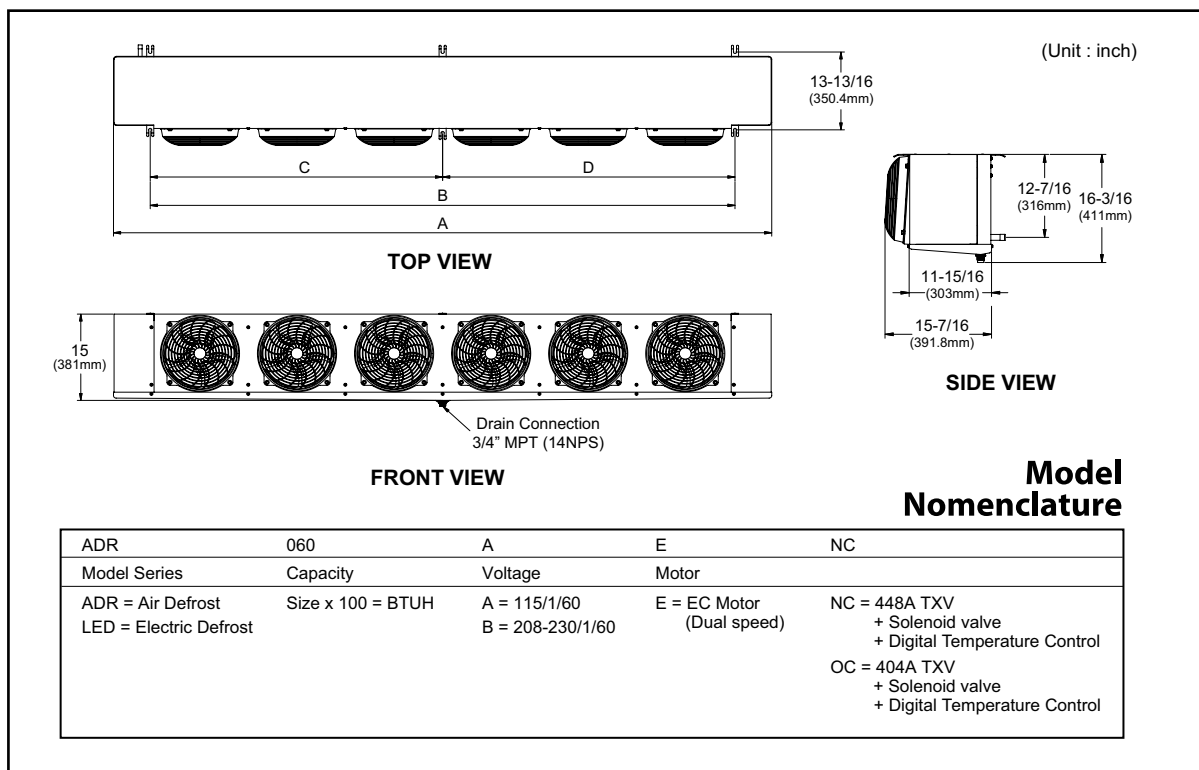


- Anti-oxidizing stainless steel mounting and bolts.

**All Replacement Parts are Universal!**

# LOW PROFILE UNIT COOLERS

## DIMENSIONAL DATA



## DIMENSIONAL DATA FOR ADR/LED MODELS

| Air Defrost Models<br>6 FPI | Electric Defrost Models<br>6 FPI | No. of Fans | Dimensions (Inches / mm) |        |      |      |      |      | Approx. Net Wt. (lbs / kg) |          |
|-----------------------------|----------------------------------|-------------|--------------------------|--------|------|------|------|------|----------------------------|----------|
|                             |                                  |             | A                        |        | B    |      | C    |      | D                          |          |
| ADR060AE                    | LED036BE                         | 1           | 29.4                     | 747.4  | 17.4 | 443  |      |      | 30 / 14                    | 32 / 15  |
|                             | LED052BE                         | 2           | 45.4                     | 1154.4 | 33.5 | 850  |      |      |                            | 48 / 22  |
| ADR089AE                    |                                  | 2           | 45.4                     | 1154.4 | 33.5 | 850  |      |      | 45 / 20                    |          |
| ADR112AE                    | LED072BE                         | 2           | 45.4                     | 1154.4 | 33.5 | 850  |      |      | 48 / 22                    | 52 / 24  |
| ADR125AE                    | LED081BE                         | 2           | 45.4                     | 1154.4 | 33.5 | 850  |      |      | 49 / 22                    | 53 / 24  |
| ADR137AE                    | LED090BE                         | 3           | 61.4                     | 1559.4 | 49.4 | 1255 |      |      | 62 / 28                    | 67 / 31  |
| ADR171AE                    | LED114BE                         | 3           | 61.4                     | 1559.4 | 49.4 | 1255 |      |      | 67 / 30                    | 73 / 33  |
| ADR191AE                    |                                  | 3           | 61.4                     | 1559.4 | 49.4 | 1255 |      |      | 68 / 31                    |          |
|                             | LED124BE                         | 4           | 77.4                     | 1966.4 | 65.4 | 1662 |      |      |                            | 86 / 39  |
|                             | LED157BE                         | 4           | 77.4                     | 1966.4 | 65.4 | 1662 |      |      |                            | 93 / 42  |
| ADR258AE                    | LED176BE                         | 4           | 77.4                     | 1966.4 | 65.4 | 1662 |      |      | 87 / 40                    | 95 / 43  |
| ADR325AE                    | LED225BE                         | 5           | 93.5                     | 2374.4 | 81.5 | 2070 |      |      | 105 / 48                   | 116 / 52 |
| ADR352AE                    | LED244BE                         | 6           | 109.5                    | 2782.4 | 97.6 | 2478 | 49.0 | 1244 | 124 / 56                   | 134 / 61 |
| ADR392AE                    | LED273BE                         | 6           | 109.5                    | 2782.4 | 97.6 | 2478 | 49.0 | 1244 | 127 / 58                   | 137 / 62 |

# LOW PROFILE UNIT COOLERS



## SPECIFICATIONS & PHYSICAL DATA

### ADR Air Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | EC Motor Data |            |       | Connections (Inches) |          |           |         | Approx. Net Weight |    |
|----------|---------------|------------|-------|----------------------|----------|-----------|---------|--------------------|----|
|          | 115V 1Ph 60Hz |            |       | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg |
|          | HP            | Total Amps | Watts |                      |          |           |         |                    |    |
| ADR060AE | 1/25          | 0.75       | 25    | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 30                 | 14 |
| ADR089AE | 1/25          | 1.50       | 50    | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 45                 | 20 |
| ADR112AE | 1/25          | 1.50       | 50    | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 48                 | 22 |
| ADR125AE | 1/25          | 1.50       | 50    | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 49                 | 22 |
| ADR137AE | 1/25          | 2.25       | 75    | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 62                 | 28 |
| ADR171AE | 1/25          | 2.25       | 75    | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 67                 | 30 |
| ADR191AE | 1/25          | 2.25       | 75    | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 68                 | 31 |
| ADR258AE | 1/25          | 3.00       | 100   | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 87                 | 40 |
| ADR325AE | 1/25          | 3.75       | 125   | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 105                | 48 |
| ADR352AE | 1/25          | 4.50       | 150   | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 124                | 56 |
| ADR392AE | 1/25          | 4.50       | 150   | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 127                | 58 |

### LED Electric Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | EC Motor Data |            |       | Defrost Heaters |            |          | Connections (Inches) |          |           |         | Approx. Net Weight |    |
|----------|---------------|------------|-------|-----------------|------------|----------|----------------------|----------|-----------|---------|--------------------|----|
|          | 230V 1Ph 60Hz |            |       | Watts           | Total Amps |          | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg |
|          | HP            | Total Amps | Watts |                 | 230/1/60   | 230/3/60 |                      |          |           |         |                    |    |
| LED036BE | 1/25          | 0.45       | 25    | 1020            | 4.4        | 2.6      | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 32                 | 15 |
| LED052BE | 1/25          | 0.90       | 50    | 2010            | 8.7        | 5.0      | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 48                 | 22 |
| LED072BE | 1/25          | 0.90       | 50    | 2010            | 8.7        | 5.0      | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 52                 | 24 |
| LED081BE | 1/25          | 0.90       | 50    | 2010            | 8.7        | 5.0      | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 53                 | 24 |
| LED090BE | 1/25          | 1.35       | 75    | 3000            | 13.0       | 7.5      | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 67                 | 31 |
| LED114BE | 1/25          | 1.35       | 75    | 3000            | 13.0       | 7.5      | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 73                 | 33 |
| LED124BE | 1/25          | 1.80       | 100   | 3900            | 17.0       | 9.8      | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 86                 | 39 |
| LED157BE | 1/25          | 1.80       | 100   | 3900            | 17.0       | 9.8      | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 93                 | 42 |
| LED176BE | 1/25          | 1.80       | 100   | 3900            | 17.0       | 9.8      | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 95                 | 43 |
| LED225BE | 1/25          | 2.25       | 125   | 4800            | 20.9       | 12.0     | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 116                | 52 |
| LED244BE | 1/25          | 2.70       | 150   | 6000            | 26.1       | 15.1     | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 134                | 61 |
| LED273BE | 1/25          | 2.70       | 150   | 6000            | 26.1       | 15.1     | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 137                | 62 |

# LOW PROFILE UNIT COOLERS



## AIR DEFROST PERFORMANCE DATA

### ADR Air Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | Capacity (R-404A)*               |       |                                  |       | Capacity (R-448A / R-449A)*      |       |                                  |       | Fan Data               |      |     |
|----------|----------------------------------|-------|----------------------------------|-------|----------------------------------|-------|----------------------------------|-------|------------------------|------|-----|
|          | 10°F / 6°C TD<br>25°F / -4°C SST |       | 14°F / 8°C TD<br>21°F / -6°C SST |       | 10°F / 6°C TD<br>25°F / -4°C SST |       | 14°F / 8°C TD<br>21°F / -6°C SST |       |                        |      | No. |
|          | BTUH                             | Watts | BTUH                             | Watts | BTUH                             | Watts | BTUH                             | Watts | CFM / m <sup>3</sup> H |      |     |
| ADR060AE | 6058                             | 1774  | 7906                             | 2315  | 6022                             | 1764  | 7853                             | 2300  | 772                    | 1312 | 1   |
| ADR089AE | 8989                             | 2633  | 11756                            | 3443  | 8947                             | 2620  | 11694                            | 3425  | 1555                   | 2643 | 2   |
| ADR112AE | 11280                            | 3304  | 14763                            | 4324  | 11234                            | 3290  | 14694                            | 4303  | 1544                   | 2623 | 2   |
| ADR125AE | 12609                            | 3693  | 16511                            | 4836  | 12561                            | 3679  | 16439                            | 4815  | 1544                   | 2623 | 2   |
| ADR137AE | 13744                            | 4025  | 18008                            | 5274  | 13697                            | 4011  | 17936                            | 5253  | 2333                   | 3964 | 3   |
| ADR171AE | 17213                            | 5041  | 22565                            | 6609  | 17159                            | 5025  | 22484                            | 6585  | 2316                   | 3935 | 3   |
| ADR191AE | 19213                            | 5627  | 25197                            | 7379  | 19157                            | 5611  | 25113                            | 7355  | 2316                   | 3935 | 3   |
| ADR258AE | 25883                            | 7580  | 33974                            | 9950  | 25821                            | 7562  | 33882                            | 9923  | 3088                   | 5247 | 4   |
| ADR325AE | 32584                            | 9543  | 42795                            | 12534 | 32519                            | 9524  | 42697                            | 12505 | 3860                   | 6559 | 5   |
| ADR352AE | 35287                            | 10335 | 46354                            | 13576 | 35220                            | 10315 | 46253                            | 13546 | 4632                   | 7870 | 6   |
| ADR392AE | 39317                            | 11515 | 51659                            | 15130 | 39248                            | 11495 | 51556                            | 15099 | 4632                   | 7870 | 6   |

## ELECTRIC DEFROST PERFORMANCE DATA

### LED Electric Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | Capacity (R-404A)*                 |       |                                    |       | Capacity (R-448A)*                 |       |                                    |       | Fan Data               |      |     |
|----------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|------------------------|------|-----|
|          | 10°F / 6°C TD<br>-20°F / -29°C SST |       | 12°F / 7°C TD<br>-22°F / -30°C SST |       | 10°F / 6°C TD<br>-20°F / -29°C SST |       | 12°F / 7°C TD<br>-22°F / -30°C SST |       |                        |      | No. |
|          | BTUH                               | Watts | BTUH                               | Watts | BTUH                               | Watts | BTUH                               | Watts | CFM / m <sup>3</sup> H |      |     |
| LED036BE | 3764                               | 1102  | 4432                               | 1298  | 3678                               | 1077  | 4325                               | 1267  | 772                    | 1312 | 1   |
| LED052BE | 5351                               | 1567  | 6312                               | 1849  | 5247                               | 1537  | 6183                               | 1811  | 1555                   | 2643 | 2   |
| LED072BE | 7369                               | 2158  | 8703                               | 2549  | 7244                               | 2121  | 8546                               | 2503  | 1544                   | 2623 | 2   |
| LED081BE | 8313                               | 2435  | 9823                               | 2877  | 8181                               | 2396  | 9657                               | 2828  | 1544                   | 2623 | 2   |
| LED090BE | 9161                               | 2683  | 10831                              | 3172  | 9027                               | 2644  | 10663                              | 3123  | 2333                   | 3964 | 3   |
| LED114BE | 11587                              | 3393  | 13708                              | 4015  | 11431                              | 3348  | 13513                              | 3958  | 2316                   | 3935 | 3   |
| LED124BE | 12608                              | 3693  | 14924                              | 4371  | 12454                              | 3647  | 14731                              | 4314  | 3111                   | 5285 | 4   |
| LED157BE | 15901                              | 4657  | 18832                              | 5515  | 15723                              | 4605  | 18610                              | 5450  | 3088                   | 5247 | 4   |
| LED176BE | 17842                              | 5225  | 21139                              | 6191  | 17657                              | 5171  | 20907                              | 6123  | 3088                   | 5247 | 4   |
| LED225BE | 22711                              | 6651  | 26926                              | 7886  | 22509                              | 6592  | 26672                              | 7812  | 3860                   | 6559 | 5   |
| LED244BE | 24664                              | 7224  | 29248                              | 8566  | 24456                              | 7162  | 28986                              | 8489  | 4632                   | 7870 | 6   |
| LED273BE | 27609                              | 8086  | 32750                              | 9592  | 27392                              | 8023  | 32478                              | 9512  | 4632                   | 7870 | 6   |

\*Cooling capacity calculation (Condensing temperature = 105°F, Superheat = 6.5°F, Subcooling = 9°F )

# THIN PROFILE COOLERS

## MODEL NOMENCLATURE

|                                             |                   |                                  |                              |                                                                                                          |
|---------------------------------------------|-------------------|----------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------|
| TTA                                         | 085               | A                                | E                            | NX                                                                                                       |
| Model Series                                | Capacity          | Voltage                          | MOTOR                        |                                                                                                          |
| TTA = Air Defrost<br>TTE = Electric Defrost | Size x 100 = BTUH | A = 115/1/60<br>B = 208-230/1/60 | E = EC Motor<br>(Dual speed) | OX = 404A TXV<br>NX = 448A TXV<br>OM = 404A TXV<br>+ Solenoid valve<br>NM = 448A TXV<br>+ Solenoid valve |



## SPECIFICATIONS & PHYSICAL DATA

### TTA Air Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | EC Motor Data |            |       | Connections (Inches) |          |           |         | Approx. Net Weight |    |
|----------|---------------|------------|-------|----------------------|----------|-----------|---------|--------------------|----|
|          | 115V 1Ph 60Hz |            |       |                      |          |           |         |                    |    |
|          | HP            | Total Amps | Watts | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg |
| TTA085AE | 1/25          | 1.50       | 50    | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 44                 | 20 |
| TTA130AE | 1/25          | 2.25       | 75    | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 61                 | 28 |
| TTA176AE | 1/25          | 3.00       | 100   | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 80                 | 36 |
| TTA221AE | 1/25          | 3.75       | 125   | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 97                 | 44 |
| TTA248AE | 1/25          | 4.50       | 150   | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 115                | 52 |

### TTE Electric Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | EC Motor Data |            |       | Defrost Heaters |            | Connections (Inches) |          |           |         | Approx. Net Weight |    |
|----------|---------------|------------|-------|-----------------|------------|----------------------|----------|-----------|---------|--------------------|----|
|          | 230V 1Ph 60Hz |            |       | Watts           | Total Amps |                      |          |           |         |                    |    |
|          | HP            | Total Amps | Watts |                 | 230/1/60   | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg |
| TTE064BE | 1/25          | 0.90       | 50    | 1110            | 4.8        | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 45                 | 20 |
| TTE102BE | 1/25          | 1.35       | 75    | 1530            | 6.7        | 1/2 OD               | 5/8 ID   | 1/4 OD    | 3/4 MPT | 62                 | 28 |
| TTE140BE | 1/25          | 1.80       | 100   | 1950            | 8.5        | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 81                 | 37 |
| TTE179BE | 1/25          | 2.25       | 125   | 2370            | 10.3       | 1/2 OD               | 7/8 ID   | 1/4 OD    | 3/4 MPT | 99                 | 45 |
| TTE203BE | 1/25          | 2.70       | 150   | 2790            | 12.1       | 1/2 OD               | 1-1/8 ID | 1/4 OD    | 3/4 MPT | 116                | 53 |

# THIN PROFILE COOLERS

## PERFORMANCE DATA

### TTA Air Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | Capacity (R-404A)* |       |                 |       | Capacity (R-448A / R-449A)* |       |                 |       | Fan Data |      |     |
|----------|--------------------|-------|-----------------|-------|-----------------------------|-------|-----------------|-------|----------|------|-----|
|          | 10°F / 6°C TD      |       | 14°F / 8°C TD   |       | 10°F / 6°C TD               |       | 14°F / 8°C TD   |       |          |      |     |
|          | 25°F / -4°C SST    |       | 21°F / -6°C SST |       | 25°F / -4°C SST             |       | 21°F / -6°C SST |       | CFM/m³/h |      | No. |
|          | BTUH               | Watts | BTUH            | Watts | BTUH                        | Watts | BTUH            | Watts |          |      |     |
| TTA085AE | 8535               | 2500  | 12502           | 3662  | 8502                        | 2490  | 12447           | 3645  | 1487     | 2527 | 2   |
| TTA130AE | 13053              | 3823  | 19151           | 5609  | 13014                       | 3812  | 19086           | 5590  | 2231     | 3791 | 3   |
| TTA176AE | 17595              | 5153  | 25840           | 7568  | 17553                       | 5141  | 25769           | 7547  | 2975     | 5054 | 4   |
| TTA221AE | 22151              | 6487  | 32551           | 9533  | 22106                       | 6474  | 32476           | 9511  | 3719     | 6318 | 5   |
| TTA248AE | 24887              | 7289  | 36583           | 10714 | 24841                       | 7275  | 36504           | 10691 | 4462     | 7582 | 6   |

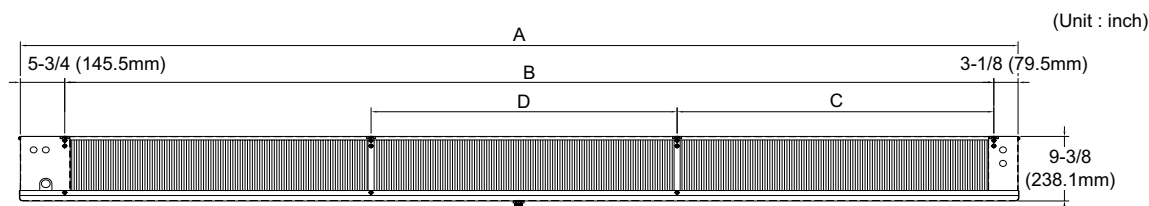
### TTE Electric Defrost Models 60Hz. With EC Motors (Dual Speed & Dual Voltage)

| Model    | Capacity (R-404A)* |       |                   |       | Capacity (R-448A)* |       |                   |       | Fan Data |      |     |
|----------|--------------------|-------|-------------------|-------|--------------------|-------|-------------------|-------|----------|------|-----|
|          | 10°F / 6°C TD      |       | 12°F / 7°C TD     |       | 10°F / 6°C TD      |       | 12°F / 7°C TD     |       |          |      |     |
|          | -20°F / -29°C SST  |       | -22°F / -30°C SST |       | -20°F / -29°C SST  |       | -22°F / -30°C SST |       | CFM/m³/h |      | No. |
|          | BTUH               | Watts | BTUH              | Watts | BTUH               | Watts | BTUH              | Watts |          |      |     |
| TTE064BE | 6570               | 1924  | 8070              | 2363  | 6457               | 1891  | 7924              | 2321  | 1487     | 2527 | 2   |
| TTE102BE | 10369              | 3037  | 12760             | 3737  | 10230              | 2996  | 12579             | 3684  | 2231     | 3791 | 3   |
| TTE140BE | 14240              | 4171  | 17543             | 5138  | 14082              | 4124  | 17336             | 5077  | 2975     | 5054 | 4   |
| TTE179BE | 18152              | 5316  | 22378             | 6554  | 17978              | 5265  | 22151             | 6487  | 3719     | 6318 | 5   |
| TTE203BE | 20508              | 6006  | 25292             | 7407  | 20326              | 5953  | 25054             | 7338  | 4462     | 7582 | 6   |

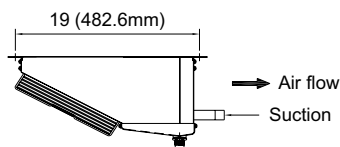
\*Cooling capacity calculation (Condensing temperature = 105°F, Superheat = 6.5°F, Subcooling = 9°F)

### Dimensional Data For All Models

| Air Defrost Models<br>6 FPI | Electric Defrost Models<br>6 FPI | No. of Fans | Dimensions (Inches / mm) |      |       |      |      |      |      |      |
|-----------------------------|----------------------------------|-------------|--------------------------|------|-------|------|------|------|------|------|
|                             |                                  |             | A                        |      | B     |      | C    |      | D    |      |
|                             |                                  |             | Inch                     | mm   | Inch  | mm   | Inch | mm   | Inch | mm   |
| TTA085AE                    | TTE064BE                         | 2           | 49.7                     | 1262 | 40.8  | 1037 | -    | -    | -    | -    |
| TTA130AE                    | TTE102BE                         | 3           | 69.4                     | 1764 | 60.6  | 1539 | -    | -    | -    | -    |
| TTA176AE                    | TTE140BE                         | 4           | 89.2                     | 2266 | 80.4  | 2041 | 40.9 | 1038 | -    | -    |
| TTA221AE                    | TTE179BE                         | 5           | 109.0                    | 2768 | 100.1 | 2543 | 40.9 | 1038 | -    | -    |
| TTA248AE                    | TTE203BE                         | 6           | 128.7                    | 3270 | 119.9 | 3045 | 40.9 | 1038 | 39.5 | 1003 |



FRONT VIEW



SIDE VIEW

# CENTER MOUNT COOLERS

## MODEL NOMENCLATURE

| TCA                                         | 084               | A                                | E                         | NX                                                                                                       |
|---------------------------------------------|-------------------|----------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------|
| Model Series                                | Capacity          | Voltage                          | Motor                     |                                                                                                          |
| TCA = Air Defrost<br>TCE = Electric Defrost | Size x 100 = BTUH | A = 115/1/60<br>B = 208-230/1/60 | E = EC Motor<br>(1 speed) | OX = 404A TXV<br>NX = 448A TXV<br>OM = 404A TXV<br>+ Solenoid valve<br>NM = 448A TXV<br>+ Solenoid valve |



## SPECIFICATIONS & PHYSICAL DATA

**TCA Air Defrost Models 60Hz. With EC Motors (1 Speed & Dual Voltage)**

| Model    | EC Motor Data |            |       | Connections (Inches) |          |           |         | Approx. Net Weight |     |
|----------|---------------|------------|-------|----------------------|----------|-----------|---------|--------------------|-----|
|          | 115V 1Ph 60Hz |            |       | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg  |
|          | HP            | Total Amps | Watts |                      |          |           |         |                    |     |
| TCA084AE | 1/20          | 0.72       | 55    | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 66                 | 30  |
| TCA113AE | 1/20          | 0.72       | 55    | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 86                 | 39  |
| TCA187AE | 1/20          | 1.44       | 110   | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 108                | 49  |
| TCA207AE | 1/20          | 1.44       | 110   | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 137                | 62  |
| TCA249AE | 1/20          | 1.44       | 110   | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 141                | 64  |
| TCA285AE | 1/20          | 2.16       | 165   | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 150                | 68  |
| TCA338AE | 1/20          | 2.88       | 220   | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 187                | 85  |
| TCA381AE | 1/20          | 2.88       | 220   | 1/2 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 192                | 87  |
| TCA477AE | 1/20          | 3.60       | 275   | 1/2 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 231                | 105 |

**TCE Electric Defrost Models 60Hz. With EC Motors (1 Speed & Dual Voltage)**

| Model    | EC Motor Data |            |       | Defrost Heaters |            | Connections (Inches) |          |           |         | Approx. Net Weight |     |
|----------|---------------|------------|-------|-----------------|------------|----------------------|----------|-----------|---------|--------------------|-----|
|          | 230V 1Ph 60Hz |            |       | Watts           | Total Amps | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg  |
|          | HP            | Total Amps | Watts |                 | 230/1/60   |                      |          |           |         |                    |     |
| TCE066BE | 1/20          | 0.72       | 55    | 2120            | 9.2        | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 67                 | 30  |
| TCE093BE | 1/20          | 0.72       | 55    | 3020            | 13.1       | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 87                 | 39  |
| TCE156BE | 1/20          | 1.44       | 110   | 3020            | 13.1       | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 109                | 49  |
| TCE175BE | 1/20          | 1.44       | 110   | 4200            | 18.3       | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 138                | 63  |
| TCE214BE | 1/20          | 1.44       | 110   | 4200            | 18.3       | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 143                | 65  |
| TCE241BE | 1/20          | 2.16       | 165   | 4200            | 18.3       | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 151                | 69  |
| TCE288BE | 1/20          | 2.88       | 220   | 5480            | 23.8       | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 189                | 86  |
| TCE325BE | 1/20          | 2.88       | 220   | 5480            | 23.8       | 1/2 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 194                | 88  |
| TCE410BE | 1/20          | 3.60       | 275   | 6720            | 29.2       | 1/2 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 234                | 106 |

# CENTER MOUNT COOLERS

## PERFORMANCE DATA

**TCA Air Defrost Models 60Hz. With EC Motors (1 Speed & Dual Voltage)**

| Model    | Capacity (R-404A)* |       |                 |       | Capacity (R-448A / R-449A)* |       |                 |       | Fan Data |      |     |
|----------|--------------------|-------|-----------------|-------|-----------------------------|-------|-----------------|-------|----------|------|-----|
|          | 10°F / 6°C TD      |       | 14°F / 8°C TD   |       | 10°F / 6°C TD               |       | 14°F / 8°C TD   |       |          |      |     |
|          | 25°F / -4°C SST    |       | 21°F / -6°C SST |       | 25°F / -4°C SST             |       | 21°F / -6°C SST |       | CFM/m³H  |      | No. |
|          | BTUH               | Watts | BTUH            | Watts | BTUH                        | Watts | BTUH            | Watts |          |      |     |
| TCA084AE | 8431               | 2469  | 12370           | 3623  | 8407                        | 2462  | 12329           | 3611  | 1118     | 1899 | 1   |
| TCA113AE | 11352              | 3325  | 16685           | 4887  | 11330                       | 3318  | 16648           | 4876  | 1126     | 1913 | 1   |
| TCA187AE | 18827              | 5514  | 27690           | 8110  | 18798                       | 5505  | 27641           | 8095  | 2240     | 3806 | 2   |
| TCA207AE | 20761              | 6080  | 30557           | 8949  | 20738                       | 6073  | 30517           | 8938  | 2252     | 3826 | 2   |
| TCA249AE | 24986              | 7318  | 36785           | 10773 | 24962                       | 7311  | 36744           | 10761 | 2252     | 3826 | 2   |
| TCA285AE | 28475              | 8340  | 41911           | 12275 | 28443                       | 8330  | 41857           | 12259 | 3360     | 5709 | 3   |
| TCA338AE | 33843              | 9912  | 49824           | 14592 | 33809                       | 9902  | 49767           | 14576 | 4480     | 7611 | 4   |
| TCA381AE | 38137              | 11169 | 56155           | 16446 | 38103                       | 11159 | 56096           | 16429 | 4480     | 7611 | 4   |
| TCA477AE | 47796              | 13998 | 70395           | 20617 | 47760                       | 13988 | 70333           | 20599 | 5600     | 9514 | 5   |

**TCE Electric Defrost Models 60Hz. With EC Motors (1 Speed & Dual Voltage)**

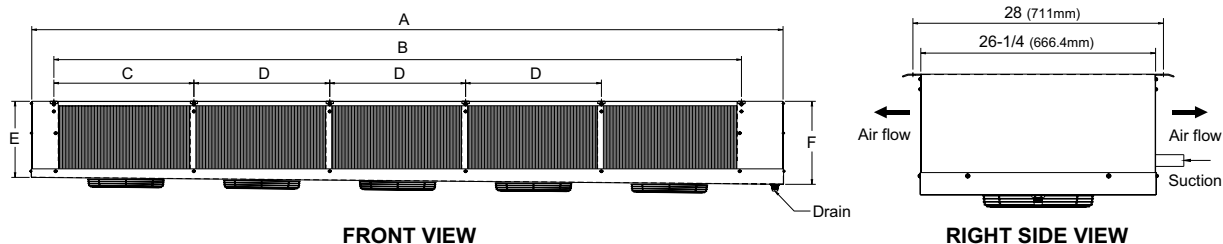
| Model    | Capacity (R-404A)* |       |                   |       | Capacity (R-448A)* |       |                   |       | Fan Data |      |     |
|----------|--------------------|-------|-------------------|-------|--------------------|-------|-------------------|-------|----------|------|-----|
|          | 10°F / 6°C TD      |       | 12°F / 7°C TD     |       | 10°F / 6°C TD      |       | 12°F / 7°C TD     |       |          |      |     |
|          | -20°F / -29°C SST  |       | -22°F / -30°C SST |       | -20°F / -29°C SST  |       | -22°F / -30°C SST |       | CFM/m³H  |      | No. |
|          | BTUH               | Watts | BTUH              | Watts | BTUH               | Watts | BTUH              | Watts |          |      |     |
| TCE066BE | 6731               | 1971  | 8282              | 2426  | 6640               | 1945  | 8164              | 2391  | 1118     | 1899 | 1   |
| TCE093BE | 9398               | 2752  | 11588             | 3394  | 9311               | 2727  | 11475             | 3361  | 1126     | 1913 | 1   |
| TCE156BE | 15793              | 4625  | 19490             | 5708  | 15675              | 4591  | 19336             | 5663  | 2240     | 3806 | 2   |
| TCE175BE | 17697              | 5183  | 21860             | 6402  | 17597              | 5154  | 21729             | 6364  | 2252     | 3826 | 2   |
| TCE214BE | 21415              | 6272  | 26463             | 7750  | 21311              | 6241  | 26325             | 7710  | 2252     | 3826 | 2   |
| TCE241BE | 24247              | 7101  | 29952             | 8772  | 24113              | 7062  | 29776             | 8721  | 3360     | 5709 | 3   |
| TCE288BE | 28959              | 8481  | 35784             | 10480 | 28817              | 8440  | 35598             | 10426 | 4480     | 7611 | 4   |
| TCE325BE | 32738              | 9588  | 40461             | 11850 | 32591              | 9545  | 40269             | 11794 | 4480     | 7611 | 4   |
| TCE410BE | 41243              | 12079 | 50991             | 14934 | 41087              | 12033 | 50785             | 14874 | 5600     | 9514 | 5   |

**Dimensional Data For for TCA/TCE Models**

| Air Defrost Models 6 FPI | Electric Defrost Models 6 FPI | No. of Fans | Dimensions (Inches / mm) |        |       |        |      |       |      |       |      |       |      |       |
|--------------------------|-------------------------------|-------------|--------------------------|--------|-------|--------|------|-------|------|-------|------|-------|------|-------|
|                          |                               |             | A                        |        | B     |        | C    |       | D    |       | E    |       | F    |       |
|                          |                               |             | Inch                     | mm     | Inch  | mm     | Inch | mm    | Inch | mm    | Inch | mm    | Inch | mm    |
| TCA084AE                 | TCE066BE                      | 1           | 57.3                     | 1456.0 | 45.3  | 1150.4 | -    | -     | -    | -     | 6.7  | 171.3 | 7.9  | 201.3 |
| TCA113AE                 | TCE093BE                      | 1           | 79.3                     | 2015.0 | 67.3  | 1709.4 | -    | -     | -    | -     | 6.7  | 171.3 | 7.9  | 201.3 |
| TCA187AE                 | TCE156BE                      | 2           | 79.3                     | 2015.0 | 67.3  | 1709.4 | 33.6 | 854.7 | -    | -     | 9.2  | 234.8 | 10.4 | 264.8 |
| TCA207AE                 | TCE175BE                      | 2           | 79.3                     | 2015.0 | 67.3  | 1709.4 | 33.6 | 854.7 | -    | -     | 13.0 | 330.0 | 14.2 | 360.0 |
| TCA249AE                 | TCE214BE                      | 2           | 79.3                     | 2015.0 | 67.3  | 1709.4 | 33.6 | 854.7 | -    | -     | 13.0 | 330.0 | 14.2 | 360.0 |
| TCA285AE                 | TCE241BE                      | 3           | 79.3                     | 2015.0 | 67.3  | 1709.4 | 22.7 | 575.6 | 22.0 | 558.4 | 13.0 | 330.0 | 14.2 | 360.0 |
| TCA338AE                 | TCE288BE                      | 4           | 101.3                    | 2574.0 | 89.3  | 2268.4 | 22.7 | 575.6 | 22.0 | 558.4 | 13.0 | 330.0 | 14.2 | 360.0 |
| TCA381AE                 | TCE325BE                      | 4           | 101.3                    | 2574.0 | 89.3  | 2268.4 | 22.7 | 575.6 | 22.0 | 558.4 | 13.0 | 330.0 | 14.2 | 360.0 |
| TCA477AE                 | TCE410BE                      | 5           | 123.3                    | 3132.0 | 111.3 | 2826.4 | 22.7 | 575.6 | 22.0 | 558.4 | 13.0 | 330.0 | 14.2 | 360.0 |

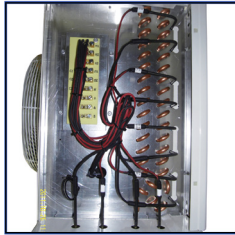
\*Cooling capacity calculation (Condensing temperature = 105°F, Superheat = 6.5°F, Subcooling = 9°F)

(Unit : inch)



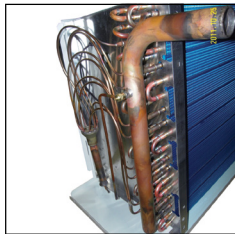
# MEDIUM PROFILE UNIT COOLERS

## MEDIUM PROFILE UNIT COOLER STANDARD FEATURES



### Feature

- EC motor (Dual speed & Dual voltage) for high energy efficiency.
- Electrical board is now facing side for easy installation and servicing.
- All wiring (solenoid and motor) is now located in the bottom of the unit for easy access.
- Charge nipple provided for suction pressure measurement.
- Aluminum cases are now powder coated for corrosion protection.
- FAN GUIDE GRILL provided for air throw extension.
- Drain pan hinged on rear for easy access and applied double drain pan for thermal efficiency.



### Front Access with More Space

- Design features easy front access to both electrical and refrigeration components.
- More space in the electrical cavity makes the unit easier to service and install.
- Side facing electrical control board.

### Wiring

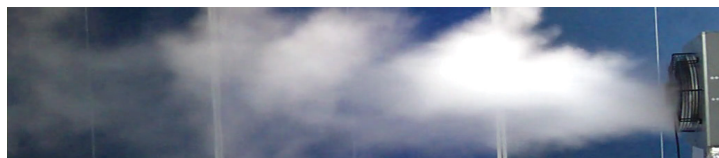
- Solenoid harness is standard.
- Motor and solenoid harnesses are attached to sheet metal panels and are now located at the bottom of the unit for easy access.
- Easy plug connectors for motor harness.



### Heaters & Coil

- Coil heater slots have been enlarged for easier installation and replacement.
- Fixed defrost termination and adjustable defrost cycle on electric defrost (selection).

## Test for Guided Fan Guard



Without Guided Fan Guard distance reach up to 52ft

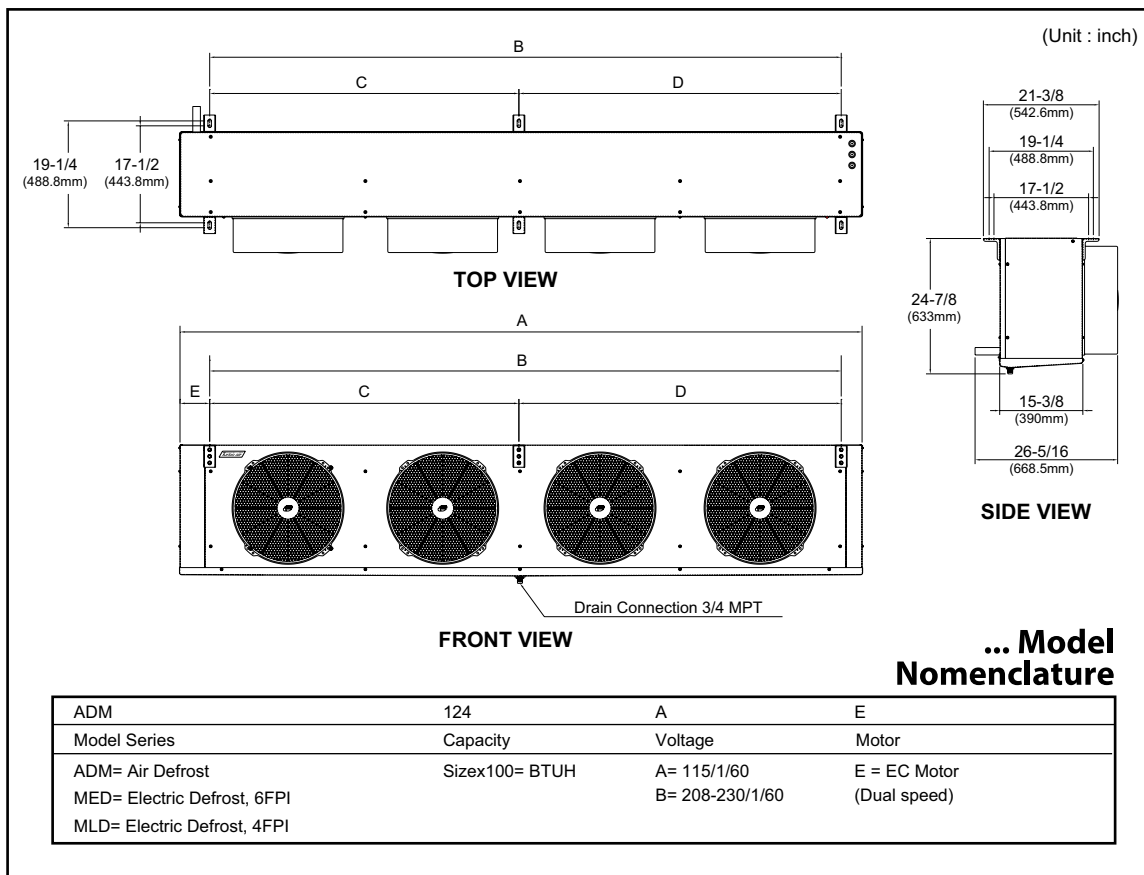


With Guided Fan Guard distance reach up to 109ft

**All Replacement Parts are Universal!**

# MEDIUM PROFILE UNIT COOLERS

## DIMENSIONAL DATA



## DIMENSIONAL DATA FOR ADM/MED/MLD MODELS

| Air Defrost Models | Electric Defrost Models |          | No. of Fans | Dimensions |        |       |        |      |        |      |        |      |       |
|--------------------|-------------------------|----------|-------------|------------|--------|-------|--------|------|--------|------|--------|------|-------|
|                    |                         |          |             | A          |        | B     |        | C    |        | D    |        | E    |       |
|                    |                         |          |             | Inch       | mm     | Inch  | mm     | Inch | mm     | Inch | mm     | Inch | mm    |
| 6 FPI              | 6 FPI                   | 4 FPI    |             |            |        |       |        |      |        |      |        |      |       |
| ADM124AE           | MED098BE                | -        | 1           | 39.4       | 1002.0 | 30.3  | 770.0  | -    | -      | -    | -      | 5.4  | 136.1 |
| ADM173AE           | MED139BE                | MLD118BE | 1           | 39.4       | 1002.0 | 30.3  | 770.0  | -    | -      | -    | -      | 5.4  | 136.1 |
| ADM251AE           | MED207BE                | MLD201BE | 2           | 67.4       | 1712.0 | 58.3  | 1480.0 | -    | -      | -    | -      | 5.4  | 136.1 |
| ADM350AE           | MED291BE                | MLD245BE | 2           | 67.4       | 1712.0 | 58.3  | 1480.0 | -    | -      | -    | -      | 5.4  | 136.1 |
| ADM380AE           | MED318BE                | MLD308BE | 3           | 95.4       | 2422.0 | 86.2  | 2190.0 | -    | -      | -    | -      | 5.4  | 136.1 |
| ADM527AE           | MED445BE                | MLD373BE | 3           | 95.4       | 2422.0 | 86.2  | 2190.0 | -    | -      | -    | -      | 5.4  | 136.1 |
| ADM625AE           | MED531BE                | MLD444BE | 4           | 123.3      | 3132.0 | 114.2 | 2900.0 | 55.9 | 1420.0 | 58.3 | 1480.0 | 5.4  | 136.1 |
| ADM704AE           | MED601BE                | MLD502BE | 4           | 123.3      | 3132.0 | 114.2 | 2900.0 | 55.9 | 1420.0 | 58.3 | 1480.0 | 5.4  | 136.1 |

# MEDIUM PROFILE UNIT COOLERS

## Air Defrost Specifications & Physical Data

### ADM Air Defrost Models 60Hz - 6FPI. With EC Motors (Dual Speed)

| ADR Model | EC Motor Data |            |       | Connections (Inches) |          |           |         | Approx. Net Weight |     |
|-----------|---------------|------------|-------|----------------------|----------|-----------|---------|--------------------|-----|
|           | 115V 1Ph 60Hz |            |       |                      |          |           |         |                    |     |
|           | HP            | Total Amps | Watts | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   | Lbs                | Kg  |
| ADM124AE  | 1/3           | 4.40       | 250   | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 75                 | 34  |
| ADM173AE  | 1/3           | 4.40       | 250   | 1/2 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 82                 | 37  |
| ADM251AE  | 1/3           | 8.80       | 500   | 7/8 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 126                | 57  |
| ADM350AE  | 1/3           | 8.80       | 500   | 7/8 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 139                | 63  |
| ADM380AE  | 1/3           | 13.20      | 750   | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 179                | 81  |
| ADM527AE  | 1/3           | 13.20      | 750   | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 197                | 89  |
| ADM625AE  | 1/3           | 17.60      | 1000  | 7/8 OD               | 1-5/8 OD | 1/4 OD    | 3/4 MPT | 254                | 115 |
| ADM704AE  | 1/3           | 17.60      | 1000  | 7/8 OD               | 1-5/8 OD | 1/4 OD    | 3/4 MPT | 258                | 117 |

### MED Electric Defrost Models 60Hz - 6FPI. With EC Motors ( Dual Speed )

| ADR Model | EC Motor Data |            |       | Defrost Heaters |                           | Connections (Inches) |          |           |         | Approx. Net Weight |     |
|-----------|---------------|------------|-------|-----------------|---------------------------|----------------------|----------|-----------|---------|--------------------|-----|
|           | 115V 1Ph 60Hz |            |       | Watts           | Total AMP<br>230 / 1 / 60 | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   |                    |     |
|           | HP            | Total Amps | Watts |                 |                           |                      |          |           |         |                    |     |
| MED098BE  | 1/3           | 2.40       | 250   | 2120            | 9.2                       | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 80                 | 36  |
| MED139BE  | 1/3           | 2.40       | 250   | 3020            | 13.1                      | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 86                 | 39  |
| MED207BE  | 1/3           | 4.80       | 500   | 3020            | 13.1                      | 7/8 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 135                | 61  |
| MED291BE  | 1/3           | 4.80       | 500   | 4200            | 18.3                      | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 148                | 67  |
| MED318BE  | 1/3           | 7.20       | 750   | 4200            | 18.3                      | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 190                | 86  |
| MED445BE  | 1/3           | 7.20       | 750   | 4200            | 18.3                      | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 210                | 95  |
| MED531BE  | 1/3           | 9.60       | 1000  | 5480            | 23.8                      | 7/8 OD               | 1-5/8 OD | 1/4 OD    | 3/4 MPT | 269                | 122 |
| MED601BE  | 1/3           | 9.60       | 1000  | 5480            | 23.8                      | 7/8 OD               | 1-5/8 OD | 1/4 OD    | 3/4 MPT | 274                | 124 |

### MLD Electric Defrost Models 60Hz - 4FPI. With EC Motors ( Dual Speed )

| ADR Model | EC Motor Data |            |       | Defrost Heaters |                           | Connections (Inches) |          |           |         | Approx. Net Weight |     |
|-----------|---------------|------------|-------|-----------------|---------------------------|----------------------|----------|-----------|---------|--------------------|-----|
|           | 230V 1Ph 60Hz |            |       | Watts           | Total AMP<br>230 / 1 / 60 | COIL INLET           | SUCTION  | EQUALIZER | DRAIN   |                    |     |
|           | HP            | Total Amps | Watts |                 |                           |                      |          |           |         |                    |     |
| MLD118BE  | 1/3           | 2.40       | 250   | 2120            | 9.2                       | 1/2 OD               | 7/8 OD   | 1/4 OD    | 3/4 MPT | 82                 | 37  |
| MLD201BE  | 1/3           | 4.80       | 500   | 3020            | 13.1                      | 7/8 OD               | 1-1/8 OD | 1/4 OD    | 3/4 MPT | 128                | 58  |
| MLD245BE  | 1/3           | 4.80       | 500   | 3020            | 13.1                      | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 139                | 63  |
| MLD308BE  | 1/3           | 7.20       | 750   | 4200            | 18.3                      | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 181                | 82  |
| MLD373BE  | 1/3           | 7.20       | 750   | 4200            | 18.3                      | 7/8 OD               | 1-3/8 OD | 1/4 OD    | 3/4 MPT | 195                | 88  |
| MLD444BE  | 1/3           | 9.60       | 1000  | 4200            | 18.3                      | 7/8 OD               | 1-5/8 OD | 1/4 OD    | 3/4 MPT | 250                | 113 |
| MLD502BE  | 1/3           | 9.60       | 1000  | 5480            | 23.8                      | 7/8 OD               | 1-5/8 OD | 1/4 OD    | 3/4 MPT | 256                | 116 |

\* Supplied with adapter to 1-1/8" ODF.

# MEDIUM PROFILE UNIT COOLERS

## AIR DEFROST CAPACITIES - 6FPI

### ADM Air Defrost Models 60Hz. With EC Motors

| Model    | Capacity            |                    | Fan Data |            |       |             |     |             |    | EC Motor Data 60Hz<br>115V 1Ph |       |      |
|----------|---------------------|--------------------|----------|------------|-------|-------------|-----|-------------|----|--------------------------------|-------|------|
|          | 10°F TD<br>25°F SST | 6°C TD<br>-4°C SST | No.      | Air Volume |       | Air Throw * |     |             |    |                                |       |      |
|          |                     |                    |          |            |       | Wire Guard  |     | Axial Guard |    |                                |       |      |
|          | BTUH                | Watts              | CFM      | m³/h       | ft.   | m           | ft. | m           | HP | Amps                           | Watts |      |
| ADM124AE | 12444               | 3644               | 1        | 2465       | 4188  | 43          | 13  | 89          | 27 | 1/3                            | 4.40  | 250  |
| ADM173AE | 17363               | 5085               | 1        | 2437       | 4140  | 43          | 13  | 89          | 27 | 1/3                            | 4.40  | 250  |
| ADM251AE | 25184               | 7376               | 2        | 4930       | 8376  | 46          | 14  | 95          | 29 | 1/3                            | 8.80  | 500  |
| ADM350AE | 35000               | 10251              | 2        | 4873       | 8280  | 46          | 14  | 95          | 29 | 1/3                            | 8.80  | 500  |
| ADM380AE | 38006               | 11131              | 3        | 7395       | 12564 | 49          | 15  | 102         | 31 | 1/3                            | 13.20 | 750  |
| ADM527AE | 52731               | 15444              | 3        | 7310       | 12420 | 49          | 15  | 102         | 31 | 1/3                            | 13.20 | 750  |
| ADM625AE | 62551               | 18320              | 4        | 9747       | 16560 | 52          | 16  | 108         | 33 | 1/3                            | 17.60 | 1000 |
| ADM704AE | 70494               | 20646              | 4        | 9747       | 16560 | 52          | 16  | 108         | 33 | 1/3                            | 17.60 | 1000 |

## ELECTRIC DEFROST CAPACITIES - 6FPI

### MED Air Defrost Models 60Hz. With EC Motors

| Model    | Capacity             |                    | Fan Data |            |       |             |     |             |    | EC Motor Data 60Hz<br>208~230V 1Ph |       |       | Defrost Heater<br>(Total Amps) |              |      |
|----------|----------------------|--------------------|----------|------------|-------|-------------|-----|-------------|----|------------------------------------|-------|-------|--------------------------------|--------------|------|
|          | 10°F TD<br>-20°F SST | 6°C TD<br>-4°C SST | No.      | Air Volume |       | Air Throw * |     |             |    |                                    |       |       |                                |              |      |
|          |                      |                    |          |            |       | Wire Guard  |     | Axial Guard |    |                                    |       |       |                                |              |      |
|          | BTUH                 | Watts              | CFM      | m³/h       | ft.   | m           | ft. | m           | HP | Amps                               | Watts | Watts | 230/<br>1/60                   | 230/<br>3/60 |      |
| MED098BE | 9833                 | 2880               | 1        | 2465       | 4188  | 39          | 12  | 85          | 26 | 1/3                                | 2.40  | 250   | 2120                           | 9.2          | 7.4  |
| MED139BE | 13967                | 4091               | 1        | 2437       | 4140  | 39          | 12  | 85          | 26 | 1/3                                | 2.40  | 250   | 3020                           | 13.1         | 7.4  |
| MED207BE | 20746                | 6076               | 2        | 4430       | 8376  | 43          | 13  | 92          | 28 | 1/3                                | 4.80  | 500   | 3020                           | 13.1         | 13.4 |
| MED291BE | 29170                | 8543               | 2        | 4873       | 8280  | 43          | 13  | 92          | 28 | 1/3                                | 4.80  | 500   | 4200                           | 18.3         | 13.4 |
| MED318BE | 31872                | 9334               | 3        | 7395       | 12564 | 46          | 14  | 98          | 30 | 1/3                                | 7.20  | 750   | 4200                           | 18.3         | 19.3 |
| MED445BE | 44578                | 13056              | 3        | 7310       | 12420 | 46          | 14  | 98          | 30 | 1/3                                | 7.20  | 750   | 4200                           | 18.3         | 19.3 |
| MED531BE | 53149                | 15566              | 4        | 9747       | 16560 | 49          | 15  | 105         | 32 | 1/3                                | 9.60  | 1000  | 5480                           | 23.8         | 25.3 |
| MED601BE | 60105                | 17603              | 4        | 9747       | 16560 | 49          | 15  | 105         | 32 | 1/3                                | 9.60  | 1000  | 5480                           | 23.8         | 25.3 |

## ELECTRIC DEFROST CAPACITIES - 4FPI

### MLD Air Defrost Models 60Hz. With EC Motors

| Model    | Capacity             |                     | Fan Data |            |       |             |    |             |    | EC Motor Data 60Hz<br>208~230V 1Ph |      |       | Defrost Heater<br>(Total Amps) |              |              |
|----------|----------------------|---------------------|----------|------------|-------|-------------|----|-------------|----|------------------------------------|------|-------|--------------------------------|--------------|--------------|
|          | 10°F TD<br>-20°F SST | 6°C TD<br>-29°C SST | No.      | Air Volume |       | Air Throw * |    |             |    | HP                                 | Amps | Watts | Watts                          | 230/<br>1/60 | 230/<br>3/60 |
|          |                      |                     |          |            |       | Wire Guard  |    | Axial Guard |    |                                    |      |       |                                |              |              |
|          | BTUH                 | Watts               |          | CFM        | m³/h  | ft.         | m  | ft.         | m  |                                    |      |       |                                |              |              |
| MLD118BE | 11831                | 3465                | 1        | 2444       | 4152  | 43          | 13 | 88          | 27 | 1/3                                | 2.40 | 250   | 2120                           | 9.2          | 7.4          |
| MLD201BE | 20189                | 5913                | 2        | 4873       | 8280  | 46          | 14 | 95          | 29 | 1/3                                | 4.80 | 500   | 3020                           | 13.1         | 13.4         |
| MLD245BE | 24503                | 7176                | 2        | 4873       | 8280  | 46          | 14 | 95          | 29 | 1/3                                | 4.80 | 500   | 3020                           | 13.1         | 13.4         |
| MLD308BE | 30857                | 9037                | 3        | 7310       | 12420 | 49          | 15 | 105         | 32 | 1/3                                | 7.20 | 750   | 4200                           | 18.3         | 19.3         |
| MLD373BE | 37346                | 10938               | 3        | 7310       | 12420 | 49          | 15 | 105         | 32 | 1/3                                | 7.20 | 750   | 4200                           | 18.3         | 19.3         |
| MLD444BE | 44478                | 13026               | 4        | 9747       | 16560 | 52          | 16 | 112         | 34 | 1/3                                | 9.60 | 1000  | 4200                           | 18.3         | 25.3         |
| MLD502BE | 50257                | 14719               | 4        | 9747       | 16560 | 52          | 16 | 112         | 34 | 1/3                                | 9.60 | 1000  | 5480                           | 23.8         | 25.3         |

\* X: EC motor TXV mounted \* M: EC motor TXV, Solenoid mounted \* Air throw is determined the air velocity 50 FPM.

# CONDENSING UNITS

## CONDENSING UNIT STANDARD FEATURES



- Blue anti-corrosion fin increases the life span of the coil.
- Seamless inner groove copper tube is used to increase the heat exchange rate by reducing the space between the fin and the copper tube.



- Highest quality compressor in the world.



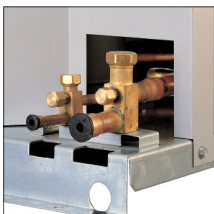
- 1 year compressor warranty (4 year extended warranty available).
- 1 year fan motor and parts warranty.



- Condenser Fan ON/OFF switch controls a condenser fan to keep condensing pressure constant in low ambient for stable operation, minimize formation of flash gas, and prevent compressor damage by controlling high pressure.
- Experienced engineers have designed the system for maximum efficiency.
- Fan blades: Specifically matched with motors and coil for maximum air movement and cooling.



- Control box is designed for easy installation.
- Dual pressure control (Low and High) is adjustable.
- All the parts are compliant with industry standards and interchangeable with readily available parts.
- Wiring: Easily accessible. Compressor comes with a wiring harness that is manufactured with connections that will not come loose with vibration.



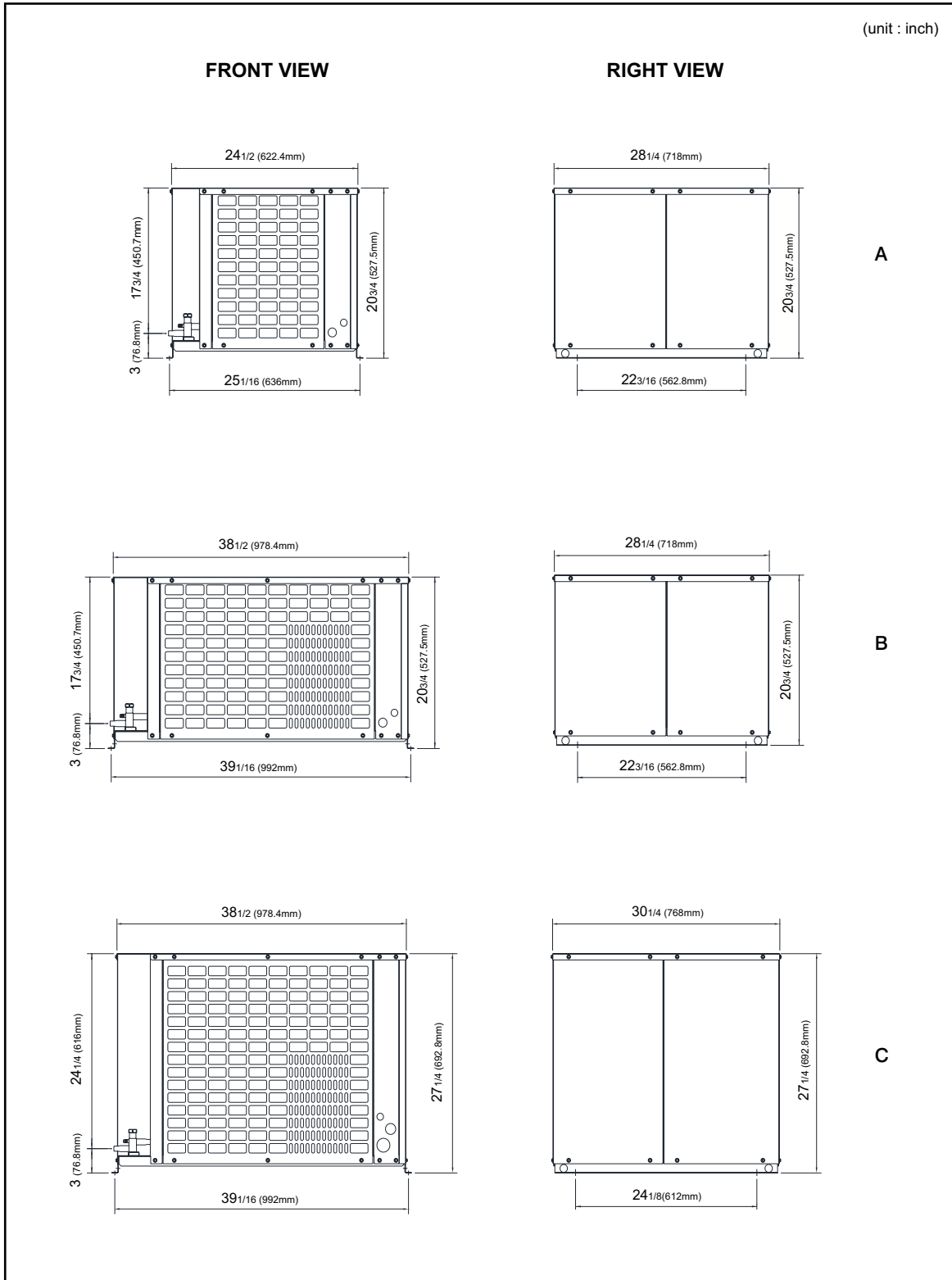
- Control box and service valves are located outside for easy service.
- Base: Heavy duty steel. Legs are 2-1/6" tall.
- Cabinet: Prepainted with galvanized body. Protects against corrosion.
- All products carry UL, cUL, ISO 9001 approvals.



**All Replacement Parts are Universal!**

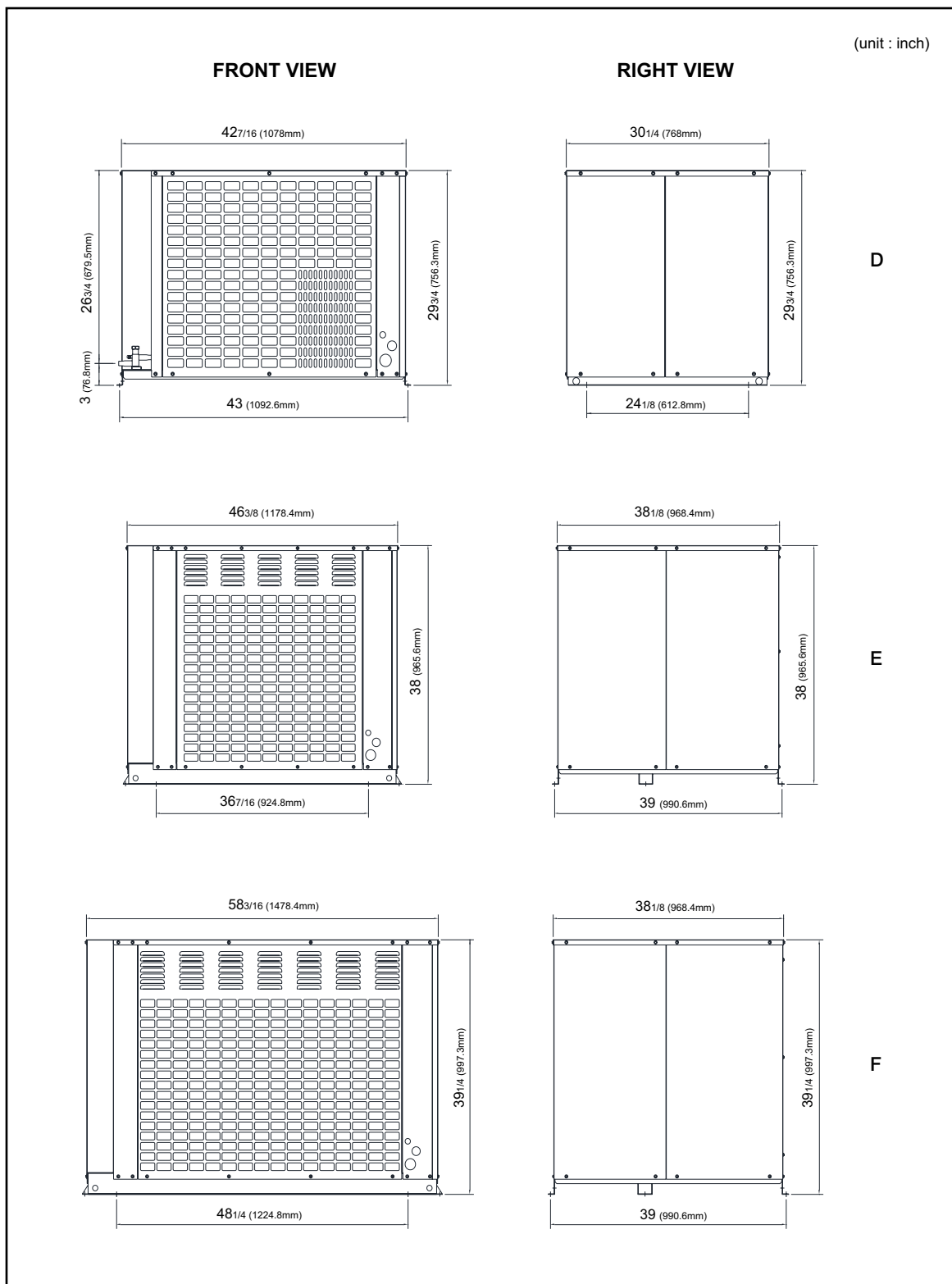
# CONDENSING UNITS

## DIMENSIONAL DATA



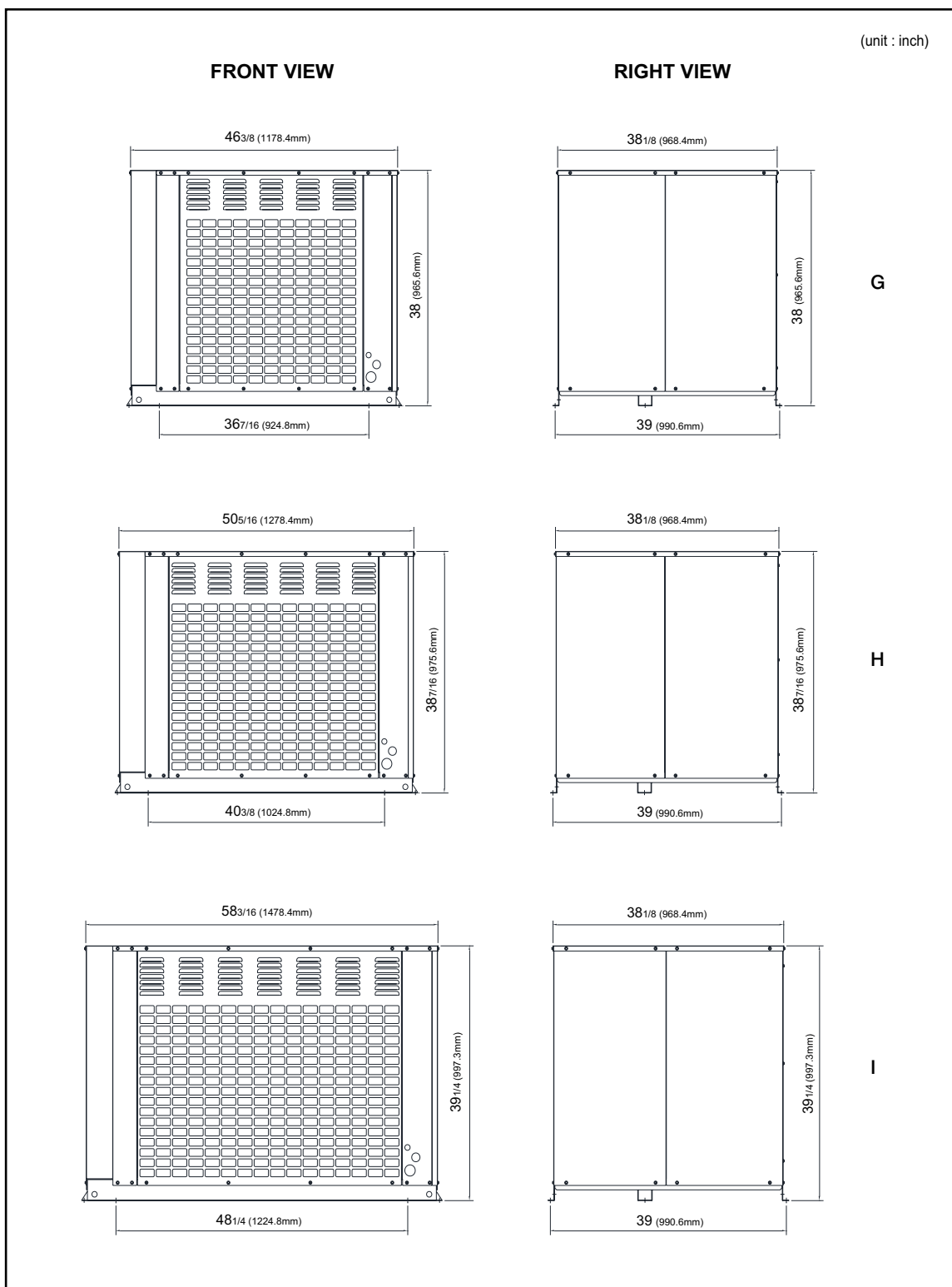
# CONDENSING UNITS

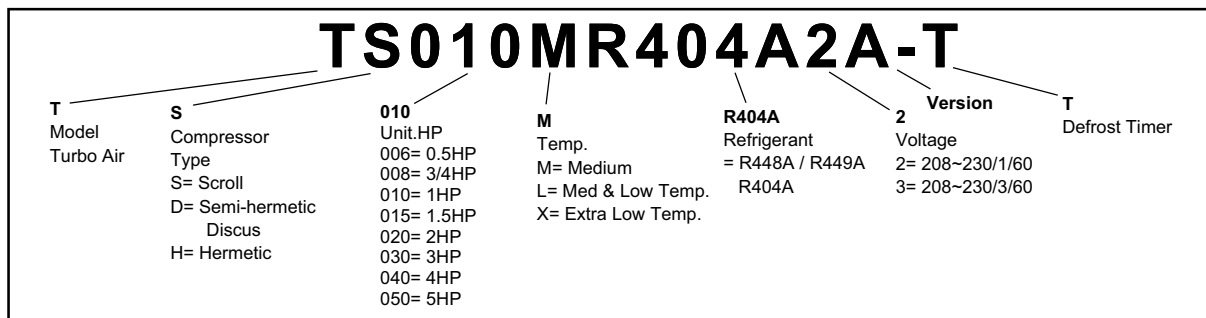
## DIMENSIONAL DATA



# CONDENSING UNITS

## DIMENSIONAL DATA



**CONDENSING UNITS****R448A/449A****MODEL NOMENCLATURE****UNIT SPEC (MEDIUM TEMP.) : SCROLL COMPRESSORS**

| Model           | Fig. * |  | Connections (ID) |         | Receiver<br>90% Full<br>(lbs) | Fan(s) Data |     | Dimensions |         |         | Net<br>Weight<br>(lbs) | Sound<br>dBA** | AWEF      |
|-----------------|--------|-----------------------------------------------------------------------------------|------------------|---------|-------------------------------|-------------|-----|------------|---------|---------|------------------------|----------------|-----------|
|                 |        |                                                                                   | Liquid           | Suction |                               | CFM         | No. | W (in.)    | D (in.) | H (in.) |                        |                |           |
| TS006MR404A#†-T | A      | ZB06KAE                                                                           | 3/8"             | 5/8"    | 8                             | 1503        | 1   | 28.25      | 24.5    | 20.75   | 174                    | 68             | 7.6 / 7.6 |
| TS008MR404A#†-T | A      | ZB08KAE                                                                           | 3/8"             | 5/8"    | 8                             | 1503        | 1   | 28.25      | 24.5    | 20.75   | 173                    | 68             | 7.6 / 7.6 |
| TS010MR404A#†-T | A      | ZS09KAE                                                                           | 3/8"             | 5/8"    | 8                             | 1503        | 1   | 28.25      | 24.5    | 20.75   | 176                    | 68             | 7.6 / 7.6 |
| TS015MR404A#†-T | B      | ZS13KAE                                                                           | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 234                    | 68             | 7.6 / 7.6 |
| TS020MR404A#†-T | B      | ZS15KAE                                                                           | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 234                    | 68             | 7.6 / 7.6 |
| TS025MR404A#†-T | B      | ZS19KAE                                                                           | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 234                    | 68             | 7.6 / 7.6 |
| TS030MR404A#†-T | C      | ZS21KAE                                                                           | 1/2"             | 7/8"    | 18                            | 3794        | 1   | 30.25      | 38.5    | 27.25   | 285                    | 74             | 7.6 / 7.6 |
| TS040MR404A#†-T | C      | ZS29KAE                                                                           | 1/2"             | 1-1/8"  | 18                            | 3764        | 1   | 30.25      | 38.5    | 27.25   | 306                    | 74             | 7.6 / 7.6 |
| TS050MR404A#†-T | D      | ZS38K4E                                                                           | 1/2"             | 1-1/8"  | 18                            | 3809        | 1   | 30.25      | 42.4    | 29.75   | 347                    | 76             | 7.6 / 7.6 |
| TS060MR404A#†-T | D      | ZS45K4E                                                                           | 1/2"             | 1-1/8"  | 18                            | 3809        | 1   | 30.25      | 42.4    | 29.75   | 354                    | 78             | 7.6 / 7.6 |
| TS075MR404A#†-T | F      | ZB66K5E                                                                           | 5/8"             | 1-3/8"  | 31                            | 7557        | 2   | 38.1       | 58.2    | 39.25   | 624                    | 81             | 7.6 / 7.6 |
| TS100MR404A#†-T | F      | ZB95K5E                                                                           | 5/8"             | 1-3/8"  | 43                            | 7557        | 2   | 38.1       | 58.2    | 39.25   | 647                    | 82             | 7.6 / 7.6 |

\*\* : Sound pressure are measured 10 feet from the product.

Note: #: Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / †: Version (A, B, ~) / T: defrost timer

**UNIT SPEC (EXTRA LOW TEMP.) : SCROLL COMPRESSORS**

| Model           | Fig. * |  | Connections (ID) |         | Receiver<br>90% Full<br>(lbs) | Fan(s) Data |     | Dimensions |         |         | Net<br>Weight<br>(lbs) | Sound<br>dBA** | AWEF      |
|-----------------|--------|-------------------------------------------------------------------------------------|------------------|---------|-------------------------------|-------------|-----|------------|---------|---------|------------------------|----------------|-----------|
|                 |        |                                                                                     | Liquid           | Suction |                               | CFM         | No. | W (in.)    | D (in.) | H (in.) |                        |                |           |
| TS010XR404A#†-T | A      | ZF05KAE                                                                             | 3/8"             | 5/8"    | 8                             | 1503        | 1   | 28.25      | 24.5    | 20.75   | 177                    | 68             | 3.0 / 2.9 |
| TS015XR404A#†-T | A      | ZF06KAE                                                                             | 3/8"             | 5/8"    | 8                             | 1503        | 1   | 28.25      | 24.5    | 20.75   | 178                    | 68             | 3.1 / 3.1 |
| TS020XR404A#†-T | B      | ZF06K4E                                                                             | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 241                    | 68             | 3.2 / 3.1 |
| TS025XR404A#†-T | B      | ZF08K4E                                                                             | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 246                    | 68             | 3.2 / 3.2 |
| TS030XR404A#†-T | B      | ZF09K4E                                                                             | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 246                    | 68             | 3.2 / 3.2 |
| TS035XR404A#†-T | B      | ZF11K4E                                                                             | 1/2"             | 7/8"    | 15                            | 2936        | 2   | 28.25      | 38.5    | 20.75   | 250                    | 74             | 3.2 / 3.2 |
| TS045XR404A#†-T | C      | ZF13K4E                                                                             | 1/2"             | 1-1/8"  | 18                            | 3764        | 1   | 30.25      | 38.5    | 27.25   | 322                    | 76             | 3.2 / 3.2 |
| TS055XR404A#†-T | D      | ZF15K4E                                                                             | 1/2"             | 1-1/8"  | 18                            | 3809        | 1   | 30.25      | 42.4    | 29.75   | 346                    | 76             | 3.2 / 3.2 |
| TS060XR404A#†-T | D      | ZF18K4E                                                                             | 1/2"             | 1-1/8"  | 18                            | 3809        | 1   | 30.25      | 42.4    | 29.75   | 353                    | 79             | 3.2 / 3.2 |
| TS075XR404A#†-T | E      | ZF25K4E                                                                             | 1/2"             | 1-1/8"  | 31                            | 3839        | 1   | 38.1       | 46.4    | 38      | 481                    | 80             | 3.2 / 3.2 |
| TS100XR404A#†-T | E      | ZF34K5E                                                                             | 1/2"             | 1-1/8"  | 31                            | 3839        | 1   | 38.1       | 46.4    | 39.25   | 537                    | 82             | 3.2 / 3.2 |

\*\* : Sound pressure are measured 10 feet from the product.

Note: #: Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / †: Version (A, B, ~), T: Defrost timer

# CONDENSING UNITS

# R448A/449A

## UNIT SPEC (LOW TEMP.) : **SEMI-HERMETIC COMPRESSOR**

| Model        | Fig. * |  | Connections (ID) |         | Receiver 90% Full (lbs) | Fan(s) Data |     | Dimensions |         |         | Net Weight (lbs) | Sound dBA** |
|--------------|--------|-----------------------------------------------------------------------------------|------------------|---------|-------------------------|-------------|-----|------------|---------|---------|------------------|-------------|
|              |        |                                                                                   | Liquid           | Suction |                         | CFM         | No. | W (in.)    | D (in.) | H (in.) |                  |             |
| TD040XR404A3 | G      | 2DL3F20KE                                                                         | 1/2"             | 1-1/8"  | 18                      | 3864        | 1   | 38.1       | 46.4    | 38      | 701              | 79          |
| TD060XR404A3 | G      | 3DA3F28KE                                                                         | 1/2"             | 1-1/8"  | 31                      | 3849        | 1   | 38.1       | 46.4    | 38      | 793              | 79          |
| TD075XR404A3 | H      | 3DB3F33KE                                                                         | 1/2"             | 1-1/8"  | 31                      | 3849        | 1   | 38.1       | 50.3    | 38.4    | 813              | 81          |
| TD100XR404A3 | I      | 3DS3F46KE                                                                         | 5/8"             | 1-3/8"  | 43                      | 7557        | 2   | 38.1       | 58.2    | 39.25   | 941              | 82          |

\*\* : Sound pressure are measured 10 feet from the product.

Note: 3 = 3Ph 208~230V 60Hz

## ELECTRICAL DATA (MEDIUM TEMP.) : **SCROLL COMPRESSORS**

| Model           |  | Power Supply |    |    | Compressor |       | Fan Motor | MCA  | MOPD |
|-----------------|-----------------------------------------------------------------------------------|--------------|----|----|------------|-------|-----------|------|------|
|                 |                                                                                   | Volts        | Ph | Hz | RLA        | LRA   | FLA       |      |      |
| TS006MR404A2-T  | ZB06KAE-PFV                                                                       | 208-230      | 1  | 60 | 6.0        | 35.7  | 0.47      | 15.0 | 15   |
| TS008MR404A2-T  | ZB08KAE-PFV                                                                       | 208-230      | 1  | 60 | 8.0        | 47.2  | 0.47      | 15.0 | 15   |
| TS010MR404A2-T  | ZS09KAE-PFV                                                                       | 208-230      | 1  | 60 | 10.0       | 40.3  | 0.47      | 15.0 | 20   |
| TS015MR404A2A-T | ZS13KAE-PFV                                                                       | 208-230      | 1  | 60 | 12.0       | 56.0  | 0.94      | 15.9 | 25   |
| TS015MR404A3A-T | ZS13KAE-TF5                                                                       | 208-230      | 3  | 60 | 9.7        | 58.0  | 0.94      | 15.0 | 20   |
| TS020MR404A2A-T | ZS15KAE-PFV                                                                       | 208-230      | 1  | 60 | 15.7       | 68.0  | 0.94      | 20.6 | 30   |
| TS020MR404A3A-T | ZS15KAE-TF5                                                                       | 208-230      | 3  | 60 | 10.6       | 58.0  | 0.94      | 15.0 | 20   |
| TS025MR404A2A-T | ZS19KAE-PFV                                                                       | 208-230      | 1  | 60 | 18.0       | 75.0  | 0.94      | 23.4 | 40   |
| TS025MR404A3A-T | ZS19KAE-TF5                                                                       | 208-230      | 3  | 60 | 13.7       | 73.0  | 0.94      | 18.1 | 30   |
| TS030MR404A2-T  | ZS21KAE-PFV                                                                       | 208-230      | 1  | 60 | 23.2       | 112.0 | 2.40      | 31.4 | 50   |
| TS030MR404A3-T  | ZS21KAE-TF5                                                                       | 208-230      | 3  | 60 | 15.2       | 93.0  | 2.40      | 21.4 | 30   |
| TS040MR404A2-T  | ZS29KAE-PFV                                                                       | 208-230      | 1  | 60 | 26.1       | 137.0 | 2.40      | 35.0 | 50   |
| TS040MR404A3-T  | ZS29KAE-TF5                                                                       | 208-230      | 3  | 60 | 20.5       | 114.0 | 2.40      | 28.0 | 40   |
| TS050MR404A2A-T | ZS38K4E-PFV                                                                       | 208-230      | 1  | 60 | 31.8       | 169.0 | 2.40      | 42.2 | 70   |
| TS050MR404A3A-T | ZS38K4E-TF5                                                                       | 208-230      | 3  | 60 | 21.4       | 123.0 | 2.40      | 29.2 | 50   |
| TS060MR404A3-T  | ZS45K4E-TF5                                                                       | 208-230      | 3  | 60 | 23.9       | 156.0 | 2.40      | 32.3 | 50   |
| TS075MR404A3-T  | ZB66K5E-TFC                                                                       | 208-230      | 3  | 60 | 39.3       | 225.0 | 4.80      | 53.9 | 70   |
| TS100MR404A3-T  | ZB95K5E-TWC                                                                       | 208-230      | 3  | 60 | 52.9       | 298.0 | 4.80      | 70.9 | 100  |

## ELECTRICAL DATA (EXTRA LOW TEMP.) : **SCROLL COMPRESSORS**

| Model         |  | Power Supply |    |    | Compressor |       | Fan Motor | MCA * | MOPD * |
|---------------|-------------------------------------------------------------------------------------|--------------|----|----|------------|-------|-----------|-------|--------|
|               |                                                                                     | Volts        | Ph | Hz | RLA        | LRA   | FLA       |       |        |
| TS010XR404A2  | ZF05KAE-PFV                                                                         | 208-230      | 1  | 60 | 8.7        | 55.0  | 0.47      | 15.0  | 20     |
| TS015XR404A2  | ZF06KAE-PFV                                                                         | 208-230      | 1  | 60 | 13.6       | 68.0  | 0.47      | 17.5  | 30     |
| TS015XR404A3  | ZF06KAE-TF5                                                                         | 208-230      | 3  | 60 | 8.3        | 58.0  | 0.47      | 15.0  | 20     |
| TS020XR404A2A | ZF06K4E-PFV                                                                         | 208-230      | 1  | 60 | 13.6       | 61.0  | 0.94      | 17.9  | 30     |
| TS020XR404A3A | ZF06K4E-TF5                                                                         | 208-230      | 3  | 60 | 8.3        | 58.0  | 0.94      | 15.0  | 20     |
| TS025XR404A2A | ZF08K4E-PFV                                                                         | 208-230      | 1  | 60 | 16.4       | 73.0  | 0.94      | 21.4  | 30     |
| TS025XR404A3A | ZF08K4E-TF5                                                                         | 208-230      | 3  | 60 | 9.6        | 63.0  | 0.94      | 15.0  | 20     |
| TS030XR404A2A | ZF09K4E-PFV                                                                         | 208-230      | 1  | 60 | 14.3       | 88.0  | 0.94      | 18.8  | 30     |
| TS030XR404A3A | ZF09K4E-TF5                                                                         | 208-230      | 3  | 60 | 9.6        | 77.0  | 0.94      | 15.0  | 20     |
| TS035XR404A2A | ZF11K4E-PFV                                                                         | 208-230      | 1  | 60 | 18.2       | 109.0 | 0.94      | 23.7  | 40     |
| TS035XR404A3A | ZF11K4E-TF5                                                                         | 208-230      | 3  | 60 | 12.1       | 88.0  | 0.94      | 16.1  | 30     |
| TS045XR404A2A | ZF13K4E-PFV                                                                         | 208-230      | 1  | 60 | 25.0       | 129.0 | 2.40      | 33.7  | 60     |
| TS045XR404A3A | ZF13K4E-TF5                                                                         | 208-230      | 3  | 60 | 13.2       | 99.0  | 2.40      | 18.9  | 30     |
| TS055XR404A2A | ZF15K4E-PFV                                                                         | 208-230      | 1  | 60 | 27.5       | 169.0 | 2.40      | 36.8  | 60     |
| TS055XR404A3A | ZF15K4E-TF5                                                                         | 208-230      | 3  | 60 | 18.9       | 123.0 | 2.40      | 26.0  | 40     |
| TS060XR404A3A | ZF18K4E-TF5                                                                         | 208-230      | 3  | 60 | 21.8       | 156.0 | 2.40      | 29.7  | 50     |
| TS075XR404A3A | ZF25K4E-TF5                                                                         | 208-230      | 3  | 60 | 26.7       | 224.0 | 2.40      | 35.8  | 60     |
| TS100XR404A3  | ZF34K5E-TFC                                                                         | 208-230      | 3  | 60 | 37.1       | 239.0 | 2.40      | 48.8  | 80     |

# CONDENSING UNITS

# R448A/449A

## ELECTRICAL DATA (LOW TEMP.) : SEMI-HERMETIC COMPRESSORS

| Model        |  | Power Supply |    |    | Compressor |     | Fan Motor | MCA * | MOPD * |
|--------------|-----------------------------------------------------------------------------------|--------------|----|----|------------|-----|-----------|-------|--------|
|              |                                                                                   | Volts        | Ph | Hz | RLA        | LRA | FLA       |       |        |
| TD040XR404A3 | 2DL3F20KE                                                                         | 208-230      | 3  | 60 | 23.6       | 161 | 2.40      | 31.9  | 50     |
| TD060XR404A3 | 3DA3F28KE                                                                         | 208-230      | 3  | 60 | 24.0       | 150 | 2.40      | 32.4  | 50     |
| TD075XR404A3 | 3DB3F33KE                                                                         | 208-230      | 3  | 60 | 27.6       | 161 | 2.40      | 36.9  | 60     |
| TD100XR404A3 | 3DS3F46KE                                                                         | 208-230      | 3  | 60 | 37.2       | 215 | 4.80      | 51.3  | 80     |

\* : MCA Minimum Circuit Ampacity does not include evaporators electrical requirements (evaporator fan motor amps, defrost heater amps).

## PERFORMANCE DATA (MEDIUM TEMP.) : SCROLL COMPRESSORS

| Model           |  | Capacity BTU/HR @ 90°F. Ambient Suction Temperature °F |        |        |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 40°F                                                   | 30°F   | 25°F   | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#†-T | ZB06KAE                                                                           | 9606                                                   | 7968   | 7254   | 6576  | 5924  | 5314  | 4209  | 3322  |
| TS008MR404A#†-T | ZB08KAE                                                                           | 12880                                                  | 10745  | 9851   | 8850  | 8012  | 7177  | 5762  | 4620  |
| TS010MR404A#†-T | ZS09KAE                                                                           | 13740                                                  | 11230  | 10250  | 9175  | 8326  | 7508  | 6115  | 4888  |
| TS015MR404A#†-T | ZS13KAE                                                                           | 19640                                                  | 16044  | 14443  | 12905 | 11600 | 10522 | 8476  | -     |
| TS020MR404A#†-T | ZS15KAE                                                                           | 23100                                                  | 18980  | 17090  | 15273 | 13770 | 12558 | 10140 | -     |
| TS025MR404A#†-T | ZS19KAE                                                                           | 25500                                                  | 20842  | 18943  | 16985 | 15375 | 14080 | 11395 | -     |
| TS030MR404A#†-T | ZS21KAE                                                                           | 35715                                                  | 30025  | 27478  | 24865 | 22400 | 20385 | 16180 | -     |
| TS040MR404A#†-T | ZS29KAE                                                                           | 45990                                                  | 38953  | 35398  | 32030 | 28880 | 26285 | 20870 | -     |
| TS050MR404A#†-T | ZS38K4E                                                                           | 56710                                                  | 48317  | 44187  | 40113 | 36627 | 32813 | 26533 | 21240 |
| TS060MR404A#†-T | ZS45K4E                                                                           | 67227                                                  | 57210  | 52327  | 48120 | 43840 | 39400 | 31280 | 24267 |
| TS075MR404A#†-T | ZB66K5E                                                                           | 100333                                                 | 84300  | 76900  | 69250 | 62850 | 56450 | 44170 | 32820 |
| TS100MR404A#†-T | ZB95K5E                                                                           | 133600                                                 | 112600 | 101167 | 92567 | 83750 | 74400 | 57500 | 42620 |

| Model           |  | Capacity BTU/HR @ 95°F. Ambient Suction Temperature °F |        |       |       |       |       |       |       |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                     | 40°F                                                   | 30°F   | 25°F  | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#†-T | ZB06KAE                                                                             | 9198                                                   | 7686   | 6998  | 6300  | 5672  | 5086  | 4054  | 3204  |
| TS008MR404A#†-T | ZB08KAE                                                                             | 12343                                                  | 10320  | 9404  | 8530  | 7732  | 6932  | 5577  | 4440  |
| TS010MR404A#†-T | ZS09KAE                                                                             | 13175                                                  | 10830  | 9888  | 8850  | 8052  | 7280  | 5945  | 4804  |
| TS015MR404A#†-T | ZS13KAE                                                                             | 19021                                                  | 15532  | 13981 | 12493 | 11180 | 10218 | 8266  | -     |
| TS020MR404A#†-T | ZS15KAE                                                                             | 22298                                                  | 18245  | 16540 | 14688 | 13345 | 12189 | 9825  | -     |
| TS025MR404A#†-T | ZS19KAE                                                                             | 24270                                                  | 20117  | 18163 | 16295 | 14863 | 13630 | 11058 | -     |
| TS030MR404A#†-T | ZS21KAE                                                                             | 34390                                                  | 28933  | 26470 | 23940 | 21720 | 19740 | 15455 | -     |
| TS040MR404A#†-T | ZS29KAE                                                                             | 44700                                                  | 37587  | 34140 | 30880 | 27805 | 25273 | 19958 | -     |
| TS050MR404A#†-T | ZS38K4E                                                                             | 54810                                                  | 46650  | 42347 | 38680 | 35360 | 31933 | 25513 | 20640 |
| TS060MR404A#†-T | ZS45K4E                                                                             | 64490                                                  | 54827  | 50513 | 46020 | 41560 | 37360 | 29920 | 23200 |
| TS075MR404A#†-T | ZB66K5E                                                                             | 96167                                                  | 80067  | 73100 | 66500 | 60100 | 53700 | 41830 | 30680 |
| TS100MR404A#†-T | ZB95K5E                                                                             | 128600                                                 | 106200 | 96333 | 86767 | 78350 | 69667 | 54250 | 39720 |

**CONDENSING UNITS****R448A/449A****PERFORMANCE DATA (MEDIUM TEMP.) : *SCROLL* COMPRESSORS**

| Model           |  | Capacity BTU/HR @ 100°F. Ambient Suction Temperature °F |        |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 40°F                                                    | 30°F   | 25°F  | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#†-T | ZB06KAE                                                                           | 8855                                                    | 7401   | 6738  | 6065  | 5458  | 4893  | 3898  | 3060  |
| TS008MR404A#†-T | ZB08KAE                                                                           | 11805                                                   | 9907   | 9108  | 8210  | 7396  | 6687  | 5350  | 4287  |
| TS010MR404A#†-T | ZS09KAE                                                                           | 12550                                                   | 10334  | 9480  | 8590  | 7767  | 7030  | 5770  | 4698  |
| TS015MR404A#†-T | ZS13KAE                                                                           | 18315                                                   | 14917  | 13518 | 12080 | 10900 | 9915  | 8014  | -     |
| TS020MR404A#†-T | ZS15KAE                                                                           | 21285                                                   | 17485  | 15942 | 14298 | 12920 | 11746 | 9615  | -     |
| TS025MR404A#†-T | ZS19KAE                                                                           | 23170                                                   | 19183  | 17513 | 15630 | 14350 | 13090 | 10653 | -     |
| TS030MR404A#†-T | ZS21KAE                                                                           | 33040                                                   | 27750  | 25397 | 22990 | 20700 | 18773 | 14875 | -     |
| TS040MR404A#†-T | ZS29KAE                                                                           | 42600                                                   | 35837  | 32843 | 29500 | 26730 | 24260 | 19045 | -     |
| TS050MR404A#†-T | ZS38K4E                                                                           | 52790                                                   | 44650  | 40813 | 37247 | 33800 | 30533 | 24580 | -     |
| TS060MR404A#†-T | ZS45K4E                                                                           | 61640                                                   | 52880  | 48250 | 43920 | 40040 | 35660 | 28480 | -     |
| TS075MR404A#†-T | ZB66K5E                                                                           | 92000                                                   | 77133  | 69600 | 63167 | 57170 | 50393 | 39430 | 28380 |
| TS100MR404A#†-T | ZB95K5E                                                                           | 120200                                                  | 100600 | 91500 | 81933 | 73850 | 65500 | -     | -     |

| Model           |  | Capacity BTU/HR @ 110°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 40°F                                                    | 30°F  | 25°F  | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#†-T | ZB06KAE                                                                           | 8311                                                    | 6888  | 6268  | 5638  | 5068  | 4540  | 3610  | 2817  |
| TS008MR404A#†-T | ZB08KAE                                                                           | 10949                                                   | 9256  | 8528  | 7698  | 6941  | 6246  | 5008  | -     |
| TS010MR404A#†-T | ZS09KAE                                                                           | 11525                                                   | 9436  | 8720  | 7816  | 7086  | 6440  | 5355  | -     |
| TS015MR404A#†-T | ZS13KAE                                                                           | 16763                                                   | 13783 | 12435 | 11175 | 10126 | 9264  | 7568  | -     |
| TS020MR404A#†-T | ZS15KAE                                                                           | 19445                                                   | 16055 | 14675 | 13040 | 11840 | 10945 | 9024  | -     |
| TS025MR404A#†-T | ZS19KAE                                                                           | 20955                                                   | 17490 | 16063 | 14350 | 13000 | 12038 | 9905  | -     |
| TS030MR404A#†-T | ZS21KAE                                                                           | 30700                                                   | 25772 | 23583 | 21100 | 19140 | 17120 | 13430 | -     |
| TS040MR404A#†-T | ZS29KAE                                                                           | 39680                                                   | 33333 | 30523 | 27340 | 24800 | 22225 | 17490 | -     |
| TS050MR404A#†-T | ZS38K4E                                                                           | 49400                                                   | 41730 | 38160 | 34550 | 31360 | 28380 | 22900 | -     |
| TS060MR404A#†-T | ZS45K4E                                                                           | -                                                       | 49007 | 44650 | 40380 | 36920 | 33220 | -     | -     |
| TS075MR404A#†-T | ZB66K5E                                                                           | 84100                                                   | 71250 | 64000 | 57167 | 51070 | 45413 | -     | -     |
| TS100MR404A#†-T | ZB95K5E                                                                           | -                                                       | -     | 81900 | 73700 | 66150 | 58500 | -     | -     |

Note: # = Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / †: Version (A, B, ~) / T: Defrost timer

**PERFORMANCE DATA (EXTRA LOW TEMP.) : *SCROLL* COMPRESSORS**

| Model           |  | Capacity BTU/HR @ 90°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                     | 0°F                                                    | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                             | 7269                                                   | 5747  | 5106  | 4461  | 3928  | 3406  | 2967  | 2600  |
| TS015XR404A#†-T | ZF06KAE                                                                             | 9330                                                   | 7492  | 6655  | 5936  | 5277  | 4640  | 4063  | 3540  |
| TS020XR404A#†-T | ZF06K4E                                                                             | 11050                                                  | 8815  | 7842  | 6951  | 6120  | 5407  | 4772  | 4198  |
| TS025XR404A#†-T | ZF08K4E                                                                             | 12880                                                  | 10690 | 9670  | 8702  | 7773  | 6850  | 5930  | 5016  |
| TS030XR404A#†-T | ZF09K4E                                                                             | 14125                                                  | 11540 | 10353 | 9290  | 8271  | 7332  | 6411  | 5499  |
| TS035XR404A#†-T | ZF11K4E                                                                             | 17365                                                  | 14060 | 12630 | 11255 | 10042 | 8920  | 7882  | 6955  |
| TS045XR404A#†-T | ZF13K4E                                                                             | 22460                                                  | 17980 | 15840 | 14000 | 12233 | 10740 | 9300  | 8054  |
| TS055XR404A#†-T | ZF15K4E                                                                             | 26800                                                  | 21380 | 18980 | 16777 | 14710 | 12990 | 11310 | 9880  |
| TS060XR404A#†-T | ZF18K4E                                                                             | 32180                                                  | 26100 | 23247 | 20527 | 18220 | 15960 | 14040 | 12187 |
| TS075XR404A#†-T | ZF25K4E                                                                             | 40560                                                  | 32280 | 28887 | 25433 | 22420 | 19753 | 17247 | 15113 |
| TS100XR404A#†-T | ZF34K5E                                                                             | 50620                                                  | 41120 | 36580 | 32590 | 28873 | 25207 | 21880 | 18727 |

| Model           |  | Capacity BTU/HR @ 95°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                     | 0°F                                                    | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                             | 6998                                                   | 5532  | 4885  | 4270  | 3766  | 3268  | 2871  | 2503  |
| TS015XR404A#†-T | ZF06KAE                                                                             | 8972                                                   | 7172  | 6430  | 5746  | 5079  | 4472  | 3920  | 3416  |
| TS020XR404A#†-T | ZF06K4E                                                                             | 10525                                                  | 8492  | 7567  | 6720  | 5960  | 5280  | 4662  | 4108  |
| TS025XR404A#†-T | ZF08K4E                                                                             | 12480                                                  | 10330 | 9370  | 8445  | 7544  | 6648  | 5777  | 4840  |
| TS030XR404A#†-T | ZF09K4E                                                                             | 13750                                                  | 11210 | 10118 | 9032  | 8050  | 7145  | 6242  | 5366  |
| TS035XR404A#†-T | ZF11K4E                                                                             | 16757                                                  | 13603 | 12150 | 10930 | 9694  | 8602  | 7610  | 6716  |
| TS045XR404A#†-T | ZF13K4E                                                                             | 21450                                                  | 17180 | 15260 | 13490 | 11800 | 10373 | 9033  | 7867  |
| TS055XR404A#†-T | ZF15K4E                                                                             | 25720                                                  | 20540 | 18240 | 16245 | 14260 | 12623 | 11010 | 9647  |
| TS060XR404A#†-T | ZF18K4E                                                                             | 30980                                                  | 24960 | 22300 | 19880 | 17600 | 15460 | 13680 | 11970 |
| TS075XR404A#†-T | ZF25K4E                                                                             | 39160                                                  | 31180 | 27700 | 24460 | 21610 | 19200 | 16840 | 14870 |
| TS100XR404A#†-T | ZF34K5E                                                                             | 48760                                                  | 39770 | 35380 | 31540 | 27800 | 24300 | 21110 | 18200 |

# CONDENSING UNITS

# R448A/449A

## PERFORMANCE DATA (EXTRA LOW TEMP.) : **SCROLL** COMPRESSORS

| Model           |  | Capacity BTU/HR @ 100°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                           | 6663                                                    | 5273  | 4700  | 4110  | 3626  | 3148  | 2776  | 2418  |
| TS015XR404A#†-T | ZF06KAE                                                                           | 8612                                                    | 6902  | 6200  | 5513  | 4880  | 4303  | 3800  | 3290  |
| TS020XR404A#†-T | ZF06K4E                                                                           | 10217                                                   | 8207  | 7312  | 6450  | 5760  | 5070  | 4490  | 3986  |
| TS025XR404A#†-T | ZF08K4E                                                                           | 12093                                                   | 10035 | 9119  | 8230  | 7349  | 6478  | 5612  | 4648  |
| TS030XR404A#†-T | ZF09K4E                                                                           | 13317                                                   | 10900 | 9810  | 8805  | 7860  | 6970  | 6072  | 5196  |
| TS035XR404A#†-T | ZF11K4E                                                                           | 15770                                                   | 13023 | 11733 | 10496 | 9389  | 8333  | 7380  | 6511  |
| TS045XR404A#†-T | ZF13K4E                                                                           | 20413                                                   | 16480 | 14660 | 12940 | 11320 | 9928  | 8760  | 7734  |
| TS055XR404A#†-T | ZF15K4E                                                                           | 24813                                                   | 19840 | 17640 | 15720 | 13810 | 12130 | 10675 | 9444  |
| TS060XR404A#†-T | ZF18K4E                                                                           | 29460                                                   | 23827 | 21340 | 19100 | 17000 | 15060 | 13320 | 11790 |
| TS075XR404A#†-T | ZF25K4E                                                                           | 37427                                                   | 29860 | 26700 | 23660 | 20960 | 18600 | 16540 | 14720 |
| TS100XR404A#†-T | ZF34K5E                                                                           | 46860                                                   | 38000 | 33860 | 30247 | 26900 | 23550 | 20590 | 17700 |

| Model           |  | Capacity BTU/HR @ 110°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                           | 6215                                                    | 4883  | 4358  | 3810  | 3369  | 2932  | 2576  | 2263  |
| TS015XR404A#†-T | ZF06KAE                                                                           | 7888                                                    | 6470  | 5786  | 5159  | 4547  | 4045  | 3560  | 3104  |
| TS020XR404A#†-T | ZF06K4E                                                                           | 9467                                                    | 7590  | 6762  | 5954  | 5284  | 4693  | 4123  | 3673  |
| TS025XR404A#†-T | ZF08K4E                                                                           | 11327                                                   | 9519  | 8657  | 7822  | 6950  | 6149  | 5272  | 4347  |
| TS030XR404A#†-T | ZF09K4E                                                                           | 12537                                                   | 10300 | 9270  | 8307  | 7392  | 6505  | 5629  | 4813  |
| TS035XR404A#†-T | ZF11K4E                                                                           | 14880                                                   | 12250 | 10983 | 9812  | 8736  | 7767  | 6930  | 6123  |
| TS045XR404A#†-T | ZF13K4E                                                                           | 18920                                                   | 15173 | 13413 | 11900 | 10536 | 9348  | 8380  | 7558  |
| TS055XR404A#†-T | ZF15K4E                                                                           | 23133                                                   | 18580 | 16583 | 14720 | 13067 | 11610 | 10237 | 9106  |
| TS060XR404A#†-T | ZF18K4E                                                                           | 27120                                                   | 22147 | 19900 | 17900 | 16100 | 14387 | 12873 | 11540 |
| TS075XR404A#†-T | ZF25K4E                                                                           | 35373                                                   | 28100 | 25080 | 22380 | 19953 | 17900 | 16100 | 14667 |
| TS100XR404A#†-T | ZF34K5E                                                                           | 43790                                                   | 35300 | 31520 | 28207 | 25160 | 22120 | 19360 | 16833 |

Note: # = Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / †: Version (A, B, ~) / T: Defrost timer

# CONDENSING UNITS

# R448A/449A

## PERFORMANCE DATA (LOW TEMP.) : SEMI-HERMETIC COMPRESSORS

| Model        |  | Capacity BTU/HR @ 90°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|--------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                   | 0°F                                                    | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                         | 30460                                                  | 24156 | 20996 | 18110 | 15654 | 13250 | 11143 | 9181  |
| TD060XR404A3 | 3DA3F28KE                                                                         | 44532                                                  | 35004 | 30480 | 26484 | 22892 | 19772 | 16992 | 14142 |
| TD075XR404A3 | 3DB3F33KE                                                                         | 56076                                                  | 43892 | 38764 | 33728 | 29524 | 25632 | 21648 | 18064 |
| TD100XR404A3 | 3DS3F46KE                                                                         | 75992                                                  | 58752 | 51416 | 44800 | 38808 | 32964 | 27588 | 23028 |

| Model        |  | Capacity BTU/HR @ 95°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|--------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                   | 0°F                                                    | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                         | 29148                                                  | 22540 | 19812 | 17262 | 14714 | 12450 | 10434 | 8575  |
| TD060XR404A3 | 3DA3F28KE                                                                         | 41796                                                  | 33132 | 28800 | 24924 | 21164 | 18130 | 15492 | 12952 |
| TD075XR404A3 | 3DB3F33KE                                                                         | 53636                                                  | 41732 | 36724 | 31768 | 27656 | 23880 | 19968 | 16480 |
| TD100XR404A3 | 3DS3F46KE                                                                         | 71656                                                  | 56384 | 49208 | 42200 | 36416 | 30676 | 25404 | 20900 |

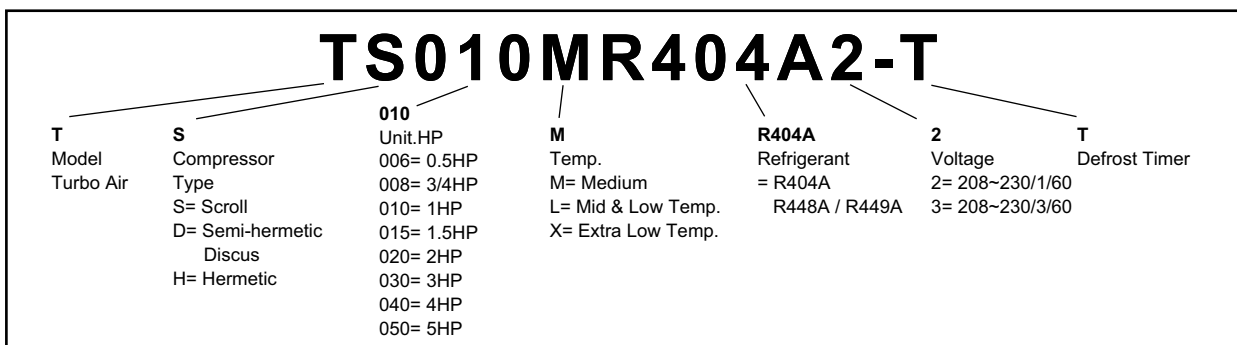
| Model        |  | Capacity BTU/HR @ 100°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|--------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                   | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                         | 27444                                                   | 21452 | 18592 | 16186 | 13782 | 11650 | 9738  | 8003  |
| TD060XR404A3 | 3DA3F28KE                                                                         | 39948                                                   | 31212 | 27040 | 23316 | 19992 | 17026 | 14212 | 11976 |
| TD075XR404A3 | 3DB3F33KE                                                                         | 51196                                                   | 39572 | 34668 | 30200 | 26152 | 22080 | 18208 | 14480 |
| TD100XR404A3 | 3DS3F46KE                                                                         | 67976                                                   | 52704 | 45848 | 39600 | 33976 | 28788 | 23124 | 18662 |

| Model        |  | Capacity BTU/HR @ 110°F. Ambient Suction Temperature °F |       |       |       |       |       |       |       |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                     | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                           | 24580                                                   | 19168 | 16844 | 14446 | 12310 | 10370 | 8682  | 7160  |
| TD060XR404A3 | 3DA3F28KE                                                                           | 36660                                                   | 28080 | 24188 | 20680 | 17528 | 14734 | 12044 | 9692  |
| TD075XR404A3 | 3DB3F33KE                                                                           | 47404                                                   | 36140 | 31340 | 26672 | 22768 | 19200 | 15408 | 11775 |
| TD100XR404A3 | 3DS3F46KE                                                                           | 62016                                                   | 47696 | 41240 | 35248 | 29360 | 24420 | 19348 | 14988 |

# CONDENSING UNITS

# R404A

## MODEL NOMENCLATURE



## PERFORMANCE DATA (MEDIUM TEMP.) : SCROLL COMPRESSORS

| Model           |  | Capacity BTU/HR @ 90°F. Ambient Suction Temperature °F. |        |        |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 40°F                                                    | 30°F   | 25°F   | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#T-T | ZB06KAE                                                                           | 9877                                                    | 8229   | 7476   | 6760  | 6090  | 5512  | 4394  | 3530  |
| TS008MR404A#T-T | ZB08KAE                                                                           | 13215                                                   | 10835  | 9911   | 9010  | 8250  | 7490  | 6142  | 4814  |
| TS010MR404A#T-T | ZS09KAE                                                                           | 13880                                                   | 11900  | 11060  | 10113 | 9266  | 8472  | 6913  | 5447  |
| TS015MR404A#T-T | ZS13KAE                                                                           | 17808                                                   | 16790  | 15358  | 13890 | 12658 | 11503 | 9372  | 7510  |
| TS020MR404A#T-T | ZS15KAE                                                                           | 23373                                                   | 20100  | 18650  | 17075 | 15625 | 14260 | 11625 | 9111  |
| TS025MR404A#T-T | ZS19KAE                                                                           | 25487                                                   | 21910  | 20300  | 18600 | 17210 | 15600 | 12785 | 10107 |
| TS030MR404A#T-T | ZS21KAE                                                                           | 34920                                                   | 29900  | 27520  | 25420 | 23275 | 21260 | 17328 | 13543 |
| TS040MR404A#T-T | ZS29KAE                                                                           | 44500                                                   | 38140  | 35020  | 32100 | 29635 | 26840 | 22027 | 17290 |
| TS050MR404A#T-T | ZS38K4E                                                                           | 54650                                                   | 46920  | 43690  | 39910 | 36650 | 33600 | 27760 | 22800 |
| TS060MR404A#T-T | ZS45K4E                                                                           | 63850                                                   | 54600  | 50820  | 46860 | 43055 | 39530 | 33160 | 27280 |
| TS075MR404A#T-T | ZB66K5E                                                                           | 101340                                                  | 86860  | 80440  | 73700 | 68180 | 61820 | 50880 | 41020 |
| TS100MR404A#T-T | ZB95K5E                                                                           | 131633                                                  | 113100 | 104920 | 97127 | 89867 | 82300 | 67520 | 53320 |

| Model           |  | Capacity BTU/HR @ 95°F. Ambient Suction Temperature °F. |        |       |       |       |       |       |       |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                     | 40°F                                                    | 30°F   | 25°F  | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#T-T | ZB06KAE                                                                             | 9400                                                    | 7862   | 7154  | 6480  | 5840  | 5248  | 4214  | 3360  |
| TS008MR404A#T-T | ZB08KAE                                                                             | 12543                                                   | 10310  | 9377  | 8615  | 7903  | 7188  | 5860  | 4586  |
| TS010MR404A#T-T | ZS09KAE                                                                             | 13320                                                   | 11383  | 10495 | 9691  | 8876  | 8112  | 6673  | 5182  |
| TS015MR404A#T-T | ZS13KAE                                                                             | 16933                                                   | 15965  | 14620 | 13240 | 12070 | 10980 | 8894  | 7207  |
| TS020MR404A#T-T | ZS15KAE                                                                             | 22467                                                   | 19190  | 17657 | 16300 | 14938 | 13660 | 11133 | 8665  |
| TS025MR404A#T-T | ZS19KAE                                                                             | 24220                                                   | 20960  | 19447 | 17840 | 16480 | 15080 | 12248 | 9616  |
| TS030MR404A#T-T | ZS21KAE                                                                             | 33220                                                   | 28587  | 26340 | 24127 | 22250 | 20360 | 16590 | 12900 |
| TS040MR404A#T-T | ZS29KAE                                                                             | 42367                                                   | 36373  | 33427 | 30700 | 28105 | 25690 | 20925 | 16270 |
| TS050MR404A#T-T | ZS38K4E                                                                             | 51900                                                   | 44570  | 41540 | 37960 | 34875 | 32040 | 26540 | 21800 |
| TS060MR404A#T-T | ZS45K4E                                                                             | 60600                                                   | 52360  | 48800 | 44560 | 40980 | 37680 | 31700 | 26160 |
| TS075MR404A#T-T | ZB66K5E                                                                             | 95940                                                   | 82427  | 76487 | 70167 | 64400 | 59020 | 48530 | 38740 |
| TS100MR404A#T-T | ZB95K5E                                                                             | 123850                                                  | 106600 | 99020 | 91660 | 84783 | 77600 | -     | -     |

Note: # = Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / T: Version (A, B, ~) / T: Defrost timer

**CONDENSING UNITS****R404A****PERFORMANCE DATA (MEDIUM TEMP.) : SCROLL COMPRESSORS**

| Model           |  | Capacity BTU/HR @ 100°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 40°F                                                     | 30°F  | 25°F  | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#†-T | ZB06KAE                                                                           | 8830                                                     | 7418  | 6758  | 6190  | 5582  | 5066  | 4029  | 3190  |
| TS008MR404A#†-T | ZB08KAE                                                                           | 12013                                                    | 9896  | 9019  | 8220  | 7558  | 6883  | 5630  | 4399  |
| TS010MR404A#†-T | ZS09KAE                                                                           | 12620                                                    | 10867 | 10052 | 9317  | 8554  | 7770  | 6387  | 4922  |
| TS015MR404A#†-T | ZS13KAE                                                                           | 16011                                                    | 15107 | 13850 | 12563 | 11471 | 10350 | 8484  | 6892  |
| TS020MR404A#†-T | ZS15KAE                                                                           | 21107                                                    | 18340 | 17070 | 15683 | 14380 | 13040 | 10640 | 8240  |
| TS025MR404A#†-T | ZS19KAE                                                                           | 23207                                                    | 20010 | 18630 | 17293 | 15880 | 14537 | -     | -     |
| TS030MR404A#†-T | ZS21KAE                                                                           | 31520                                                    | 27320 | 25240 | 23193 | 21450 | 19467 | -     | -     |
| TS040MR404A#†-T | ZS29KAE                                                                           | 40233                                                    | 34807 | 32060 | 29533 | 27050 | 24667 | 20025 | 15470 |
| TS050MR404A#†-T | ZS38K4E                                                                           | 49150                                                    | 42180 | 39370 | 36000 | 33100 | 30440 | 25240 | 20800 |
| TS060MR404A#†-T | ZS45K4E                                                                           | 57300                                                    | 49510 | 45650 | 42180 | 39280 | 35810 | 29900 | 24960 |
| TS075MR404A#†-T | ZB66K5E                                                                           | 90540                                                    | 77960 | 72453 | 67233 | 61050 | 55473 | -     | -     |
| TS100MR404A#†-T | ZB95K5E                                                                           | 115600                                                   | 99830 | 93010 | 86193 | 79700 | 72900 | -     | -     |

| Model           |  | Capacity BTU/HR @ 110°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 40°F                                                     | 30°F  | 25°F  | 20°F  | 15°F  | 10°F  | 0°F   | -10°F |
| TS006MR404A#†-T | ZB06KAE                                                                           | 8062                                                     | 6814  | 6225  | 5656  | 5108  | 4592  | 3660  | 2839  |
| TS008MR404A#†-T | ZB08KAE                                                                           | 10802                                                    | 8976  | 8291  | 7500  | 6937  | 6340  | 5216  | -     |
| TS010MR404A#†-T | ZS09KAE                                                                           | 11570                                                    | 10131 | 9343  | 8674  | 8039  | 7338  | 5925  | -     |
| TS015MR404A#†-T | ZS13KAE                                                                           | 14536                                                    | 13547 | 12425 | 11273 | 10442 | 9438  | 7681  | 6283  |
| TS020MR404A#†-T | ZS15KAE                                                                           | 19500                                                    | 17030 | 15655 | 14573 | 13435 | 12260 | -     | -     |
| TS025MR404A#†-T | ZS19KAE                                                                           | 21300                                                    | 18550 | 17320 | 16030 | 14800 | 13503 | -     | -     |
| TS030MR404A#†-T | ZS21KAE                                                                           | 29100                                                    | 25260 | 23550 | 21700 | 20010 | 18267 | -     | -     |
| TS040MR404A#†-T | ZS29KAE                                                                           | 37080                                                    | 32070 | 29600 | 27433 | 25250 | 23167 | -     | -     |
| TS050MR404A#†-T | ZS38K4E                                                                           | 44550                                                    | 38300 | 35385 | 32800 | 30180 | 27490 | 22850 | 18940 |
| TS060MR404A#†-T | ZS45K4E                                                                           | -                                                        | 44800 | 41370 | 38320 | 35350 | 32690 | 27360 | 22800 |
| TS075MR404A#†-T | ZB66K5E                                                                           | 82820                                                    | 71670 | 65150 | 60633 | 55690 | 50620 | -     | -     |
| TS100MR404A#†-T | ZB95K5E                                                                           | -                                                        | -     | -     | 76700 | 71050 | 64040 | -     | -     |

Note: # = Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / †: Version (A, B, ~) / T: Defrost timer

**PERFORMANCE DATA (LOW TEMP.) : SCROLL COMPRESSORS**

| Model           |  | Capacity BTU/HR @ 90°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                     | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                             | 7644                                                    | 6112  | 5457  | 4894  | 4327  | 3822  | 3367  | 2951  |
| TS015XR404A#†-T | ZF06KAE                                                                             | 9660                                                    | 7864  | 7134  | 6370  | 5718  | 5114  | 4510  | 3964  |
| TS020XR404A#†-T | ZF06K4E                                                                             | 11500                                                   | 9473  | 8561  | 7704  | 6846  | 6094  | 5380  | 4702  |
| TS025XR404A#†-T | ZF08K4E                                                                             | 14150                                                   | 11600 | 10609 | 9530  | 8533  | 7612  | 6760  | 5961  |
| TS030XR404A#†-T | ZF09K4E                                                                             | 15560                                                   | 12870 | 11700 | 10513 | 9511  | 8432  | 7479  | 6592  |
| TS035XR404A#†-T | ZF11K4E                                                                             | 18700                                                   | 15380 | 14020 | 12650 | 11430 | 10316 | 9160  | 8086  |
| TS045XR404A#†-T | ZF13K4E                                                                             | 23500                                                   | 19153 | 17320 | 15380 | 13653 | 12000 | 10567 | 9244  |
| TS055XR404A#†-T | ZF15K4E                                                                             | 28640                                                   | 23487 | 21147 | 19040 | 17033 | 15053 | 13400 | 11820 |
| TS060XR404A#†-T | ZF18K4E                                                                             | 33130                                                   | 27270 | 24700 | 22260 | 20120 | 17780 | 15827 | 13867 |
| TS075XR404A#†-T | ZF25K4E                                                                             | 41820                                                   | 34110 | 30940 | 27727 | 24760 | 22040 | 19567 | 17310 |
| TS100XR404A#†-T | ZF34K5E                                                                             | 52000                                                   | 42960 | 38800 | 35200 | 31740 | 28200 | 24887 | 21820 |

| Model           |  | Capacity BTU/HR @ 95°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                     | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                             | 7274                                                    | 5817  | 5192  | 4615  | 4127  | 3648  | 3219  | 2823  |
| TS015XR404A#†-T | ZF06KAE                                                                             | 9127                                                    | 7452  | 6777  | 6060  | 5448  | 4838  | 4270  | 3794  |
| TS020XR404A#†-T | ZF06K4E                                                                             | 11000                                                   | 9092  | 8158  | 7350  | 6586  | 5864  | 5170  | 4509  |
| TS025XR404A#†-T | ZF08K4E                                                                             | 13500                                                   | 11100 | 10063 | 9056  | 8120  | 7314  | 6445  | 5682  |
| TS030XR404A#†-T | ZF09K4E                                                                             | 14847                                                   | 12320 | 11200 | 10078 | 9060  | 8035  | 7134  | 6294  |
| TS035XR404A#†-T | ZF11K4E                                                                             | 17540                                                   | 14640 | 13367 | 12100 | 10980 | 9812  | 8728  | 7710  |
| TS045XR404A#†-T | ZF13K4E                                                                             | 22500                                                   | 18360 | 16450 | 14740 | 13080 | 11500 | 10100 | 8824  |
| TS055XR404A#†-T | ZF15K4E                                                                             | 27340                                                   | 22460 | 20260 | 18120 | 16220 | 14480 | 12900 | 11387 |
| TS060XR404A#†-T | ZF18K4E                                                                             | 31680                                                   | 26120 | 23700 | 21380 | 19220 | 17140 | 15280 | 13400 |
| TS075XR404A#†-T | ZF25K4E                                                                             | 40020                                                   | 32660 | 29450 | 26420 | 23630 | 21245 | 18900 | 16760 |
| TS100XR404A#†-T | ZF34K5E                                                                             | 48947                                                   | 40980 | 37440 | 33700 | 30440 | 27050 | 23860 | 20760 |

# CONDENSING UNITS

# R404A

## PERFORMANCE DATA (LOW TEMP.) : SCROLL COMPRESSORS

| Model           |  | Capacity BTU/HR @ 100°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 0°F                                                      | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                           | 6820                                                     | 5458  | 4926  | 4380  | 3881  | 3432  | 3033  | 2688  |
| TS015XR404A#†-T | ZF06KAE                                                                           | 8593                                                     | 7039  | 6414  | 5747  | 5127  | 4608  | 4071  | 3590  |
| TS020XR404A#†-T | ZF06K4E                                                                           | 10503                                                    | 8630  | 7818  | 7050  | 6326  | 5634  | 4924  | 4285  |
| TS025XR404A#†-T | ZF08K4E                                                                           | 12833                                                    | 10578 | 9595  | 8653  | 7770  | 6942  | 6170  | 5388  |
| TS030XR404A#†-T | ZF09K4E                                                                           | 14080                                                    | 11620 | 10578 | 9542  | 8680  | 7700  | 6839  | 6034  |
| TS035XR404A#†-T | ZF11K4E                                                                           | 16573                                                    | 13873 | 12700 | 11500 | 10365 | 9371  | 8357  | 7390  |
| TS045XR404A#†-T | ZF13K4E                                                                           | 21260                                                    | 17560 | 15700 | 14090 | 12480 | 11000 | 9655  | 8360  |
| TS055XR404A#†-T | ZF15K4E                                                                           | 25753                                                    | 21200 | 19360 | 17320 | 15520 | 13880 | 12240 | 10850 |
| TS060XR404A#†-T | ZF18K4E                                                                           | 29847                                                    | 24720 | 22700 | 20480 | 18420 | 16490 | 14680 | 12860 |
| TS075XR404A#†-T | ZF25K4E                                                                           | 37860                                                    | 30927 | 28200 | 25320 | 22680 | 20315 | 18120 | 16150 |
| TS100XR404A#†-T | ZF34K5E                                                                           | 46380                                                    | 38880 | 35233 | 32100 | 28800 | 25640 | 22600 | 19860 |

| Model           |  | Capacity BTU/HR @ 110°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|-----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                                                                   | 0°F                                                      | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TS010XR404A#†-T | ZF05KAE                                                                           | 6136                                                     | 4912  | 4440  | 3948  | 3499  | 3099  | 2744  | 2437  |
| TS015XR404A#†-T | ZF06KAE                                                                           | -                                                        | -     | 5760  | 5183  | 4647  | 4148  | 3685  | 3296  |
| TS020XR404A#†-T | ZF06K4E                                                                           | 9633                                                     | 8033  | 7297  | 6543  | 5882  | 5247  | 4587  | 3980  |
| TS025XR404A#†-T | ZF08K4E                                                                           | 11633                                                    | 9612  | 8719  | 7873  | 7080  | 6336  | 5635  | 4966  |
| TS030XR404A#†-T | ZF09K4E                                                                           | 12853                                                    | 10540 | 9612  | 8696  | 7930  | 7040  | 6263  | 5524  |
| TS035XR404A#†-T | ZF11K4E                                                                           | 14960                                                    | 12800 | 11633 | 10420 | 9387  | 8424  | 7523  | 6736  |
| TS045XR404A#†-T | ZF13K4E                                                                           | 19500                                                    | 16013 | 14373 | 12900 | 11467 | 10130 | 8911  | 7745  |
| TS055XR404A#†-T | ZF15K4E                                                                           | 23567                                                    | 19493 | 17647 | 15787 | 14180 | 12733 | 11233 | 9981  |
| TS060XR404A#†-T | ZF18K4E                                                                           | 27340                                                    | 22800 | 20780 | 18807 | 16980 | 15120 | 13480 | 11967 |
| TS075XR404A#†-T | ZF25K4E                                                                           | 34620                                                    | 28633 | 25920 | 23393 | 21040 | 18970 | 17050 | 15330 |
| TS100XR404A#†-T | ZF34K5E                                                                           | 42160                                                    | 35520 | 32247 | 29100 | 26100 | 23300 | 20500 | 18053 |

Note: #: Phase, 2 = 1Ph 208~230V 60Hz, 3 = 3Ph 208~230V 60Hz / †: Version (A, B, ~) / T: Defrost timer

## PERFORMANCE DATA (LOW TEMP.) : SEMI-HERMETIC COMPRESSORS

| Model        |  | Capacity BTU/HR @ 90°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                     | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                           | 32207                                                   | 26447 | 23700 | 21280 | 18700 | 16320 | 14160 | 12080 |
| TD060XR404A3 | 3DA3F28KE                                                                           | 46100                                                   | 38100 | 33820 | 30180 | 26670 | 23450 | 20500 | 17810 |
| TD075XR404A3 | 3DB3F33KE                                                                           | 57500                                                   | 46460 | 41690 | 37220 | 33050 | 28880 | 25260 | 21640 |
| TD100XR404A3 | 3DS3F46KE                                                                           | 77500                                                   | 63900 | 57500 | 50900 | 45500 | 40260 | 35340 | 30500 |

| Model        |  | Capacity BTU/HR @ 95°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                     | 0°F                                                     | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                           | 29727                                                   | 24813 | 22200 | 19967 | 17600 | 15300 | 13200 | 11180 |
| TD060XR404A3 | 3DA3F28KE                                                                           | 43600                                                   | 35633 | 31980 | 28547 | 25280 | 22180 | 19300 | 16660 |
| TD075XR404A3 | 3DB3F33KE                                                                           | 54707                                                   | 44700 | 40100 | 35480 | 31180 | 27480 | 23640 | 20340 |
| TD100XR404A3 | 3DS3F46KE                                                                           | 73667                                                   | 60867 | 55000 | 48740 | 43480 | 38100 | 33360 | 29000 |

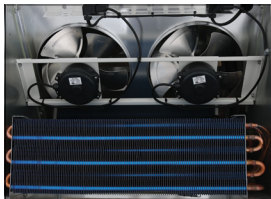
| Model        |  | Capacity BTU/HR @ 100°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                     | 0°F                                                      | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                           | -                                                        | 23180 | 21000 | 18633 | 16400 | 14260 | 12204 | 10280 |
| TD060XR404A3 | 3DA3F28KE                                                                           | 41100                                                    | 33980 | 30487 | 27133 | 24000 | 21073 | 18000 | 15420 |
| TD075XR404A3 | 3DB3F33KE                                                                           | 51840                                                    | 42060 | 37753 | 33693 | 29573 | 26000 | 22580 | 19040 |
| TD100XR404A3 | 3DS3F46KE                                                                           | 70600                                                    | 58333 | 52153 | 46280 | 41300 | 36100 | 31620 | 27440 |

| Model        |  | Capacity BTU/HR @ 110°F. Ambient Suction Temperature °F. |       |       |       |       |       |       |       |
|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|              |                                                                                     | 0°F                                                      | -10°F | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F |
| TD040XR404A3 | 2DL3F20KE                                                                           | -                                                        | -     | -     | 16767 | 14480 | 12553 | 10636 | 8845  |
| TD060XR404A3 | 3DA3F28KE                                                                           | -                                                        | -     | 27500 | 24307 | 21333 | 18460 | 15807 | 12980 |
| TD075XR404A3 | 3DB3F33KE                                                                           | -                                                        | 38540 | 34660 | 30513 | 26960 | 23553 | 20267 | 16773 |
| TD100XR404A3 | 3DS3F46KE                                                                           | -                                                        | 52633 | 46873 | 41960 | 37300 | 32787 | 28140 | 23733 |

Note: 2=1Ph 208~230V 60Hz, 3=3Ph 208~230V 60Hz

# PACKAGE REFRIGERATION UNITS **SMART 7**

## PACKAGE UNIT STANDARD FEATURES



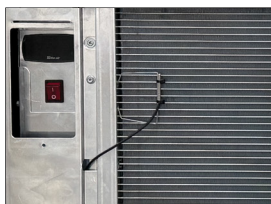
■ **SM 1: Blue Anti-corrosion-fin and Coated Copper Tube**

Protects aluminum and copper pipes from toxic gases generated from foods, retards refrigerant leakage, and prolongs the cooling capacity.



■ **SM 2: Expansion Valve & Solenoid Valve**

Allows safe storage of foods with a feature that self-adjusts the circulation of refrigerant as the internal temperature changes, thus recovering the required temperature quickly. And protects compressor from preventing liquid refrigerant flood back to compressor.



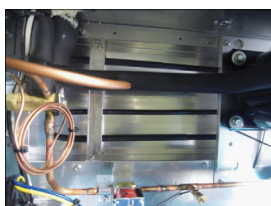
■ **SM 4: Efficient Micro Channel Condenser Coil**

Higher efficiency from larger heat transfer area compare to fin and tube condenser coil. Compact and lighter structure reduces weight of the unit. Improved durability and corrosion resistance than traditional copper-aluminum coils.



■ **SM 5: Energy Efficient EC Motor**

Through the use of highly efficient EC motors, our products reduce energy consumption and lower electricity costs, thus protecting the environment. Our products are designed with easy-to-replace motor and fan blades.



■ **SM 6: Leak Free Patented Hot Gas Condensate System**

The hot gas condensate system is an ideal system because of its fast evaporation of condensed water and its enhancing refrigeration efficiency. In spite of these advantages, many companies have stopped the application of such a system because of the high risk of discarding the refrigerators due to the rapid corrosion of hot gas lines causing refrigerant leakage and water inflow into the cooling pipes. Such problems are completely resolved in our products, thanks to a patented technology that prevents pipes from corrosion.



■ **SM 7: Highly Efficient Air Circulation Enclosure**

This system is designed to release hot air to the outside faster than competitors' and to enhance cooling efficiency. At the same time, it retards elevation of compressor temperature and keeps refrigerant pressure from increasing, thus saving energy as a result.



**All Replacement Parts are Universal!**

## DIMENSIONAL DATA

(unit : inch)

Figure A. Panel Opening Size: 25" x 25"

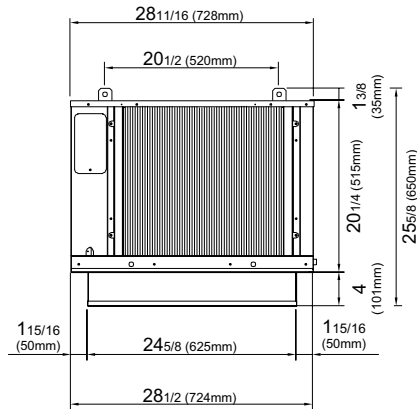
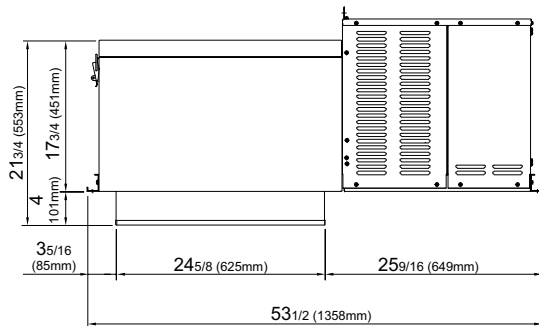
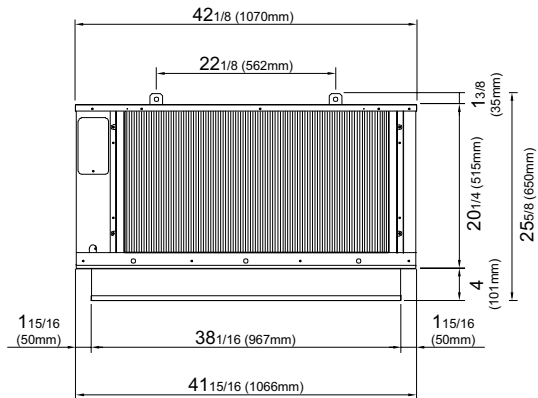
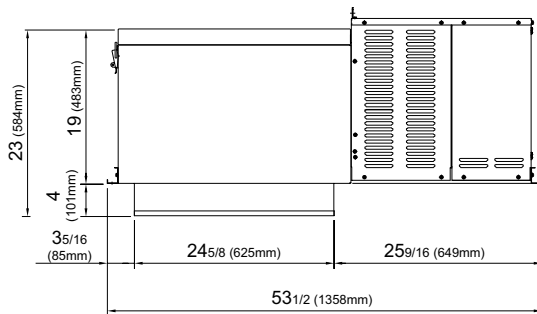


Figure B. Panel Opening Size: 25" x 38 1/2"



Note : Outdoor models are provided with a top hood.

# PACKAGE REFRIGERATION UNITS

## MODEL NOMENCLATURE

| S                                      | T                       | I                | 055                                       | M                | P                                                      | 2 |
|----------------------------------------|-------------------------|------------------|-------------------------------------------|------------------|--------------------------------------------------------|---|
| Model                                  | Location                | Capacity         | Temp.                                     | Refrigerant      | Voltage                                                |   |
| Turbo air<br>Top Mount<br>Package Unit | I= Indoor<br>X= Outdoor | *= BTUH<br>x 100 | M= Medium<br>Temp.<br><br>L= Low<br>Temp. | P=R290 (Propane) | 2= 208-230V<br>1PH 60Hz<br><br>3= 208-230V<br>3PH 60Hz |   |

## TOP MOUNT PACKAGE UNIT

### Performance Data - Medium Temperature Models, Air Defrost (R-290)

| Model     |  | Capacity BTU / HR (Ambient Temp) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------|-------------------------------------------------------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                                                                     | 80°F                             |       |       | 90°F  |       |       | 95°F  |       |       | 100°F |       |       | 110°F |       |       |
|           |                                                                                     | Room Temperature °F              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|           |                                                                                     | 34°F                             | 35°F  | 38°F  | 34°F  | 35°F  | 38°F  | 34°F  | 35°F  | 38°F  | 34°F  | 35°F  | 38°F  | 34°F  | 35°F  | 38°F  |
| ST*055MP2 | NEU6217U                                                                            | 6041                             | 6178  | 6449  | 5659  | 5788  | 6039  | 5425  | 5549  | 5829  | 5266  | 5386  | 5616  | 4899  | 5011  | 5266  |
| ST*078MP2 | NTX6225UV                                                                           | 8598                             | 8799  | 9254  | 8005  | 8194  | 8625  | 7676  | 7859  | 8276  | 7415  | 7593  | 7928  | 6829  | 6996  | 7374  |
| ST*110MP2 | NEU6217U                                                                            | 12005                            | 12278 | 12816 | 11242 | 11497 | 11996 | 10771 | 11016 | 11573 | 10453 | 10691 | 11147 | 9715  | 9938  | 10443 |
| ST*155MP2 | NTX6225UV                                                                           | 17064                            | 17463 | 18368 | 15878 | 16254 | 17110 | 15221 | 15585 | 16312 | 14699 | 15053 | 15718 | 13529 | 13859 | 14609 |

### Performance Data - Low Temperature Models, Hot Gas Defrost (R-290)

| Model     |  | Capacity BTU / HR (Ambient Temp) |       |       |      |       |       |      |       |       |       |       |       |       |       |       |
|-----------|-------------------------------------------------------------------------------------|----------------------------------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                                                                                     | 80°F                             |       |       | 90°F |       |       | 95°F |       |       | 100°F |       |       | 110°F |       |       |
|           |                                                                                     | Room Temperature °F              |       |       |      |       |       |      |       |       |       |       |       |       |       |       |
|           |                                                                                     | 0°F                              | -10°F | -20°F | 0°F  | -10°F | -20°F | 0°F  | -10°F | -20°F | 0°F   | -10°F | -20°F | 0°F   | -10°F | -20°F |
| ST*025LP2 | NT2180UV                                                                            | 3708                             | 2852  | 2147  | 3362 | 2618  | 1976  | 3282 | 2539  | 1919  | 3139  | 2435  | 1843  | 2876  | 2235  | -     |
| ST*038LP2 | NTX2211UV                                                                           | 5476                             | 4330  | 3347  | 5026 | 3965  | 3055  | 4801 | 3782  | 2909  | 4576  | 3599  | 2735  | 4171  | 3272  | -     |
| ST*050LP2 | NT2180UV                                                                            | 7363                             | 5666  | 4266  | 6670 | 5196  | 3924  | 6507 | 5039  | 3809  | 6222  | 4826  | 3652  | 5692  | 4423  | -     |
| ST*075LP2 | NTX2211UV                                                                           | 10861                            | 8587  | 6635  | 9963 | 7856  | 6051  | 9512 | 7491  | 5759  | 9062  | 7126  | 5412  | 8253  | 6472  | -     |

# PACKAGE REFRIGERATION UNITS

## UNIT SPECIFICATIONS - MEDIUM TEMPERATURE MODELS, Air Defrost (R-290)

| Model     | Power Supply |    |    | MCA  | MOPD | Unit Amps | Evaporator fan Qty/CFM | Plug Supplied | Matching NEMA Receptacle | Dim. Fig. | Sound dBA ** | Net Weight lbs (kg)   | AWEF       |
|-----------|--------------|----|----|------|------|-----------|------------------------|---------------|--------------------------|-----------|--------------|-----------------------|------------|
|           | Voltage      | PH | Hz |      |      |           |                        |               |                          |           |              |                       |            |
| ST*055MP2 | 208-230      | 1  | 60 | 7.9  | 15   | 6.6       | 982                    | † YES         | 6-15R                    | A         |              | 219 (99) / 233 (106)  | 5.61 / 7.6 |
| ST*078MP2 | 208-230      | 1  | 60 | 10.0 | 15   | 8.3       | 982                    | † YES         | 6-15R                    | A         |              | 218 (99) / 231 (105)  | 5.61 / 7.6 |
| ST*110MP2 | 208-230      | 1  | 60 | 13.9 | 20   | 12.6      | 1625                   | † YES         | 6-20R                    | B         |              | 300 (136) / 317 (144) | 5.61 / 7.6 |
| ST*155MP2 | 208-230      | 1  | 60 | 17.7 | 25   | 16.0      | 1625                   | NO            | -                        | B         |              | 300 (136) / 317 (144) | 5.61 / 7.6 |

## UNIT SPECIFICATIONS - LOW TEMPERATURE MODELS, Hot Gas Defrost (R-290)

| Model     | Power Supply |    |    | MCA  | MOPD | Unit Amps | Evaporator fan Qty/CFM | Plug Supplied | Matching NEMA Receptacle | Dim. Fig. | Sound dBA ** | Net Weight lbs (kg)   | AWEF        |
|-----------|--------------|----|----|------|------|-----------|------------------------|---------------|--------------------------|-----------|--------------|-----------------------|-------------|
|           | Voltage      | PH | Hz |      |      |           |                        |               |                          |           |              |                       |             |
| ST*025LP2 | 208-230      | 1  | 60 | 7.6  | 15   | 6.4       | 1033                   | † YES         | 6-15R                    | A         |              | 216 (98) / 230 (104)  | 2.01 / 2.00 |
| ST*038LP2 | 208-230      | 1  | 60 | 9.1  | 15   | 7.6       | 1033                   | † YES         | 6-15R                    | A         |              | 216 (98) / 230 (104)  | 2.21 / 2.10 |
| ST*050LP2 | 208-230      | 1  | 60 | 13.4 | 20   | 12.2      | 1647                   | † YES         | 6-20R                    | B         |              | 288 (131) / 305 (138) | 2.21 / 2.20 |
| ST*075LP2 | 208-230      | 1  | 60 | 16.1 | 25   | 14.6      | 1647                   | NO            | -                        | B         |              | 288 (131) / 305 (138) | 2.40 / 3.15 |

\* : I For Indoor Unit, X For Outdoor Unit. †: Plug Supplied on Indoor Unit only.

# PRODUCT AND SERVICE

## IMPORTANT PRODUCT AND SERVICES DETAILS

We want to provide the information you need to take advantage of the great products and services in this catalog. Please check our website or call our toll free number for more information.

### ■ **Changes:**

- Price, products and offers in the catalog may change without notice.
- Turbo Air cannot be responsible for pricing or other errors and reserves the right to cancel orders arising from such errors.

### ■ **Prices:**

- Our catalog prices do not include taxes and other fees (applicable for U.S. only).

### ■ **Shipping and Handling Charges:**

- Turbo Air will **offer free shipping and handling** under the following conditions:
  - The amount of one order is more than U.S. \$8,000.(Please be noted that you will have to ship all your items to a single U.S. address to receive free shipping and handling charges.)

### ■ **Warranties:**

- 1 year parts and 1 year compressor warranty on condensing units and unit coolers. Labor not included. (4 year extended warranty available for compressor: total 5 years)
- 2 year parts and 2 year compressor and 1 year labor on packaged refrigeration units. (Smart 7) (3 year extended warranty available for compressor: total 5 years)

*For more details, please refer to the "Warranty Statement" on our website - [www.turboairinc.net](http://www.turboairinc.net)*

### ■ **Exchange and Returns:**

Under the following conditions, you can return the ordered products without any charge:

- Received wrong item(s) due to our errors.
- Delivery delayed more than 3 days from promised date.
- Signs of external damage on arrival

If any of our product(s) do not meet your expectations, you may return them within 7 days after receiving the return confirmation from Turbo Air. The returned product(s) must be insured and prepaid. Please enclose your copy of the invoice or packing slip with the return. Please indicate whether you wish to exchange for another product(s), receive credit, or request a full refund of the purchase price. All products must be in new condition with original packaging and all included accessories. Please note there is a 20% restocking and repacking fee from the purchase price.

### ■ **Freight Damage:**

Inspection of the shipment is the consignee's obligation. Please make sure you are receiving the right merchandise in good condition upon delivery. When in doubt, write a note of "Damaged" on the delivery receipt before signing it. Notify the carrier and file a claim for any concealed damage. Please retain all cartons and product for inspection. Turbo Air is willing to assist and support you in filing your claim, but you must take the action of filing the claim.

# WARRANTY STATEMENT

## PACKAGE REFRIGERATION SYSTEMS (Smart 7)

Turbo Air Corp. warrants that package refrigeration products conform to the manufacturer's specifications and be free of defects in material and quality. Should any defects occur, Turbo Air Corp. will correct the defects subject to the following conditions.

**PARTS:** Two years from the date of installation or 30 months from the date of shipment, whichever occurs first. A proof of installation date is required if more than two years. If unit(s) is/are shipped directly to end user or installer, the warranty period is limited to two years.

**COMPRESSOR:** Two years from the date of installation or thirty months from the date of shipment, whichever comes first, Turbo Air, Corp. will supply a new compressor. During the two year warranty period, Turbo Air, Corp. limits to one compressor ONLY. Replacement compressor comes with one year warranty covered by the supplier. If a second replacement compressor is needed within a year, the warranty must be claimed to the supplier directly. If unit(s) is/are shipped directly to end user or installer, the warranty period is limited to two years.

If the extended warranty is purchased, it is extended to three years from the end date of factory warranty. Turbo Air, Corp. supplies ONLY one compressor during this period. Replacement compressor comes with one year warranty covered by the supplier as well. If a second replacement compressor is needed within a year, the warranty MUST be claimed to the supplier directly.

**LABOR:** For one year from date of sale or installation, Turbo Air Corp. can arrange a service technician to diagnose and resolve the issue of the unit.

**PROOF OF PURCHASE:** Copy of the proof of purchase is required to make this warranty valid. Alternatively, a valid manufacturer's serial number of the unit is required.

## REMOTE REFRIGERATION SYSTEMS

Turbo Air Corp. warrants that remote refrigeration products conform to the manufacturer's specifications and be free of defects in material and workmanship. Should any defects occur, Turbo Air Corp. will correct the defects subject to the following conditions.

**PARTS:** If unit(s) is/are shipped directly to end user or installer, the warranty period is limited to one year.

**COMPRESSOR:** One year from the date of installation or twenty months from the date of shipment, whichever comes first, Turbo Air, Corp. will supply a new compressor. During the one year warranty period, Turbo Air, Corp. limits to one compressor ONLY. Replacement compressor comes with one year warranty covered by the supplier as well. If a second replacement compressor is needed within a year, the warranty must be claimed to the supplier directly. If unit(s) is/are shipped directly to end user or installer, the warranty period is limited to one year.

If the extended warranty is purchased, it is extended to four years from the end date of factory warranty. Turbo Air, Corp. supplies ONLY one compressor during this period. Replacement compressor comes with one year warranty covered by the supplier as well. If a second replacement compressor is needed within a year, the warranty MUST be claimed to the supplier directly.

**PROOF OF PURCHASE:** Copy of the proof of purchase is required to make this warranty valid, or a valid manufacturer's serial number of the unit is required.

### THIS WARRANTY DOES NOT COVER LABOR OR:

- Shipping damage.
- System installation.
- Unpacking and/or removal of protective shipping material.
- Usage outside manufacturer's limitations as specified in the owner's manual.
- Service required as a result of improper installation, incorrect or insufficient AC supply voltage.
- Installation, set up, or adjustments of consumer controls.
- Any owner than the original owner.
- Damage from modification into other products.
- Any failure, loss, damage or personal injury due to accident, neglect, or abuse by the consumer, or to improper operation, maintenance or storage or to alteration or to failure to follow normal procedures as outlined in the instruction manual.
- Any unit purchased from an unauthorized dealer, any online retailer or not directly from Turbo Air.
- Transportation charges incurred in connection with warranty service.
- Indirect, consequential, or special damages, except as required by Federal or State laws.
- Repair or replacement of warranted part by other than qualified installer.

**THE WARRANTY AND REMEDY STATED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW EXCLUSION OF IMPLIED WARRANTY, THEREFORE THIS WARRANTY SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH LAWS.**

Some states do not allow limitation on how long an implied warranty lasts; therefore these limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights. You may also have other rights that may vary from state to state. This warranty applies to the United States (AK and HI excluded).



01A2025

REFRIGERATION SYSTEM  
***Turbo air***

4184 E. Conant St. Long Beach, CA 90808  
Toll Free. 1-888-900-1002 Fax. 310-900-1088

***[www.turboairinc.net](http://www.turboairinc.net)***