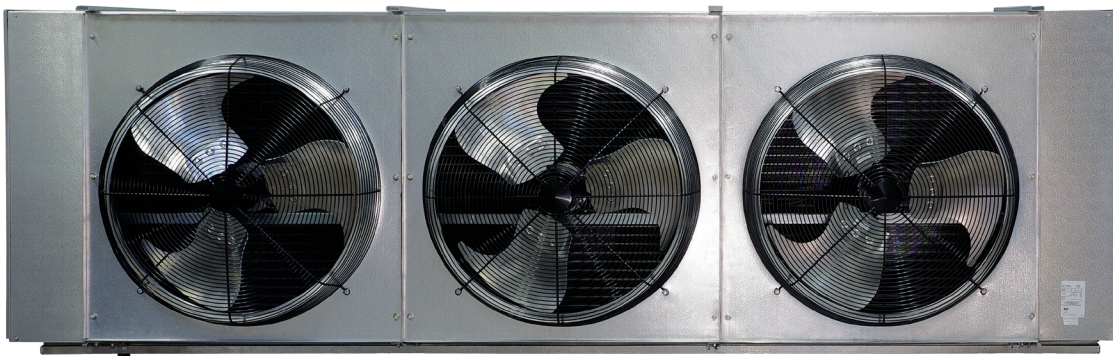




# A2L WAREHOUSE UNIT COOLER



## Walk-Ins: Medium to Large Cooler and Freezer Applications

Warehouse Unit Coolers are designed exclusively for applications  
3,000 sq. ft. and larger.

**Air Defrost**

**42,000 to 291,000 BTUH**

**Electric Defrost**

**42,000 to 293,800 BTUH**



### FEATURES

Our Warehouse Unit Coolers are the ideal evaporator solution for large walk-in coolers and freezers. Designed with efficiency, performance and service in mind, it's optimized to cover Cold Storage applications in the most effective way. They feature rail-mount three-phase motors with standard or high static pressure prop fan blades. All units are circuited for multiple refrigerants and feature optimized circuit patterns to maximize performance.

Warehouse Unit Coolers have several enhanced service features including new high efficiency fan and venturi designs, enhanced surface coil tubing, easily removable fan guards and modular fan panels, face mount defrost heaters, hinged drain pans and shipping pallets designed to facilitate easy installation.

Warehouse models are designed exclusively for use in walk-in coolers and freezers 3,000 sq. feet and larger and fall outside of the July 2020 Department of Energy Factor (AEWF) regulations.

### SIZES

There are a wide array of sizes to match your specific application requirements ranging from 32,000 to 293,800 BTUH at a 10°F TD. Models are available with air flow spanning a range of 6,875 to 27,500 CFM.

### HOUSING

Each unit is constructed with a rust-free, textured, aluminum housing which is light weight yet extremely durable. Models feature hinged drain pans to allow for convenient servicing and maintenance. Hanger holes are provided on all units for fast installation.

### COIL

Seamless copper tubes are staggered and mechanically expanded into corrugated aluminum fins to assure maximum heat transfer. Die formed fin collars are provided for accurate fin spacing. Heavy gauge hangers are fastened directly to the tube sheet of the coil to provide high structural strength. Low Temp Electric Defrost and Hot Gas Defrost Models are available in both 6 FPI and 4 FPI. Medium Temp Electric Defrost and Air Defrost models are available in 6 FPI.

### MOTORS

Models are offered with three-phase motors with standard or high static pressure prop fan blades.

### FANS & FAN GUARDS

Powerful heavy-duty aluminum fans are individually balanced to provide vibration free operation. Standard heavy gauge wire fan guards are UL/cUL-approved epoxy coated for corrosion resistance. High-static pressure prop fan blades are also available. Air throw for Warehouse Unit Coolers is 120 ft. with standard fan. If you require a high-static fan prop in an application above freezing, please contact factory.

### REFRIGERANTS

Warehouse Unit Coolers are optimized for multiple refrigerants including R454A, R454C and R455A. Please specify system refrigerant requirements when ordering. A separate compartment is provided for all refrigerant connections which allows ample room for internal mounting of expansion valves.

## AIR DEFROST

Air Defrost models are designed for use in coolers at +35°F and warmer.

## ELECTRIC DEFROST - MEDIUM TEMP

Medium Temperature Electric Defrost Models are designed for use in coolers between +11°F and +35°F. Defrost heaters are mounted on the air intake side of the unit for optimal performance and easy maintenance. An additional heater is installed inside the drain pan for fast, reliable drainage. Adjustable defrost termination, fan delay and heater safety controls are factory mounted for optimum performance of each control function.

## ELECTRIC DEFROST - LOW TEMP

Low Temperature Electric Defrost Models are designed for use in freezers between +10°F and -30°F. Defrost heaters are mounted on the air intake side of the unit for optimal performance and easy maintenance. An additional heater is installed inside the drain pan for fast, reliable drainage. Adjustable defrost termination, fan delay and heater safety controls are factory mounted for optimum performance of each control function.

## ELECTRICAL

Available in 208-230V/3 or 460V/3. A large compartment is supplied for all electrical components and is easily accessible by removing the end panel. All models are UL and cUL listed.

## OPTIONAL FEATURES

- EcoNet® Enabled Controller<sup>1</sup> (factory-installed)
- EcoNet® Command Center (loose)
- Thermostat - Mechanical or Electric (mounted or loose)
- Thermostatic Expansion Valve (mounted or loose)
- Electronic Expansion Valve (mounted or loose)
- Safety Shut Off Valve (SSOV) in place Liquid Line Solenoid Available Loose for field installation.
- Insulated Drain Pan
- Painted Cabinet (White or Black)
- Stainless Steel Cabinet
- Coated Coil (Russproof, Heresite, Bronz-Glow, or Electrofin®)

1. EcoNet® Control Package includes: EEV, suction pressure transducer, suction entering air coil temp. thermistors, local on-board two-row backlit LCD display and push-button adjustments. (Controller replaces TXV, liquid line solenoid valve, room thermostat, defrost termination, fan delay, and time clock.)

## ECONET® ENABLED UNIT COOLERS (OPTIONAL)

- Developed in conjunction with Rheem Manufacturing specifically for walk-in coolers and freezers — it builds on the reliability and efficiency of Rheem's EcoNet® technology
- Saves energy in refrigeration systems through precise superheat and space temperature control, fan cycling, and controlling how often the system goes into defrost based on compressor runtime
- Eliminates unnecessary defrosts
- Maximizes energy efficiency with less compressor runtime
- Reduces fan speed to 50% during off cycle for energy savings
- Can be used with a condensing unit in single and multiple evaporator installations as a group
- Optional EcoNet® Command Center with intuitive graphical interface controls up to 32 devices (including the Command Center) through one display, continuous communication between system components, and remote mount display allows for EcoNet® Enabled Unit Coolers to be programmed, monitored and troubleshot outside of space being cooled.



## MODEL NOMENCLATURE

| R           | A                 | W                                           | 6                   | E                                                                            | 143               | E                                | T                                                        | A       |
|-------------|-------------------|---------------------------------------------|---------------------|------------------------------------------------------------------------------|-------------------|----------------------------------|----------------------------------------------------------|---------|
| Brand       | Refrigerant Class | Style                                       | Fins per Inch (FPI) | Defrost Type                                                                 | BTUH in Thousands | Unit Voltage                     | Motor Type                                               | Vintage |
| R = Russell | A = A2L           | W = Warehouse<br>Z = Opposite Hand W (LEFT) | 4 FPI<br>6 FPI      | A = Air<br>D = Medium Temp Electric Defrost<br>E = Low Temp Electric Defrost | XXX               | E = 208-230/3/60<br>G = 460/3/60 | T = 3-Phase<br>H = 3-Phase with High-Static <sup>1</sup> |         |

EcoNet® approved refrigerants are: R454A, R454C, R455A

<sup>1</sup> If you require a High-Static fan blade in an application above freezing, please contact factory.

## APPLICATION RATING &amp; ELECTRICAL DATA

AIR DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No. |             | BTUH Capacity<br>@ 25°F SST & 10°F TD | CFM    | No. of<br>Fans | 208-230V/3           | 460V/3 |
|-----------|-------------|---------------------------------------|--------|----------------|----------------------|--------|
|           |             | R454A/R454C/<br>R455A                 |        |                | Total Fan Motor Amps |        |
| 6 FPI     | RAW6A042*TA | 42,000                                | 7,080  | 1              | 4.1                  | 2      |
|           | RAW6A057*TA | 57,200                                | 7,010  | 1              | 4.1                  | 2      |
|           | RAW6A072*TA | 71,700                                | 6,875  | 1              | 4.1                  | 2      |
|           | RAW6A084*TA | 84,100                                | 14,160 | 2              | 8.2                  | 4      |
|           | RAW6A116*TA | 116,000                               | 14,030 | 2              | 8.2                  | 4      |
|           | RAW6A143*TA | 144,000                               | 13,750 | 2              | 8.2                  | 4      |
|           | RAW6A173*TA | 173,000                               | 21,040 | 3              | 12.3                 | 6      |
|           | RAW6A216*TA | 216,000                               | 20,625 | 3              | 12.3                 | 6      |
|           | RAW6A235*TA | 235,100                               | 28,050 | 4              | 16.4                 | 8      |
|           | RAW6A291*TA | 291,000                               | 27,500 | 4              | 16.4                 | 8      |

| Model No. |             | 208-230V/3 |      |                  |      | 460V/3     |      |                  |      |
|-----------|-------------|------------|------|------------------|------|------------|------|------------------|------|
|           |             | Base Model |      | EcoNet® Enabled¹ |      | Base Model |      | EcoNet® Enabled¹ |      |
|           |             | MCA        | MOPD | MCA              | MOPD | MCA        | MOPD | MCA              | MOPD |
| 6 FPI     | RAW6A042*TA | 15         | 20   | 15               | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A057*TA | 15         | 20   | 15               | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A072*TA | 15         | 20   | 15               | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A084*TA | 15         | 20   | 15               | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A116*TA | 15         | 20   | 15               | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A143*TA | 15         | 20   | 15               | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A173*TA | 15         | 20   | 15.3             | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A216*TA | 15         | 20   | 15.3             | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A235*TA | 17.4       | 20   | 19.4             | 20   | 15         | 20   | 15               | 20   |
|           | RAW6A291*TA | 17.4       | 20   | 19.4             | 20   | 15         | 20   | 15               | 20   |

\* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.

¹ 208-230 ratings include 2 amp for controls on EcoNet® Enabled units. 460 ratings include 1 amp for controls on EcoNet® Enabled units.

APPLICATION RATING & ELECTRICAL DATA

MEDIUM TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No. |             | BTUH Capacity<br>@ +25°F SST & 10°F TD | CFM    | No. of Fans | 208-230V/3           | 460V/3 |
|-----------|-------------|----------------------------------------|--------|-------------|----------------------|--------|
|           |             | R454A/R454C/R454A                      |        |             | Total Fan Motor Amps |        |
| 6 FPI     | RAW6D042*TA | 42,000                                 | 7,080  | 1           | 4.1                  | 2      |
|           | RAW6D057*TA | 57,200                                 | 7,010  | 1           | 4.1                  | 2      |
|           | RAW6D072*TA | 72,000                                 | 6,875  | 1           | 4.1                  | 2      |
|           | RAW6D084*TA | 84,000                                 | 14,160 | 2           | 8.2                  | 4      |
|           | RAW6D116*TA | 116,000                                | 14,030 | 2           | 8.2                  | 4      |
|           | RAW6D144*TA | 144,000                                | 13,750 | 2           | 8.2                  | 4      |
|           | RAW6D174*TA | 174,000                                | 21,040 | 3           | 12.3                 | 6      |
|           | RAW6D216*TA | 216,000                                | 20,625 | 3           | 12.3                 | 6      |
|           | RAW6D235*TA | 235,000                                | 28,050 | 4           | 16.4                 | 8      |
|           | RAW6D292*TA | 293,800                                | 27,500 | 4           | 16.4                 | 8      |

\* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.

## APPLICATION RATING &amp; ELECTRICAL DATA

MEDIUM TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No. |             | 208-230V/3 |      |                 |      |                 |                  |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                  |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Per Circuit | Total Heater Amps |              |
| 6 FPI     | RAW6D042ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5             | 14.5              | 6,000        |
|           | RAW6D057ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5             | 14.5              | 6,000        |
|           | RAW6D072ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5             | 14.5              | 6,000        |
|           | RAW6D084ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9             | 28.9              | 12,000       |
|           | RAW6D116ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9             | 28.9              | 12,000       |
|           | RAW6D144ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9             | 28.9              | 12,000       |
|           | RAW6D174ETA | 15         | 20   | 56.2            | 60   | 1               | 43.4             | 43.4              | 18,000       |
|           | RAW6D216ETA | 15         | 20   | 56.2            | 60   | 1               | 43.4             | 43.4              | 18,000       |
|           | RAW6D235ETA | 17.4       | 20   | 74.3            | 80   | 2               | 28.9             | 57.8              | 24,000       |
|           | RAW6D292ETA | 17.4       | 20   | 74.3            | 80   | 2               | 28.9             | 57.8              | 24,000       |

208-230 ratings include 2 amp for controls on EcoNet® Enabled units.

| Model No. |             | 460V/3     |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 6 FPI     | RAW6D042GTA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6D057GTA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6D072GTA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6D084GTA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6D116GTA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6D144GTA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6D174GTA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW6D216GTA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW6D235GTA | 15         | 20   | 38.7            | 40   | 1               | 30.2              | 30.2              | 24,000       |
|           | RAW6D292GTA | 15         | 20   | 38.7            | 40   | 1               | 30.2              | 30.2              | 24,000       |

460 ratings include 1 amp for controls on EcoNet® Enabled units.

APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No. |             | BTUH Capacity<br>@ -20°F SST & 10°F TD <sup>1</sup> | CFM    | No. of<br>Fans | 208-230V/3           | 460V/3 |
|-----------|-------------|-----------------------------------------------------|--------|----------------|----------------------|--------|
|           |             | R454A/R454C/R454A                                   |        |                | Total Fan Motor Amps |        |
| 6 FPI     | RAW6E044*TA | 44,000                                              | 7,080  | 1              | 4.1                  | 2      |
|           | RAW6E057*TA | 57,000                                              | 7,010  | 1              | 4.1                  | 2      |
|           | RAW6E071*TA | 71,000                                              | 6,875  | 1              | 4.1                  | 2      |
|           | RAW6E087*TA | 87,000                                              | 14,160 | 2              | 8.2                  | 4      |
|           | RAW6E114*TA | 114,000                                             | 14,030 | 2              | 8.2                  | 4      |
|           | RAW6E142*TA | 142,000                                             | 13,750 | 2              | 8.2                  | 4      |
|           | RAW6E170*TA | 170,000                                             | 21,040 | 3              | 12.3                 | 6      |
|           | RAW6E215*TA | 214,900                                             | 20,625 | 3              | 12.3                 | 6      |
|           | RAW6E256*TA | 255,900                                             | 27,500 | 4              | 16.4                 | 8      |

\* Asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.

| Capacity Correction for Low Temp Electric Defrost |       |        |       |        |       |
|---------------------------------------------------|-------|--------|-------|--------|-------|
| SST (Dew)                                         | 0°F   | -10°F  | -20°F | -30°F  | -40°F |
| Multiply Capacity by:                             | 1.075 | 1.0375 | 1     | 0.9625 | 0.925 |

<sup>1</sup> Capacity values adjusted using the Correction Table for Electric Defrost Evaporators.

## APPLICATION RATING &amp; ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No. |             | 208-230V/3 |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 6 FPI     | RAW6E044ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW6E057ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW6E071ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW6E087ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW6E114ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW6E142ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW6E170ETA | 15         | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW6E215ETA | 15         | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW6E256ETA | 17.4       | 30   | 74.3            | 80   | 2               | 28.9              | 57.8              | 24,000       |

208-230 ratings include 2 amp for controls on EcoNet® Enabled units.

| Model No. |             | 460V/3     |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 6 FPI     | RAW6E044GTA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6E057GTA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6E071GTA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6E087GTA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6E114GTA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6E142GTA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6E170GTA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW6E215GTA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW6E256GTA | 15         | 20   | 38.7            | 40   | 1               | 30.2              | 30.2              | 24,000       |

460 ratings include 1 amp for controls on EcoNet® Enabled units.

APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 4 FPI

| Model No. |             | BTUH Capacity<br>@ -20°F SST & 10°F TD <sup>1</sup> | CFM    | No. of<br>Fans | 208-230V/3           | 460V/3 |
|-----------|-------------|-----------------------------------------------------|--------|----------------|----------------------|--------|
|           |             | R454A/R454C/R454A                                   |        |                | Total Fan Motor Amps |        |
| 4 FPI     | RAW4E045*TA | 45,000                                              | 7,010  | 1              | 4.1                  | 2      |
|           | RAW4E058*TA | 58,000                                              | 6,875  | 1              | 4.1                  | 2      |
|           | RAW4E092*TA | 92,000                                              | 14,030 | 2              | 8.2                  | 4      |
|           | RAW4E116*TA | 116,000                                             | 13,750 | 2              | 8.2                  | 4      |
|           | RAW4E136*TA | 136,000                                             | 21,040 | 3              | 12.3                 | 6      |
|           | RAW4E173*TA | 173,000                                             | 20,625 | 3              | 12.3                 | 6      |
|           | RAW4E214*TA | 214,000                                             | 27,500 | 4              | 16.4                 | 8      |

\* Asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.

| Capacity Correction for Low Temp Electric Defrost |       |        |       |        |       |
|---------------------------------------------------|-------|--------|-------|--------|-------|
| SST (Dew)                                         | 0°F   | -10°F  | -20°F | -30°F  | -40°F |
| Multiply Capacity by:                             | 1.075 | 1.0375 | 1     | 0.9625 | 0.925 |

<sup>1</sup> Capacity values adjusted using the Correction Table for Electric Defrost Evaporators.

## APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 4 FPI

| Model No. |             | 208-230V/3 |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 4 FPI     | RAW4E045ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW4E058ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW4E092ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW4E116ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW4E136ETA | 15         | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW4E173ETA | 15         | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW4E214ETA | 17.4       | 30   | 74.3            | 80   | 2               | 28.9              | 57.8              | 24,000       |

208-230 ratings include 2 amp for controls on EcoNet® Enabled units.

| Model No. |             | 460V/3     |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 4 FPI     | RAW4E045ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW4E058ETA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW4E092ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW4E116ETA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW4E136ETA | 15         | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW4E173ETA | 15         | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW4E214ETA | 17.4       | 30   | 74.3            | 80   | 2               | 28.9              | 57.8              | 24,000       |

460 ratings include 1 amp for controls on EcoNet® Enabled units.

APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR W/HIGH-STATIC FAN BLADES // 6 FPI

| Model No. |             | BTUH Capacity<br>@ +25°F SST & 10°F TD <sup>1</sup> | CFM    | No. of<br>Fans | 208-230V/3           | 460V/3 |
|-----------|-------------|-----------------------------------------------------|--------|----------------|----------------------|--------|
|           |             | R454A/R454C/R454A                                   |        |                | Total Fan Motor Amps |        |
| 6 FPI     | RAW6E044*HA | 44,000                                              | 7,080  | 1              | 6.4                  | 3.2    |
|           | RAW6E057*HA | 57,000                                              | 7,010  | 1              | 6.4                  | 3.2    |
|           | RAW6E071*HA | 71,000                                              | 6,875  | 1              | 6.4                  | 3.2    |
|           | RAW6E087*HA | 87,000                                              | 14,160 | 2              | 12.8                 | 6.4    |
|           | RAW6E114*HA | 114,000                                             | 14,030 | 2              | 12.8                 | 6.4    |
|           | RAW6E142*HA | 142,000                                             | 13,750 | 2              | 12.8                 | 6.4    |
|           | RAW6E170*HA | 170,000                                             | 21,040 | 3              | 19.2                 | 9.6    |
|           | RAW6E215*HA | 214,900                                             | 20,625 | 3              | 19.2                 | 9.6    |
|           | RAW6E256*HA | 255,900                                             | 27,500 | 4              | 25.6                 | 12.8   |

\* Asterisk represents a variable character based on voltage ordered. See nomenclature on page 4 for details.

| Capacity Correction for Low Temp Electric Defrost |       |        |       |        |       |
|---------------------------------------------------|-------|--------|-------|--------|-------|
| SST (Dew)                                         | 0°F   | -10°F  | -20°F | -30°F  | -40°F |
| Multiply Capacity by:                             | 1.075 | 1.0375 | 1     | 0.9625 | 0.925 |

<sup>1</sup> Capacity values adjusted using the Correction Table for Electric Defrost Evaporators.

## APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR W/ HIGH-STATIC FAN BLADES // 6 FPI

| Model No. |             | 208-230V/3 |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 6 FPI     | RAW6E044EHA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW6E057EHA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW6E071EHA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW6E087EHA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW6E114EHA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW6E142EHA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW6E170EHA | 20.8       | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW6E215EHA | 20.8       | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW6E256EHA | 27.2       | 30   | 74.3            | 80   | 2               | 28.9              | 57.8              | 24000        |

208-230 ratings include 2 amp for controls on EcoNet® Enabled units.

| Model No. |             | 460V/3     |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 6 FPI     | RAW6E044GHA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6E057GHA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6E071GHA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW6E087GHA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6E114GHA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6E142GHA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW6E170GHA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW6E215GHA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW6E256GHA | 15         | 20   | 38.7            | 40   | 1               | 30.2              | 30.2              | 24,000       |

460 ratings include 1 amp for controls on EcoNet® Enabled units.

High Static Fan Blades are capable of .35 water column external static pressure for duct or air flow accessories.

Models with high static fan blades should not be used with the presence of external static pressure.

APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR W/ HIGH-STATIC FAN BLADES // 4 FPI

| Model No. |             | BTUH Capacity<br>@ +25°F SST & 10°F TD <sup>1</sup> | CFM    | No. of<br>Fans | 208-230V/3           | 460V/3 |
|-----------|-------------|-----------------------------------------------------|--------|----------------|----------------------|--------|
|           |             | R454A/R454C/R454A                                   |        |                | Total Fan Motor Amps |        |
| 4 FPI     | RAW4E045*HA | 45,000                                              | 7,010  | 1              | 6.4                  | 3.2    |
|           | RAW4E058*HA | 58,000                                              | 6,875  | 1              | 6.4                  | 3.2    |
|           | RAW4E092*HA | 92,000                                              | 14,030 | 2              | 12.8                 | 6.4    |
|           | RAW4E116*HA | 116,000                                             | 13,750 | 2              | 12.8                 | 6.4    |
|           | RAW4E136*HA | 136,000                                             | 21,040 | 3              | 19.2                 | 9.6    |
|           | RAW4E173*HA | 173,000                                             | 20,625 | 3              | 19.2                 | 9.6    |
|           | RAW4E214*HA | 214,000                                             | 27,500 | 4              | 25.6                 | 12.8   |

\* Asterisk represents a variable character based on voltage ordered. See nomenclature on page 4 for details.

| Capacity Correction for Low Temp Electric Defrost |       |        |       |        |       |
|---------------------------------------------------|-------|--------|-------|--------|-------|
| SST (Dew)                                         | 0°F   | -10°F  | -20°F | -30°F  | -40°F |
| Multiply Capacity by:                             | 1.075 | 1.0375 | 1     | 0.9625 | 0.925 |

<sup>1</sup> Capacity values adjusted using the Correction Table for Electric Defrost Evaporators.

## APPLICATION RATING & ELECTRICAL DATA

LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR W/ HIGH-STATIC FAN BLADES // 4 FPI

| Model No. |             | 208-230V/3 |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 4 FPI     | RAW4E045EHA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW4E058EHA | 15         | 20   | 20.1            | 25   | 1               | 14.5              | 14.5              | 6,000        |
|           | RAW4E092EHA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW4E116EHA | 15         | 20   | 38.1            | 40   | 1               | 28.9              | 28.9              | 12,000       |
|           | RAW4E136EHA | 20.8       | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW4E173EHA | 20.8       | 25   | 56.2            | 60   | 1               | 43.4              | 43.4              | 18,000       |
|           | RAW4E214EHA | 27.2       | 30   | 74.3            | 80   | 2               | 28.9              | 57.8              | 24,000       |

208-230 ratings include 2 amp for controls on EcoNet® Enabled units.

| Model No. |             | 460V/3     |      |                 |      |                 |                   |                   | Heater Watts |
|-----------|-------------|------------|------|-----------------|------|-----------------|-------------------|-------------------|--------------|
|           |             | Base Model |      | EcoNet® Enabled |      | Heater Amps     |                   |                   |              |
|           |             | MCA        | MOPD | MCA             | MOPD | No. of Circuits | Amps Each Circuit | Total Heater Amps |              |
| 4 FPI     | RAW4E045GHA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW4E058GHA | 15         | 20   | 15              | 20   | 1               | 7.5               | 7.5               | 6,000        |
|           | RAW4E092GHA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW4E116GHA | 15         | 20   | 19.8            | 20   | 1               | 15.1              | 15.1              | 12,000       |
|           | RAW4E136GHA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW4E173GHA | 15         | 20   | 29.3            | 30   | 1               | 22.6              | 22.6              | 18,000       |
|           | RAW4E214GHA | 15         | 20   | 38.7            | 40   | 1               | 30.2              | 30.2              | 24,000       |

460 ratings include 1 amp for controls on EcoNet® Enabled units.

High Static Fan Blades are capable of .35 water column external static pressure for duct or air flow accessories.

Models with high static fan blades should not be used with the presence of an external device.

## DISTRIBUTOR NOZZLES &amp; EXPANSION VALVES

AIR DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No.     |             | Nozzle @ Liq. Temp. |            | TXV @ Liq. Temp. |           | EEV @ Liq. Temp |        | No. of Circuits |
|---------------|-------------|---------------------|------------|------------------|-----------|-----------------|--------|-----------------|
|               |             | 50°F                | 100°F      | 50°F             | 100°F     | 50°F            | 100°F  |                 |
| 6 FPI - R454A | RAW6A042*TA | 1.5, TYPE G         | 4, TYPE G  | SBFTE-B-C        | SBFTE-C-C | SER-C           | SER-C  | 6               |
|               | RAW6A057*TA | 2, TYPE G           | 4, TYPE G  | SBFTE-C-C        | SBFTE-C-C | SER-C           | SER-C  | 6               |
|               | RAW6A072*TA | 3, TYPE G           | 6, TYPE G  | ERTE-4-C         | ERTE-6-C  | SER-C           | SER-C  | 12              |
|               | RAW6A084*TA | 3, TYPE G           | 8, TYPE G  | ERTE-5-C         | ERTE-8-C  | SER-C           | SER-D  | 12              |
|               | RAW6A116*TA | 5, TYPE C           | 10, TYPE C | ERTE-8-C         | ERTE-10-C | SER-D           | SER-D  | 18              |
|               | RAW6A143*TA | 5, TYPE C           | 15, TYPE E | ERTE-8-C         | ERTE-12-C | SER-D           | SER-D  | 24              |
|               | RAW6A173*TA | 8, TYPE A           | 17, TYPE A | OTE-15-C         | OTE-15-C  | SER-D           | SERI-F | 27              |
|               | RAW6A216*TA | 10, TYPE A          | 20, TYPE A | OTE-15-C         | OTE-20-C  | SER-D           | SERI-F | 36              |
|               | RAW6A235*TA | 12, TYPE A          | 20, TYPE A | OTE-15-C         | OTE-20-C  | SERI-F          | SERI-G | 27              |
|               | RAW6A291*TA | 15, TYPE A          | 30, TYPE A | OTE-20-C         | OTE-30-C  | SERI-F          | SERI-G | 36              |
| 6 FPI - R454C | RAW6A042*TA | 2, TYPE G           | 4, TYPE G  | SBFVE-B-C        | SBFVE-C-C | SER-C           | SER-C  | 6               |
|               | RAW6A057*TA | 2.5, TYPE G         | 5, TYPE G  | ERVE-4-C         | ERVE-6-C  | SER-C           | SER-C  | 6               |
|               | RAW6A072*TA | 3, TYPE G           | 6, TYPE G  | ERVE-5-C         | ERVE-8-C  | SER-C           | SER-D  | 12              |
|               | RAW6A084*TA | 4, TYPE G           | 8, TYPE G  | ERVE-6-C         | ERVE-20-C | SER-C           | SER-D  | 12              |
|               | RAW6A116*TA | 6, TYPE C           | 15, TYPE C | ERVE-10-C        | ERVE-12-C | SER-D           | SER-D  | 18              |
|               | RAW6A143*TA | 8, TYPE E           | 17, TYPE E | OVE-10-C         | OVE-15-C  | SER-D           | SERI-F | 24              |
|               | RAW6A173*TA | 10, TYPE A          | 20, TYPE A | OVE-15-C         | OVE-20-C  | SER-D           | SERI-F | 27              |
|               | RAW6A216*TA | 12, TYPE A          | 25, TYPE A | OVE-15-C         | OVE-20-C  | SERI-F          | SERI-G | 36              |
|               | RAW6A235*TA | 12, TYPE A          | 30, TYPE A | OVE-20-C         | OVE-30-C  | SERI-F          | SERI-G | 27              |
|               | RAW6A291*TA | 15, TYPE A          | 35, TYPE A | OVE-20-C         | OVE-30-C  | SERI-G          | SERI-J | 36              |
| 6 FPI - R455A | RAW6A042*TA | 2, TYPE G           | 4, TYPE G  | SBFVE-B-C        | SBF-C-C   | SER-C           | SER-C  | 6               |
|               | RAW6A057*TA | 3, TYPE G           | 5, TYPE G  | ERVE-4-C         | SBF-C-C   | SER-C           | SER-C  | 6               |
|               | RAW6A072*TA | 4, TYPE G           | 6, TYPE G  | ERVE-5-C         | ERVE-6-C  | SER-C           | SER-C  | 12              |
|               | RAW6A084*TA | 4, TYPE G           | 8, TYPE G  | ERVE-6-C         | ERVE-8-C  | SER-C           | SER-D  | 12              |
|               | RAW6A116*TA | 6, TYPE C           | 15, TYPE C | ERVE-10-C        | ERVE-10-C | SER-D           | SER-D  | 18              |
|               | RAW6A143*TA | 8, TYPE E           | 17, TYPE E | OVE-10-C         | ERVE-12-C | SER-D           | SER-D  | 24              |
|               | RAW6A173*TA | 12, TYPE A          | 20, TYPE A | OVE-15-C         | OVE-20-C  | SER-D           | SERI-F | 27              |
|               | RAW6A216*TA | 15, TYPE A          | 25, TYPE A | OVE-15-C         | OVE-20-C  | SERI-F          | SERI-F | 36              |
|               | RAW6A235*TA | 15, TYPE A          | 30, TYPE A | OVE-20-C         | OVE-20-C  | SERI-F          | SERI-G | 27              |
|               | RAW6A291*TA | 17, TYPE A          | 35, TYPE A | OVE-20-C         | OVE-30-C  | SERI-G          | SERI-G | 36              |

The Distributor lines are 1/4 diameter and 36 long.

\* Each asterisk represents a variable character based on voltage ordered. See nomenclature on page 4 for details.

Expansion valve selections based on +25° Suction Temp and 8°F to 12°F evaporator TD. Contact factory for operating conditions outside this range.

T Expansion valves are compatible with R454A refrigerant. V Expansion valves are compatible with R454C and R455A refrigerants.

For other valves, follow manufacturer's selection guidelines.

Base models (with no factory-mounted components) include nozzles sized for 100°F liquid, shipped loose.

## LOOSE COMPONENTS REQUIRED FOR A2L ISOLATION CONTROLS

**A<sub>MIN</sub>** (MINIMUM ALLOWABLE ROOM SIZE) VALUES // AIR DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No.     |             | A <sub>min</sub> Values (Ft <sup>2</sup> ) |                |                |                |                | Loose SSOV Isolation Valve @ Liquid Temp |         |         | Loose CSOV Isolation CV |             |
|---------------|-------------|--------------------------------------------|----------------|----------------|----------------|----------------|------------------------------------------|---------|---------|-------------------------|-------------|
|               |             | 10 Ft Line Run                             | 20 Ft Line Run | 30 Ft Line Run | 40 Ft Line Run | 50 Ft Line Run | Size                                     | 50°F    | 100°F   | Size                    | Description |
| 6 FPI - R454A | RAW6A042*TA | 87                                         | 100            | 112            | 124            | 136            | 1/2                                      | SSOV-6  | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6A057*TA | 123                                        | 141            | 159            | 178            | 196            | 5/8                                      | SSOV-10 | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6A072*TA | 151                                        | 170            | 189            | 208            | 227            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6A084*TA | 151                                        | 170            | 189            | 208            | 227            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6A116*TA | 228                                        | 266            | 303            | 340            | 377            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A143*TA | 281                                        | 319            | 356            | 393            | 430            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A173*TA | 306                                        | 343            | 380            | 417            | 455            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A216*TA | 387                                        | 426            | 466            | 505            | 544            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6A235*TA | 386                                        | 425            | 465            | 504            | 543            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6A291*TA | 514                                        | 577            | 639            | 702            | 764            | 1-1/8                                    | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
| 6 FPI - R454C | RAW6A042*TA | 84                                         | 96             | 108            | 119            | 131            | 1/2                                      | SSOV-6  | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6A057*TA | 119                                        | 136            | 154            | 172            | 190            | 5/8                                      | SSOV-10 | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6A072*TA | 146                                        | 165            | 183            | 201            | 220            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6A084*TA | 145                                        | 164            | 182            | 201            | 219            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6A116*TA | 221                                        | 257            | 293            | 329            | 365            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A143*TA | 272                                        | 308            | 344            | 380            | 416            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A173*TA | 296                                        | 332            | 368            | 404            | 440            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A216*TA | 374                                        | 412            | 450            | 488            | 526            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6A235*TA | 373                                        | 411            | 449            | 487            | 525            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6A291*TA | 498                                        | 558            | 619            | 679            | 740            | 1-1/8                                    | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
| 6 FPI - R455A | RAW6A042*TA | 77                                         | 88             | 98             | 109            | 120            | 1/2                                      | SSOV-6  | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6A057*TA | 108                                        | 124            | 141            | 157            | 173            | 5/8                                      | SSOV-10 | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6A072*TA | 133                                        | 150            | 167            | 184            | 201            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6A084*TA | 133                                        | 150            | 166            | 183            | 200            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6A116*TA | 202                                        | 234            | 267            | 300            | 333            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A143*TA | 248                                        | 281            | 314            | 347            | 380            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A173*TA | 270                                        | 303            | 335            | 368            | 401            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6A216*TA | 341                                        | 376            | 411            | 445            | 480            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6A235*TA | 340                                        | 375            | 410            | 444            | 479            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6A291*TA | 454                                        | 509            | 564            | 620            | 675            | 1-1/8                                    | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |

Solenoid Shut Off Valves (SSOV) operate as double duty isolation/liquid line solenoid valve and are required to ship loose and be installed in the field, outside the refrigerated space.

SSOV/CSOV (Check Shut Off Valves) Selection Criteria: Maximum 10 Foot Line Rise, 100 Foot Line Run, 1:1 Condensing Unit/Evaporator.

Contact applications for additional lengths or design considerations.

A<sub>min</sub> values calculated using operating conditions included in UL 60335-2-89 101.DVU.1.2 and standard connection sizes (liquid and suction).

A<sub>min</sub> values provided for 10 Ft, 20 Ft, 30 Ft, 40 Ft and 50 Ft line lengths. Contact applications for additional lengths or design considerations.

A<sub>min</sub> values intended to determine compliance with UL 2-89 and is NOT for charging calculations.

## DISTRIBUTOR NOZZLES &amp; EXPANSION VALVES

MEDIUM TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR // 6 FPI

| Model No.     |             | Nozzle @ Liq. Temp. |            | TXV @ Liq. Temp. |           | EEV @ Liq. Temp |        | No. of Circuits |
|---------------|-------------|---------------------|------------|------------------|-----------|-----------------|--------|-----------------|
|               |             | 50°F                | 100°F      | 50°F             | 100°F     | 50°F            | 100°F  |                 |
| 6 FPI - R454A | RAW6D042*TA | 1.5, TYPE G         | 4, TYPE G  | SBFTE-B-C        | SBFTE-C-C | SER-C           | SER-C  | 6               |
|               | RAW6D057*TA | 2, TYPE G           | 4, TYPE G  | SBFTE-C-C        | SBFTE-C-C | SER-C           | SER-C  | 6               |
|               | RAW6D072*TA | 3, TYPE G           | 6, TYPE G  | ERTE-4-C         | ERTE-6-C  | SER-C           | SER-C  | 12              |
|               | RAW6D084*TA | 3, TYPE G           | 8, TYPE G  | ERTE-5-C         | ERTE-8-C  | SER-C           | SER-D  | 12              |
|               | RAW6D116*TA | 5, TYPE C           | 10, TYPE C | ERTE-8-C         | ERTE-10-C | SER-D           | SER-D  | 18              |
|               | RAW6D144*TA | 5, TYPE C           | 15, TYPE E | ERTE-8-C         | ERTE-12-C | SER-D           | SER-D  | 24              |
|               | RAW6D174*TA | 8, TYPE A           | 17, TYPE A | OTE-15-C         | OTE-15-C  | SER-D           | SERI-F | 27              |
|               | RAW6D216*TA | 10, TYPE A          | 20, TYPE A | OTE-15-C         | OTE-20-C  | SER-D           | SERI-F | 36              |
|               | RAW6D235*TA | 12, TYPE A          | 20, TYPE A | OTE-15-C         | OTE-20-C  | SERI-F          | SERI-G | 27              |
|               | RAW6D292*TA | 15, TYPE A          | 30, TYPE A | OTE-20-C         | OTE-30-C  | SERI-F          | SERI-G | 36              |
| 6 FPI - R454C | RAW6D042*TA | 2, TYPE G           | 4, TYPE G  | SBFVE-B-C        | SBFVE-C-C | SER-C           | SER-C  | 6               |
|               | RAW6D057*TA | 2.5, TYPE G         | 5, TYPE G  | ERVE-4-C         | ERVE-6-C  | SER-C           | SER-C  | 6               |
|               | RAW6D072*TA | 3, TYPE G           | 6, TYPE G  | ERVE-5-C         | ERVE-8-C  | SER-C           | SER-D  | 12              |
|               | RAW6D084*TA | 4, TYPE G           | 8, TYPE G  | ERVE-6-C         | ERVE-20-C | SER-C           | SER-D  | 12              |
|               | RAW6D116*TA | 6, TYPE C           | 15, TYPE C | ERVE-10-C        | ERVE-12-C | SER-D           | SER-D  | 18              |
|               | RAW6D144*TA | 8, TYPE E           | 17, TYPE E | OVE-10-C         | OVE-15-C  | SER-D           | SERI-F | 24              |
|               | RAW6D174*TA | 10, TYPE A          | 20, TYPE A | OVE-15-C         | OVE-20-C  | SER-D           | SERI-F | 27              |
|               | RAW6D216*TA | 12, TYPE A          | 25, TYPE A | OVE-15-C         | OVE-20-C  | SERI-F          | SERI-G | 36              |
|               | RAW6D235*TA | 12, TYPE A          | 30, TYPE A | OVE-20-C         | OVE-30-C  | SERI-F          | SERI-G | 27              |
|               | RAW6D292*TA | 15, TYPE A          | 35, TYPE A | OVE-20-C         | OVE-30-C  | SERI-G          | SERI-J | 36              |
| 6 FPI - R455A | RAW6D042*TA | 2, TYPE G           | 4, TYPE G  | SBFVE-B-C        | SBF-C-C   | SER-C           | SER-C  | 6               |
|               | RAW6D057*TA | 3, TYPE G           | 5, TYPE G  | ERVE-4-C         | SBF-C-C   | SER-C           | SER-C  | 6               |
|               | RAW6D072*TA | 4, TYPE G           | 6, TYPE G  | ERVE-5-C         | ERVE-6-C  | SER-C           | SER-C  | 12              |
|               | RAW6D084*TA | 4, TYPE G           | 8, TYPE G  | ERVE-6-C         | ERVE-8-C  | SER-C           | SER-D  | 12              |
|               | RAW6D116*TA | 6, TYPE C           | 15, TYPE C | ERVE-10-C        | ERVE-10-C | SER-D           | SER-D  | 18              |
|               | RAW6D144*TA | 8, TYPE E           | 17, TYPE E | OVE-10-C         | ERVE-12-C | SER-D           | SER-D  | 24              |
|               | RAW6D174*TA | 12, TYPE A          | 20, TYPE A | OVE-15-C         | OVE-20-C  | SER-D           | SERI-F | 27              |
|               | RAW6D216*TA | 15, TYPE A          | 25, TYPE A | OVE-15-C         | OVE-20-C  | SERI-F          | SERI-F | 36              |
|               | RAW6D235*TA | 15, TYPE A          | 30, TYPE A | OVE-20-C         | OVE-20-C  | SERI-F          | SERI-G | 27              |
|               | RAW6D292*TA | 17, TYPE A          | 35, TYPE A | OVE-20-C         | OVE-30-C  | SERI-G          | SERI-G | 36              |

The Distributor lines are 1/4 diameter and 36 long.

\* Each asterisk represents a variable character based on voltage ordered. See nomenclature on page 4 for details.

Expansion valve selections based on +25° Suction Temp and 8°F to 12°F evaporator TD. Contact factory for operating conditions outside this range.

T Expansion valves are compatible with R454A refrigerant. V Expansion valves are compatible with R454C and R455A refrigerants.

For other valves, follow manufacturer's selection guidelines.

Base models (with no factory-mounted components) include nozzles sized for 100°F liquid, shipped loose.

## LOOSE COMPONENTS REQUIRED FOR A2L ISOLATION CONTROLS

**A<sub>min</sub>** (MINIMUM ALLOWABLE ROOM SIZE) VALUES // MEDIUM TEMPERATURE ELECTRIC DEFROST // 6 FPI

| Model No.     |             | A <sub>min</sub> Values (Ft <sup>2</sup> ) |                |                |                |                | Loose SSOV Isolation Valve @ Liquid Temp |         |         | Loose CSOV Isolation CV |             |
|---------------|-------------|--------------------------------------------|----------------|----------------|----------------|----------------|------------------------------------------|---------|---------|-------------------------|-------------|
|               |             | 10 Ft Line Run                             | 20 Ft Line Run | 30 Ft Line Run | 40 Ft Line Run | 50 Ft Line Run | Size                                     | 50°F    | 100°F   | Size                    | Description |
| 6 FPI - R454A | RAW6D042*TA | 87                                         | 100            | 112            | 124            | 136            | 1/2                                      | SSOV-6  | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6D057*TA | 123                                        | 141            | 159            | 178            | 196            | 5/8                                      | SSOV-10 | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6D072*TA | 151                                        | 170            | 189            | 208            | 227            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6D084*TA | 151                                        | 170            | 189            | 208            | 227            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6D116*TA | 228                                        | 266            | 303            | 340            | 377            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D144*TA | 281                                        | 319            | 356            | 393            | 430            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D174*TA | 306                                        | 343            | 380            | 417            | 455            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D216*TA | 387                                        | 426            | 466            | 505            | 544            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6D235*TA | 386                                        | 425            | 465            | 504            | 543            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6D292*TA | 514                                        | 577            | 639            | 702            | 764            | 1-1/8                                    | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
| 6 FPI - R454C | RAW6D042*TA | 84                                         | 96             | 108            | 119            | 131            | 1/2                                      | SSOV-6  | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6D057*TA | 119                                        | 136            | 154            | 172            | 190            | 5/8                                      | SSOV-10 | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6D072*TA | 146                                        | 165            | 183            | 201            | 220            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6D084*TA | 145                                        | 164            | 182            | 201            | 219            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6D116*TA | 221                                        | 257            | 293            | 329            | 365            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D144*TA | 272                                        | 308            | 344            | 380            | 416            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D174*TA | 296                                        | 332            | 368            | 404            | 440            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D216*TA | 374                                        | 412            | 450            | 488            | 526            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6D235*TA | 373                                        | 411            | 449            | 487            | 525            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6D292*TA | 498                                        | 558            | 619            | 679            | 740            | 1-1/8                                    | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
| 6 FPI - R455A | RAW6D042*TA | 77                                         | 88             | 98             | 109            | 120            | 1/2                                      | SSOV-6  | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6D057*TA | 108                                        | 124            | 141            | 157            | 173            | 5/8                                      | SSOV-10 | SSOV-10 | 1-3/8                   | CSOV-11     |
|               | RAW6D072*TA | 133                                        | 150            | 167            | 184            | 201            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6D084*TA | 133                                        | 150            | 166            | 183            | 200            | 5/8                                      | SSOV-10 | SSOV-10 | 1-5/8                   | CSOV-13     |
|               | RAW6D116*TA | 202                                        | 234            | 267            | 300            | 333            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D144*TA | 248                                        | 281            | 314            | 347            | 380            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D174*TA | 270                                        | 303            | 335            | 368            | 401            | 7/8                                      | SSOV-19 | SSOV-19 | 2-1/8                   | CSOV-17     |
|               | RAW6D216*TA | 341                                        | 376            | 411            | 445            | 480            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6D235*TA | 340                                        | 375            | 410            | 444            | 479            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6D292*TA | 454                                        | 509            | 564            | 620            | 675            | 1-1/8                                    | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |

Solenoid Shut Off Valves (SSOV) operate as double duty isolation/liquid line solenoid valve and are required to ship loose and be installed in the field, outside the refrigerated space.

SSOV/CSOV (Check Shut Off Valves) Selection Criteria: Maximum 10 Foot Line Rise, 100 Foot Line Run, 1:1 Condensing Unit/Evaporator.

Contact applications for additional lengths or design considerations.

A<sub>min</sub> values calculated using operating conditions included in UL 60335-2-89 101.DVU.1.2 and standard connection sizes (liquid and suction).

A<sub>min</sub> values provided for 10 Ft, 20 Ft, 30 Ft, 40 Ft and 50 Ft line lengths. Contact applications for additional lengths or design considerations.

A<sub>min</sub> values intended to determine compliance with UL 2-89 and is NOT for charging calculations.

## DISTRIBUTOR NOZZLES &amp; EXPANSION VALVES

LOW TEMPERATURE ELECTRIC DEFROST // 6 FPI

| Model No.     |             | Nozzle @ Liq. Temp. |            | TXV @ Liq. Temp. |          | EEV @ Liq. Temp. |        | No. of Circuits |
|---------------|-------------|---------------------|------------|------------------|----------|------------------|--------|-----------------|
|               |             | 50°F                | 100°F      | 50°F             | 100°F    | 50°F             | 100°F  |                 |
| 6 FPI - R454A | RAW6E044**A | 3, TYPE E           | 6, TYPE E  | OTE-10-Z         | OTE-10-Z | SER-C            | SER-C  | 9               |
|               | RAW6E057**A | 4, TYPE E           | 8, TYPE E  | OTE-10-Z         | OTE-10-Z | SER-C            | SER-C  | 9               |
|               | RAW6E071**A | 5, TYPE C           | 12, TYPE C | OTE-10-Z         | OTE-15-Z | SER-C            | SER-C  | 18              |
|               | RAW6E087**A | 8, TYPE C           | 15, TYPE C | OTE-10-Z         | OTE-15-Z | SER-C            | SER-D  | 18              |
|               | RAW6E114**A | 12, TYPE A          | 20, TYPE A | OTE-15-Z         | OTE-20-Z | SER-C            | SER-D  | 27              |
|               | RAW6E142**A | 15, TYPE A          | 25, TYPE A | OTE-20-Z         | OTE-30-Z | SER-D            | SER-D  | 36              |
|               | RAW6E170**A | 17, TYPE A          | 25, TYPE A | OTE-20-Z         | OTE-30-Z | SER-D            | SERI-F | 27              |
|               | RAW6E215**A | 20, TYPE A          | 35, TYPE A | OTE-30-Z         | OTE-40-Z | SER-D            | SERI-F | 36              |
|               | RAW6E256**A | 25, TYPE A          | 40, TYPE A | OTE-30-Z         | OTE-40-Z | SERI-F           | SERI-G | 36              |
| 6 FPI - R454C | RAW6E044**A | 4, TYPE E           | 8, TYPE E  | ERVE-5-Z         | ERVE-8-Z | SER-C            | SER-C  | 9               |
|               | RAW6E057**A | 5, TYPE E           | 10, TYPE E | OVE-10-Z         | OVE-15-Z | SER-C            | SER-C  | 9               |
|               | RAW6E071**A | 6, TYPE C           | 12, TYPE C | OVE-10-Z         | OVE-15-Z | SER-C            | SER-D  | 18              |
|               | RAW6E087**A | 8, TYPE C           | 15, TYPE C | OVE-15-Z         | OVE-20-Z | SER-C            | SER-D  | 18              |
|               | RAW6E114**A | 12, TYPE A          | 20, TYPE A | OVE-20-Z         | OVE-30-Z | SER-D            | SER-D  | 27              |
|               | RAW6E142**A | 15, TYPE A          | 25, TYPE A | OVE-20-Z         | OVE-30-Z | SER-D            | SERI-F | 36              |
|               | RAW6E170**A | 17, TYPE A          | 25, TYPE A | OVE-30-Z         | OVE-40-Z | SER-D            | SERI-F | 27              |
|               | RAW6E215**A | 20, TYPE A          | 35, TYPE A | OVE-30-Z         | OVE-40-Z | SERI-F           | SERI-G | 36              |
|               | RAW6E256**A | 25, TYPE A          | 40, TYPE A | OVE-40-Z         | OVE-55-Z | SERI-F           | SERI-J | 36              |
| 6 FPI - R455A | RAW6E044**A | 4, TYPE E           | 8, TYPE E  | ERVE-5-Z         | ERVE-8-Z | SER-C            | SER-C  | 9               |
|               | RAW6E057**A | 5, TYPE E           | 10, TYPE E | OVE-10-Z         | OVE-10-Z | SER-C            | SER-C  | 9               |
|               | RAW6E071**A | 8, TYPE C           | 12, TYPE C | OVE-10-Z         | OVE-15-Z | SER-C            | SER-C  | 18              |
|               | RAW6E087**A | 10, TYPE C          | 15, TYPE C | OVE-15-Z         | OVE-20-Z | SER-C            | SER-D  | 18              |
|               | RAW6E114**A | 15, TYPE A          | 20, TYPE A | OVE-20-Z         | OVE-20-Z | SER-D            | SER-D  | 27              |
|               | RAW6E142**A | 17, TYPE A          | 25, TYPE A | OVE-20-Z         | OVE-30-Z | SER-D            | SER-D  | 36              |
|               | RAW6E170**A | 20, TYPE A          | 25, TYPE A | OVE-30-Z         | OVE-40-Z | SER-D            | SERI-F | 27              |
|               | RAW6E215**A | 25, TYPE A          | 35, TYPE A | OVE-30-Z         | OVE-40-Z | SERI-F           | SERI-F | 36              |
|               | RAW6E256**A | 30, TYPE A          | 40, TYPE A | OVE-40-Z         | OVE-40-Z | SERI-F           | SERI-G | 36              |

The Distributor lines are 1/4 diameter and 36 long.

\* Each asterisk represents a variable character based on voltage ordered. See nomenclature on page 4 for details.

Expansion valve selections based on +25° Suction Temp and 8°F to 12°F evaporator TD. Contact factory for operating conditions outside this range.

T Expansion valves are compatible with R454A refrigerant. V Expansion valves are compatible with R454C and R455A refrigerants.

For other valves, follow manufacturer's selection guidelines.

Base models (with no factory-mounted components) include nozzles sized for 100°F liquid, shipped loose.

## LOOSE COMPONENTS REQUIRED FOR A2L ISOLATION CONTROLS

**A<sub>MIN</sub>** (MINIMUM ALLOWABLE ROOM SIZE) VALUES // LOW TEMPERATURE ELECTRIC DEFROST // 6 FPI

| Model No.     |             | A <sub>min</sub> Values (Ft <sup>2</sup> ) |                |                |                |                | Loose SSOV Isolation Valve @ Liquid Temp |         |         | Loose CSOV Isolation CV |             |
|---------------|-------------|--------------------------------------------|----------------|----------------|----------------|----------------|------------------------------------------|---------|---------|-------------------------|-------------|
|               |             | 10 Ft Line Run                             | 20 Ft Line Run | 30 Ft Line Run | 40 Ft Line Run | 50 Ft Line Run | Size                                     | 50°F    | 100°F   | Size                    | Description |
| 6 FPI - R454A | RAW6E044**A | 95                                         | 107            | 120            | 132            | 145            | 1/2                                      | SSOV-6  | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E057**A | 127                                        | 146            | 164            | 183            | 202            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E071**A | 153                                        | 172            | 190            | 209            | 228            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E087**A | 152                                        | 172            | 192            | 211            | 231            | 7/8                                      | SSOV-10 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6E114**A | 234                                        | 271            | 307            | 343            | 379            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6E142**A | 286                                        | 323            | 361            | 398            | 436            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW6E170**A | 310                                        | 348            | 385            | 423            | 460            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW6E215**A | 387                                        | 426            | 465            | 504            | 543            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
|               | RAW6E256**A | 485                                        | 524            | 563            | 602            | 641            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
| 6 FPI - R454C | RAW6E044**A | 92                                         | 104            | 116            | 128            | 128            | 1/2                                      | SSOV-6  | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E057**A | 123                                        | 141            | 159            | 177            | 177            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E071**A | 148                                        | 166            | 184            | 203            | 203            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E087**A | 148                                        | 167            | 186            | 205            | 205            | 7/8                                      | SSOV-10 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6E114**A | 228                                        | 263            | 298            | 333            | 333            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6E142**A | 277                                        | 313            | 350            | 386            | 386            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW6E170**A | 301                                        | 337            | 374            | 410            | 410            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW6E215**A | 376                                        | 413            | 451            | 488            | 488            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
|               | RAW6E256**A | 471                                        | 508            | 546            | 583            | 583            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
| 6 FPI - R455A | RAW6E044**A | 84                                         | 95             | 106            | 117            | 127            | 1/2                                      | SSOV-6  | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E057**A | 112                                        | 129            | 145            | 162            | 178            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E071**A | 135                                        | 152            | 168            | 185            | 201            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW6E087**A | 135                                        | 152            | 169            | 187            | 204            | 7/8                                      | SSOV-10 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6E114**A | 207                                        | 239            | 271            | 303            | 335            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW6E142**A | 253                                        | 286            | 319            | 352            | 385            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW6E170**A | 275                                        | 308            | 341            | 374            | 407            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW6E215**A | 342                                        | 377            | 411            | 445            | 480            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
|               | RAW6E256**A | 429                                        | 463            | 498            | 532            | 566            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |

Solenoid Shut Off Valves (SSOV) operate as double duty isolation/liquid line solenoid valve and are required to ship loose and be installed in the field, outside the refrigerated space.

SSOV/CSOV (Check Shut Off Valves) Selection Criteria: Maximum 10 Foot Line Rise, 100 Foot Line Run, 1:1 Condensing Unit/Evaporator.

Contact applications for additional lengths or design considerations.

A<sub>min</sub> values calculated using operating conditions included in UL 60335-2-89 101.DVU.1.2 and standard connection sizes (liquid and suction).

A<sub>min</sub> values provided for 10 Ft, 20 Ft, 30 Ft, 40 Ft and 50 Ft line lengths. Contact applications for additional lengths or design considerations.

A<sub>min</sub> values intended to determine compliance with UL 2-89 and is NOT for charging calculations.

## DISTRIBUTOR NOZZLES &amp; EXPANSION VALVES

LOW TEMPERATURE ELECTRIC DEFROST // 4 FPI

| Model No.     |             | Nozzle @ Liq. Temp. |            | TXV @ Liq. Temp. |          | EEV @ Liq. Temp |        | No. of Circuits |
|---------------|-------------|---------------------|------------|------------------|----------|-----------------|--------|-----------------|
|               |             | 50°F                | 100°F      | 50°F             | 100°F    | 50°F            | 100°F  |                 |
| 4 FPI - R454A | RAW4E045**A | 4, TYPE E           | 6, TYPE E  | OTE-10-Z         | OTE-10-Z | SER-C           | SER-C  | 9               |
|               | RAW4E058**A | 5, TYPE G           | 10, TYPE G | OTE-10-Z         | OTE-10-Z | SER-C           | SER-C  | 12              |
|               | RAW4E092**A | 8, TYPE C           | 15, TYPE C | OTE-15-Z         | OTE-15-Z | SER-C           | SER-D  | 18              |
|               | RAW4E116**A | 12, TYPE C          | 20, TYPE C | OTE-15-Z         | OTE-20-Z | SER-C           | SER-D  | 24              |
|               | RAW4E136**A | 12, TYPE A          | 25, TYPE A | OTE-20-Z         | OTE-20-Z | SER-D           | SER-D  | 27              |
|               | RAW4E173**A | 17, TYPE A          | 30, TYPE A | OTE-20-Z         | OTE-30-Z | SER-D           | SERI-F | 36              |
|               | RAW4E214**A | 20, TYPE A          | 35, TYPE A | OTE-30-Z         | OTE-40-Z | SER-D           | SERI-F | 36              |
| 4 FPI - R454C | RAW4E045**A | 4, TYPE E           | 8, TYPE E  | OVE-10-Z         | OVE-10-Z | SER-C           | SER-C  | 9               |
|               | RAW4E058**A | 5, TYPE G           | 10, TYPE G | OVE-10-Z         | OVE-15-Z | SER-C           | SER-C  | 12              |
|               | RAW4E092**A | 10, TYPE C          | 15, TYPE C | OVE-15-Z         | OVE-20-Z | SER-C           | SER-D  | 18              |
|               | RAW4E116**A | 12, TYPE C          | 20, TYPE C | OVE-20-Z         | OVE-30-Z | SER-D           | SER-D  | 24              |
|               | RAW4E136**A | 15, TYPE A          | 25, TYPE A | OVE-20-Z         | OVE-30-Z | SER-D           | SERI-F | 27              |
|               | RAW4E173**A | 20, TYPE A          | 30, TYPE A | OVE-30-Z         | OVE-40-Z | SER-D           | SERI-F | 36              |
|               | RAW4E214**A | 20, TYPE A          | 35, TYPE A | OVE-30-Z         | OVE-40-Z | SERI-F          | SERI-G | 36              |
| 4 FPI - R455A | RAW4E045**A | 4, TYPE E           | 8, TYPE E  | OVE-10-Z         | ERVE-8-Z | SER-C           | SER-C  | 9               |
|               | RAW4E058**A | 6, TYPE G           | 10, TYPE G | OVE-10-Z         | OVE-10-Z | SER-C           | SER-C  | 12              |
|               | RAW4E092**A | 10, TYPE C          | 15, TYPE C | OVE-15-Z         | OVE-20-Z | SER-C           | SER-D  | 18              |
|               | RAW4E116**A | 12, TYPE C          | 20, TYPE C | OVE-20-Z         | OVE-20-Z | SER-D           | SER-D  | 24              |
|               | RAW4E136**A | 15, TYPE A          | 25, TYPE A | OVE-20-Z         | OVE-30-Z | SER-D           | SER-D  | 27              |
|               | RAW4E173**A | 20, TYPE A          | 30, TYPE A | OVE-30-Z         | OVE-30-Z | SER-D           | SERI-F | 36              |
|               | RAW4E214**A | 25, TYPE A          | 35, TYPE A | OVE-30-Z         | OVE-40-Z | SERI-F          | SERI-G | 36              |

The Distributor lines are 1/4 diameter and 36 long.

\* Each asterisk represents a variable character based on voltage ordered. See nomenclature on page 4 for details.

Expansion valve selections based on +25° Suction Temp and 8°F to 12°F evaporator TD. Contact factory for operating conditions outside this range.

T Expansion valves are compatible with R454A refrigerant. V Expansion valves are compatible with R454C and R455A refrigerants.

For other valves, follow manufacturer's selection guidelines.

Base models (with no factory-mounted components) include nozzles sized for 100°F liquid, shipped loose.

## LOOSE COMPONENTS REQUIRED FOR A2L ISOLATION CONTROLS

**A<sub>min</sub>** (MINIMUM ALLOWABLE ROOM SIZE) VALUES // LOW TEMPERATURE ELECTRIC DEFROST // 4 FPI

| Model No.     |             | A <sub>min</sub> Values (Ft <sup>2</sup> ) |                |                |                |                | Loose SSOV Isolation Valve @ Liquid Temp |         |         | Loose CSOV Isolation CV |             |
|---------------|-------------|--------------------------------------------|----------------|----------------|----------------|----------------|------------------------------------------|---------|---------|-------------------------|-------------|
|               |             | 10 Ft Line Run                             | 20 Ft Line Run | 30 Ft Line Run | 40 Ft Line Run | 50 Ft Line Run | Size                                     | 50°F    | 100°F   | Size                    | Description |
| 4 FPI - R454A | RAW4E045**A | 127                                        | 146            | 164            | 183            | 202            | 5/8                                      | SSOV-6  | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW4E058**A | 153                                        | 172            | 190            | 209            | 228            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW4E092**A | 202                                        | 222            | 242            | 261            | 281            | 7/8                                      | SSOV-10 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW4E116**A | 284                                        | 321            | 357            | 393            | 429            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW4E136**A | 310                                        | 348            | 385            | 423            | 460            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW4E173**A | 386                                        | 423            | 461            | 498            | 536            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW4E214**A | 485                                        | 524            | 563            | 602            | 641            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
| 4 FPI - R454C | RAW4E045**A | 123                                        | 141            | 159            | 177            | 195            | 5/8                                      | SSOV-6  | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW4E058**A | 148                                        | 166            | 184            | 203            | 221            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW4E092**A | 196                                        | 215            | 234            | 253            | 272            | 7/8                                      | SSOV-10 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW4E116**A | 276                                        | 311            | 346            | 381            | 416            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW4E136**A | 301                                        | 337            | 374            | 410            | 446            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW4E173**A | 375                                        | 411            | 447            | 483            | 519            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW4E214**A | 471                                        | 508            | 546            | 583            | 621            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |
| 4 FPI - R455A | RAW4E045**A | 112                                        | 129            | 145            | 162            | 178            | 5/8                                      | SSOV-6  | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW4E058**A | 135                                        | 152            | 168            | 185            | 201            | 5/8                                      | SSOV-10 | SSOV-10 | 2-1/8                   | CSOV-17     |
|               | RAW4E092**A | 179                                        | 196            | 213            | 231            | 248            | 7/8                                      | SSOV-10 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW4E116**A | 252                                        | 284            | 316            | 348            | 380            | 7/8                                      | SSOV-19 | SSOV-19 | 2-5/8                   | CSOV-21     |
|               | RAW4E136**A | 275                                        | 308            | 341            | 374            | 407            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW4E173**A | 341                                        | 374            | 407            | 440            | 473            | 7/8                                      | SSOV-19 | SSOV-19 | 3-1/8                   | -           |
|               | RAW4E214**A | 429                                        | 463            | 498            | 532            | 566            | 1-1/8                                    | SSOV-19 | SSOV-19 | 3-5/8                   | -           |

Solenoid Shut Off Valves (SSOV) operate as double duty isolation/liquid line solenoid valve and are required to ship loose and be installed in the field, outside the refrigerated space.

SSOV/CSOV (Check Shut Off Valves) Selection Criteria: Maximum 10 Foot Line Rise, 100 Foot Line Run, 1:1 Condensing Unit/Evaporator.

Contact applications for additional lengths or design considerations.

A<sub>min</sub> values calculated using operating conditions included in UL 60335-2-89 101.DVU.1.2 and standard connection sizes (liquid and suction).

A<sub>min</sub> values provided for 10 Ft, 20 Ft, 30 Ft, 40 Ft and 50 Ft line lengths. Contact applications for additional lengths or design considerations.

A<sub>min</sub> values intended to determine compliance with UL 2-89 and is NOT for charging calculations.

## PHYSICAL SPECIFICATIONS

### AIR DEFROST MODELS AIR DEFROST // 3-PHASE MOTOR

| Model No. |             | Fan<br>Diam.<br>(In.) | Motor Data    |    |     | Refrigerant<br>Connections (In.) |         | No. of<br>Hanger<br>Slot<br>Locations | Fig. | Unit Dimensions (In.) |        |        | Approx.<br>Unit Wt.<br>(Lbs.) |
|-----------|-------------|-----------------------|---------------|----|-----|----------------------------------|---------|---------------------------------------|------|-----------------------|--------|--------|-------------------------------|
|           |             |                       | Motor<br>Qty. | HP | RPM | Liquid<br>Line <sup>^</sup>      | Suction |                                       |      | L                     | W      | H      |                               |
| 6 FRI     | RAW6A042*TA | 30                    | 1             | 1  | 850 | 1/2                              | 1-3/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6A057*TA | 30                    | 1             | 1  | 850 | 5/8                              | 1-3/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6A072*TA | 30                    | 1             | 1  | 850 | 5/8                              | 1-5/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6A084*TA | 30                    | 2             | 1  | 850 | 5/8                              | 1-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6A116*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-1/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6A143*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-1/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6A173*TA | 30                    | 3             | 1  | 850 | 7/8                              | 2-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6A216*TA | 30                    | 3             | 1  | 850 | 7/8                              | 2-5/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6A235*TA | 30                    | 4             | 1  | 850 | 7/8                              | 2-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |
|           | RAW6A291*TA | 30                    | 4             | 1  | 850 | 1-1/8                            | 2-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |

\* Asterisk represents a variable character based on voltage orderd. See nomenclature on page 4 for details.

<sup>^</sup> For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.

For dimensional distance between hanger slots, consult model's corresponding dimensional drawing. Hanger slots are 3/8 deep x 1 wide.

For shipping dimensions and weights, see the Shipping information included with each dimensional drawing.

# PHYSICAL SPECIFICATIONS

## MEDIUM TEMPERATURE ELECTRIC DEFROST

| Model No. |             | Fan<br>Diam.<br>(In.) | Motor Data    |    |     | Refrigerant<br>Connections (In.) |         | No. of<br>Hanger<br>Slot<br>Locations | Fig. | Unit Dimensions (In.) |        |        | Approx.<br>Unit Wt.<br>(Lbs.) |
|-----------|-------------|-----------------------|---------------|----|-----|----------------------------------|---------|---------------------------------------|------|-----------------------|--------|--------|-------------------------------|
|           |             |                       | Motor<br>Qty. | HP | RPM | Liquid<br>Line <sup>^</sup>      | Suction |                                       |      | L                     | W      | H      |                               |
| 6 FRI     | RAW6D042*TA | 30                    | 1             | 1  | 850 | 1/2                              | 1-3/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6D057*TA | 30                    | 1             | 1  | 850 | 5/8                              | 1-3/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6D072*TA | 30                    | 1             | 1  | 850 | 5/8                              | 1-5/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6D084*TA | 30                    | 2             | 1  | 850 | 5/8                              | 1-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6D116*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-1/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6D144*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-1/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6D174*TA | 30                    | 3             | 1  | 850 | 7/8                              | 2-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6D216*TA | 30                    | 3             | 1  | 850 | 7/8                              | 2-5/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6D235*TA | 30                    | 4             | 1  | 850 | 7/8                              | 2-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |
|           | RAW6D292*TA | 30                    | 4             | 1  | 850 | 1-1/8                            | 2-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |

\* Asterisk represents a variable character based on voltage orderd. See nomenclature on page 4 for details.

<sup>^</sup> For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.

For dimensional distance between hanger slots, consult model's corresponding dimensional drawing. Hanger slots are 3/8 deep x 1 wide.

For shipping dimensions and weights, see the Shipping information included with each dimensional drawing.

## PHYSICAL SPECIFICATIONS

### LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR

| Model No. |             | Fan<br>Diam.<br>(In.) | Motor Data    |    |     | Refrigerant<br>Connections (In.) |         | No. of<br>Hanger<br>Slot<br>Locations | Fig. | Unit Dimensions (In.) |        |        | Approx.<br>Unit Wt.<br>(Lbs.) |
|-----------|-------------|-----------------------|---------------|----|-----|----------------------------------|---------|---------------------------------------|------|-----------------------|--------|--------|-------------------------------|
|           |             |                       | Motor<br>Qty. | HP | RPM | Liquid<br>Line <sup>^</sup>      | Suction |                                       |      | L                     | W      | H      |                               |
| 6 FPI     | RAW6E044*TA | 30                    | 1             | 1  | 850 | 1/2                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6E057*TA | 30                    | 1             | 1  | 850 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6E071*TA | 30                    | 1             | 1  | 850 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6E087*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6E114*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6E142*TA | 30                    | 2             | 1  | 850 | 7/8                              | 3-1/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6E170*TA | 30                    | 3             | 1  | 850 | 7/8                              | 3-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6E215*TA | 30                    | 3             | 1  | 850 | 1-1/8                            | 3-5/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6E256*TA | 30                    | 4             | 1  | 850 | 1-1/8                            | 3-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |
| 4 FPI     | RAW4E045*TA | 30                    | 1             | 1  | 850 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW4E058*TA | 30                    | 1             | 1  | 850 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW4E092*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW4E116*TA | 30                    | 2             | 1  | 850 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW4E136*TA | 30                    | 3             | 1  | 850 | 7/8                              | 3-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW4E173*TA | 30                    | 3             | 1  | 850 | 7/8                              | 3-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW4E214*TA | 30                    | 4             | 1  | 850 | 1-1/8                            | 3-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |

\* Asterisk represents a variable character based on voltage orderd. See nomenclature on page 4 for details.

<sup>^</sup> For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.

For dimensional distance between hanger slots, consult model's corresponding dimensional drawing. Hanger slots are 3/8 deep x 1 wide.

Drain connection is 1-1/4 NPT for all models.

For shipping dimensions and weights, see the Shipping information included with each dimensional drawing.

# PHYSICAL SPECIFICATIONS

## LOW TEMPERATURE ELECTRIC DEFROST // 3-PHASE MOTOR W/ HIGH-STATIC FAN BLADES

| Model No. |             | Fan<br>Diam.<br>(In.) | Motor Data    |     |       | Refrigerant<br>Connections (In.) |         | No. of<br>Hanger<br>Slot<br>Locations | Fig. | Unit Dimensions (In.) |        |        | Approx.<br>Unit Wt.<br>(Lbs.) |
|-----------|-------------|-----------------------|---------------|-----|-------|----------------------------------|---------|---------------------------------------|------|-----------------------|--------|--------|-------------------------------|
|           |             |                       | Motor<br>Qty. | HP  | RPM   | Liquid<br>Line <sup>^</sup>      | Suction |                                       |      | L                     | W      | H      |                               |
| 6 FPI     | RAW6E044*HA | 30                    | 1             | 1.5 | 1,140 | 1/2                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6E057*HA | 30                    | 1             | 1.5 | 1,140 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6E071*HA | 30                    | 1             | 1.5 | 1,140 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW6E087*HA | 30                    | 2             | 1.5 | 1,140 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6E114*HA | 30                    | 2             | 1.5 | 1,140 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6E142*HA | 30                    | 2             | 1.5 | 1,140 | 7/8                              | 3-1/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW6E170*HA | 30                    | 3             | 1.5 | 1,140 | 7/8                              | 3-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6E215*HA | 30                    | 3             | 1.5 | 1,140 | 1-1/8                            | 3-5/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW6E256*HA | 30                    | 4             | 1.5 | 1,140 | 1-1/8                            | 3-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |
| 4 FPI     | RAW4E045*HA | 30                    | 1             | 1.5 | 1,140 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW4E058*HA | 30                    | 1             | 1.5 | 1,140 | 5/8                              | 2-1/8   | 4                                     | 1    | 59-7/8                | 27-3/8 | 49-1/4 | 303                           |
|           | RAW4E092*HA | 30                    | 2             | 1.5 | 1,140 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW4E116*HA | 30                    | 2             | 1.5 | 1,140 | 7/8                              | 2-5/8   | 6                                     | 2    | 99-7/8                | 27-3/8 | 49-1/4 | 509                           |
|           | RAW4E136*HA | 30                    | 3             | 1.5 | 1,140 | 7/8                              | 3-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW4E173*HA | 30                    | 3             | 1.5 | 1,140 | 7/8                              | 3-1/8   | 8                                     | 3    | 139-7/8               | 27-3/8 | 49-1/4 | 682                           |
|           | RAW4E214*HA | 30                    | 4             | 1.5 | 1,140 | 1-1/8                            | 3-5/8   | 10                                    | 4    | 179-7/8               | 27-3/8 | 49-1/4 | 1,050                         |

\* Asterisk represents a variable character based on voltage orderd. See nomenclature on page 4 for details.

<sup>^</sup> For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.

For dimensional distance between hanger slots, consult model's corresponding dimensional drawing. Hanger slots are 3/8 deep x 1 wide.

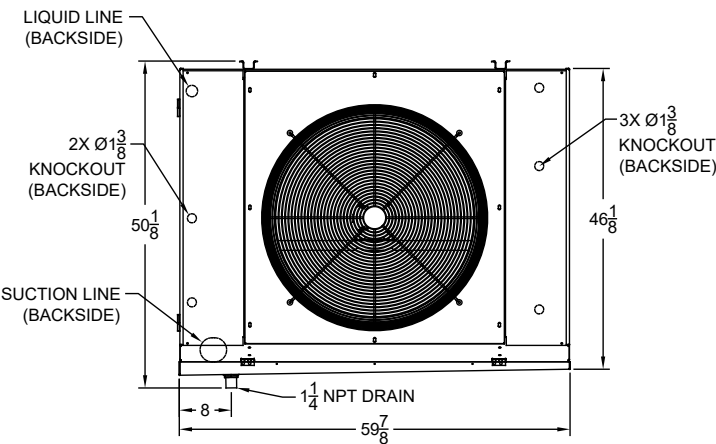
Drain connection is 1-1/4 NPT for all models.

For shipping dimensions and weights, see the Shipping information included with each dimensional drawing.

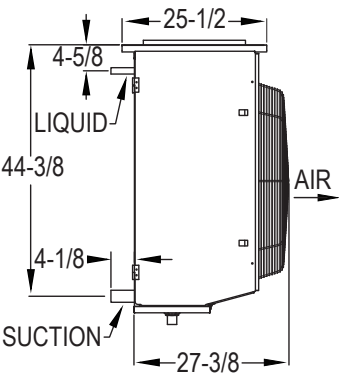
DIMENSIONAL DRAWINGS

Figure 1: Single Fan

Front View



Side View



Top View

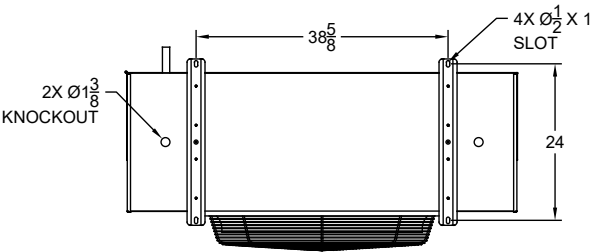


FIGURE 1: SHIPPING INFORMATION

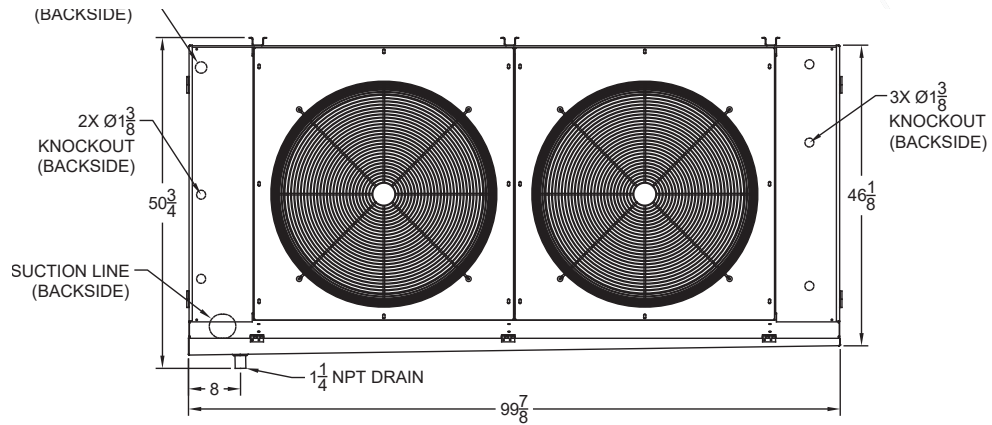
| No. of Fans | Shipping Dimensions (In.) |    |    | Shipping Weight (Lbs) |
|-------------|---------------------------|----|----|-----------------------|
|             | L                         | W  | H  |                       |
| 1           | 69                        | 42 | 66 | 480                   |

All mounting holes are 1/2 diameter.  
Mounted hanger spacers aid in the correct installation. All dimensions are in inches.

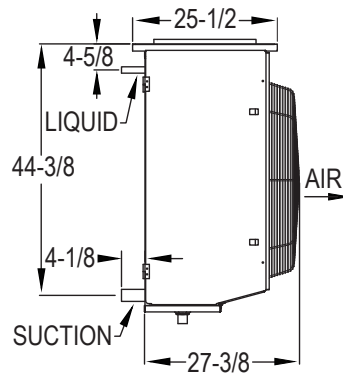
## DIMENSIONAL DRAWINGS

Figure 2: Two Fan

### Front View



### Side View



### Top View

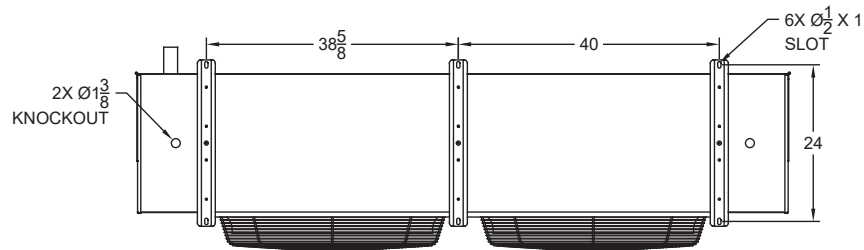


FIGURE 2: SHIPPING INFORMATION

| No. of Fans | Shipping Dimensions (In.) |    |    | Shipping Weight (Lbs) |
|-------------|---------------------------|----|----|-----------------------|
|             | L                         | W  | H  |                       |
| 2           | 109                       | 42 | 66 | 750                   |

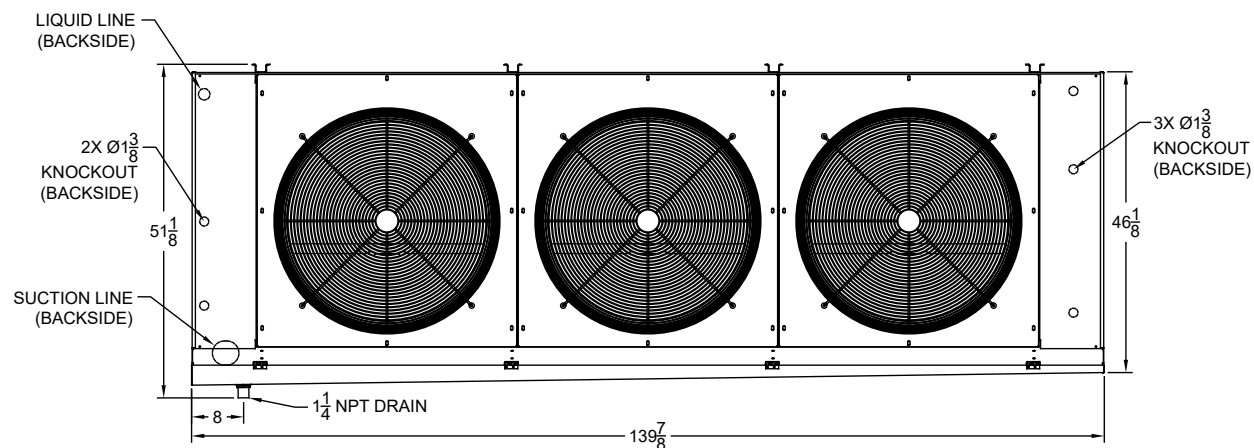
All mounting holes are 1/2 diameter.

Mounted hanger spacers aid in the correct installation. All dimensions are in inches.

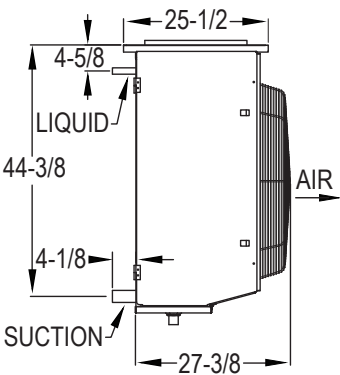
DIMENSIONAL DRAWINGS

Figure 3: Three Fan

Front View



Side View



Top View

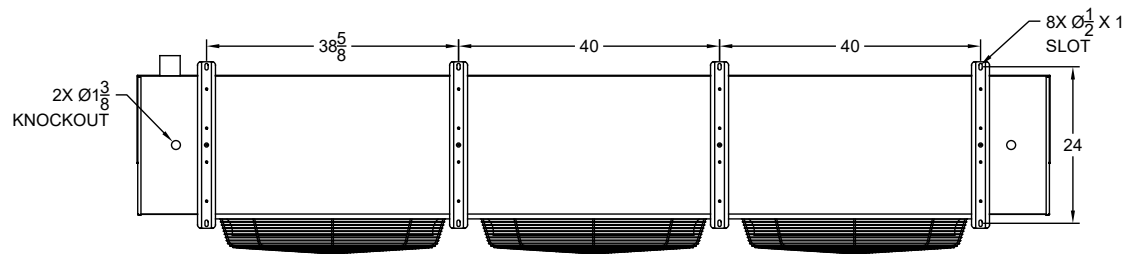


FIGURE 3: SHIPPING INFORMATION

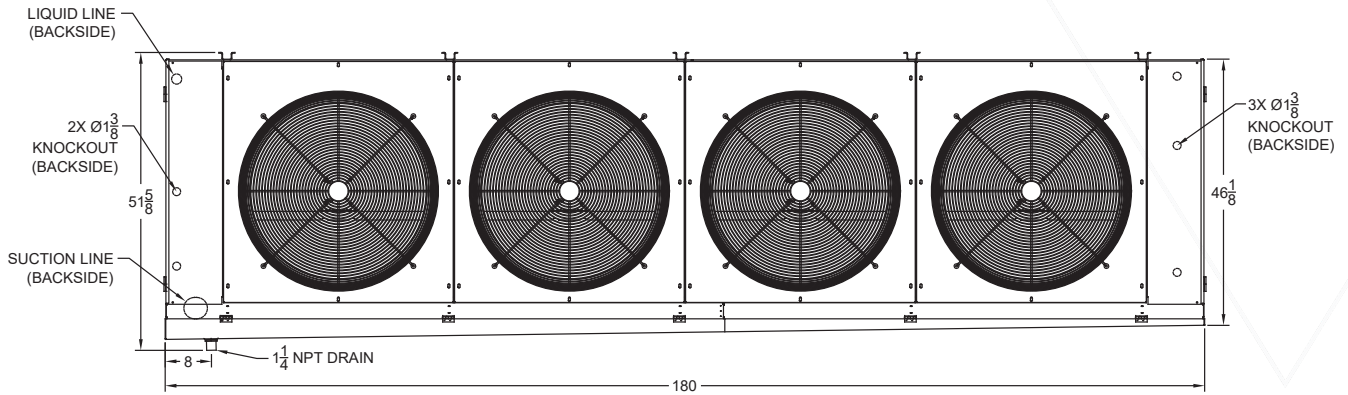
| No. of Fans | Shipping Dimensions (In.) |    |    | Shipping Weight (Lbs) |
|-------------|---------------------------|----|----|-----------------------|
|             | L                         | W  | H  |                       |
| 3           | 146                       | 42 | 66 | 1,030                 |

All mounting holes are 1/2 diameter.  
Mounted hanger spacers aid in the correct installation. All dimensions are in inches.

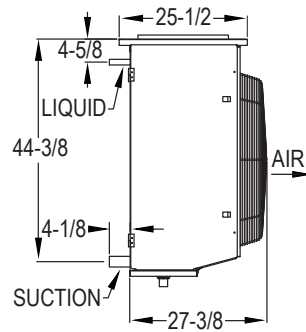
## DIMENSIONAL DRAWINGS

**Figure 4: Four Fan**

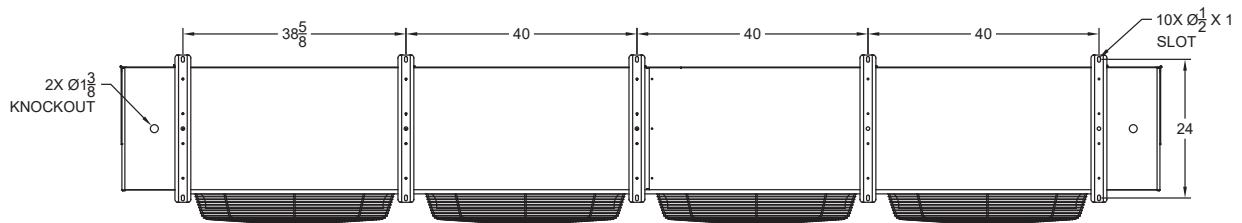
Front View



Top View



End View



**FIGURE 4: SHIPPING INFORMATION**

| No. of Fans | Shipping Dimensions (In.) |    |    | Shipping Weight (Lbs) |
|-------------|---------------------------|----|----|-----------------------|
|             | L                         | W  | H  |                       |
| 4           | 189                       | 42 | 66 | 1,360                 |

All mounting holes are 1/2 diameter.

Mounted hanger spacers aid in the correct installation. All dimensions are in inches.



***Russell***

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