



Publication No. RU-RLX-0918B  
Replaces RU-RLX-0918A and all previous versions

**Next-Gen All-Temp**

# **LOW PROFILE UNIT COOLER**

Small to Medium Walk-Ins  
Cooler and Freezer Applications



**Air Defrost**  
4,100 to 45,900 BTUH

**Electric Defrost**  
2,700 to 33,000 BTUH

**Hot Gas Defrost**  
2,700 to 33,000 BTUH



# NEXT-GEN ALL-TEMP

## Features

Russell All-Temps were the original low profile unit coolers with the air draw-through design that established the industry standard as being the all-purpose model for walk-in coolers, freezers and other applications. We've taken these unit coolers to the next level with the release of the Next-Gen All-Temp models. The units feature a new fan guard design and deep draw venturi to achieve optimal airflow and easy access for serviceability. These models can be used with multiple refrigerants, and are available in air, electric and hot gas defrost configurations.

### SIZES

There are a wide array of sizes available with capacities ranging from 2,700 to 45,900 BTUH at a 10°TD. One through six fan models are available with air flow spanning a range of 800 to 4,650 CFM.

### HOUSING

The embossed aluminum casing is lightweight yet durable. Each fan section is baffled to prevent short cycling of the discharge air. The units are designed to mount flush to the ceiling and are compliant with NSF requirements. The top pan includes 1/2" wide slotted mounting points to simplify installation. The removable drain fitting is installed into the bottom of the drain pan for easy field connection and it can be quickly replaced without changing out the entire drain pan. End panels can be slid out from the front of the unit providing easy serviceability from the front or side of the unit, allowing convenient access to the roomy electrical and piping compartments.

### COIL

Copper hairpins consist of high efficiency 3/8" enhanced copper tubes which are staggered and mechanically expanded into corrugated aluminum fins achieving maximum heat transfer while reducing refrigerant charge. Die formed fin collars provide even fin spacing. Models are available in 4 and 6 fins per inch. Sweat connections are standard on all models.

### MOTORS

Standard models feature highly efficient Electronically Commutated (EC) motors that can be field or factory wired for dual speed operation. Dual Speed EC motors are available for 115V or 208/230V and are compliant with California Title 24 regulations. PSC motors are also available for 115V, 208/230V or 460V requirements. All motors include thermal overload protection.

### CONFIGURATIONS

Units are available as fully configurable (no mounted accessories) or they can be pre-assembled with the most requested options pre-installed at the factory.

Pre-assembly Code<sup>1</sup>:

- Blank = Configurable (no factory installed options)
- E = EcoNet<sup>®</sup> Control Package with EEV
- T = Factory mounted mechanical TXV
- L = Factory mounted mechanical TXV, Liquid Line Solenoid and mechanical T-Stat
- M = Master Configuration with mounted mechanical TXV, mechanical T-Stat, LLS and copper Tee

### FANS

Heavy duty 12" aluminum fans are balanced to provide vibration-free operation. Improved black plastic fan guard design and deep draw venturi achieve optimal air pattern.

### ELECTRICAL

Available for 115V, 115-230V (Air Defrost EC motor only), 208/230V and 460V (see pages 5 through 9). A large electrical compartment is supplied internal to the unit to house the electrical components and is easily accessible by removing the slide out end panel. All models are UL and cUL listed and are available for 60 Hz or 50 Hz applications.

### AIR DEFROST

Air Defrost models (RL6A) are designed for use in coolers 35°F and warmer. All components are factory wired to convenient screw-type terminal strips.

### ELECTRIC DEFROST

Electric Defrost models (RL\*E) are designed for use in coolers and freezers between 34°F to -20°F. Defrost heaters are mounted on the air intake side of the unit for optimal performance and easy maintenance. A lower heater is installed inside the drain pan for fast, reliable drainage. A defrost termination fan delay thermostat (DTFD) terminates the defrost cycle when the temperature is satisfied. The fan delay allows the warm coil to cool after a defrost cycle prior to the fans turning on. A heater safety thermostat is installed to prevent overheating.

### HOT GAS DEFROST

There are two types of Hot Gas Defrost models available: 3-pipe Hot Gas models (RL\*H) and 2-pipe Hot Gas Reverse Cycle units (RL\*G) (see pages 10 through 11 for more details). Hot Gas Defrost models are designed for use in coolers and freezers between 34°F and -20°F. All Hot Gas units include a fixed DTFD factory wired and an electric drain pan heater.

## Optional Features

- EcoNet<sup>®</sup> Enabled Controller factory-installed
- EcoNet<sup>®</sup> Command Center (shipped loose)
- Coated fin pack<sup>2</sup> (Russproof, ElectroFin, Bronz-Glow, or Heresite)
- Coated housing (same coatings as above)
- Adjustable termination/ fan delay control<sup>3</sup>
- Insulated drain pan<sup>3</sup>

### Notes

\* Asterisk represents a variable character based on fins per inch. See page 4 for nomenclature.

1. Codes T, L and M are intended for units in finished goods inventory only. Call out each required option separately for units ordered for normal lead time delivery.
2. Option available for all models.
3. Option available for electric and hot gas defrost models.

# LOW PROFILE UNIT COOLER

## Highlighted Features and Options



### FANS AND HOUSING

- 12" heavy duty aluminum fans are balanced for vibration-free operation
- High efficiency fan guard design and deep draw venturi provide optimal air flow
- Mounts flush to ceiling
- Slide out end panels
- NSF approved



### COILS AND DEFROST HEATERS

- Available in 4 or 6 fins per inch (FPI)
- Electric defrost heaters are mounted on the air intake coil face to provide optimal performance and easy service access
- The drain pan heater is affixed to the drain pan and is easily removable for service or cleaning



### 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, provides continuous communication between system components, and the remote mount display allows for EcoNet Enabled Unit Coolers to be programmed, monitored and troubleshoot outside of the space being cooled

### ELECTRICAL AND PIPING



Unit shown  
with optional  
components  
installed

- End panels slide out for easy service from the front or sides of the unit
- Ample room in electrical and piping compartments for easy access



# NEXT-GEN ALL-TEMP

Electronically commutated motors bring energy efficiency to the refrigeration Unit Cooler market. Features of the EC motors we offer include:

- Integrated control with sealed construction
- Locked rotor and overload protection
- Durable ball bearing construction for long commercial life
- Unique Hall Effect Sensor design prevents syncing or resonance
- Threaded shaft uses hubless fan blade
- Motors can be configured for single or dual speed operation
- Dual voltage motor internal power supply operates at correct rpm from 115-230 VAC

## Energy Savings by Switching from PSC to Efficient EC Motor

Chart is based on Energy Cost of \$0.10 per kWh.

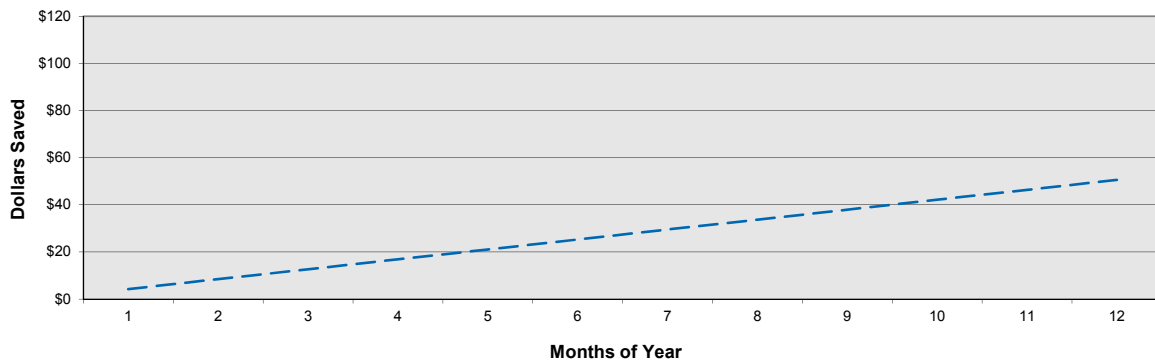
| Motor Change | Std Motor Power Watts/Mtr | Change to Motor Power Watts/Mtr | Reduced Power Watts/Mtr | Run Time Hrs/Day | Motor Energy Savings kWh/Yr | Motor Energy Savings \$/Yr | Reduced Box Load MBTU/Yr | Cond. Unit Energy Savings \$/Yr | Yearly Saving \$ Per MTR | Pay back in Yrs |
|--------------|---------------------------|---------------------------------|-------------------------|------------------|-----------------------------|----------------------------|--------------------------|---------------------------------|--------------------------|-----------------|
| PSC to EC    | 85                        | 47                              | 38                      | 22               | 305                         | 31                         | 1041                     | 20                              | 51                       | 2.0             |

Subtract 6% from total savings for medium temperature air defrost units that run 24 hours per day.

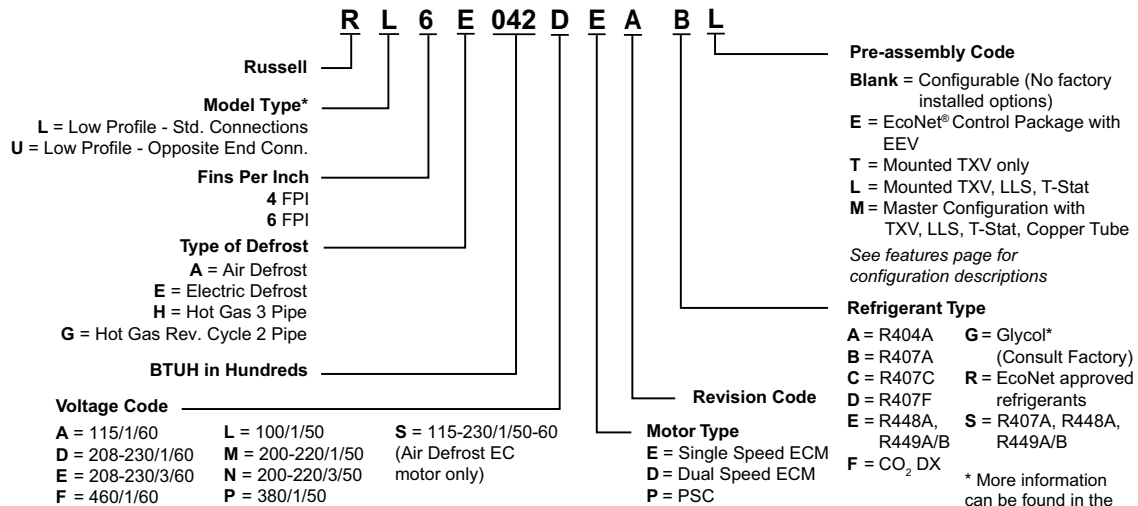
PSC = 1/20 HP PSC motor

EC = 50 Watt Electronically Commutated motor

Yearly Savings by Switching from PSC to EC Motor



## MODEL NUMBER NOMENCLATURE



\* NOTE: Refrigerant and electrical connection locations have been changed for the Next-Gen All-Temp design. Standard connections ("L") are now opposite of the legacy All-Temp models. Mirror image connections ("U" - same end as legacy All-Temp models) are available only as built-to-order base units with no installed options. Refer to the drawing on the back cover for more detail.

# LOW PROFILE UNIT COOLER

## Performance and Electrical Data - Air Defrost Models - 6 FPI

| Model Number | BTUH Capacity<br>@ 25°F S.T. &<br>10°F TD |  | CFM   | No. of Fans | Total Fan Motor AMPS - 1 Phase |              |            |              |      | MCA                        | MOPD                       |
|--------------|---|--|-------|-------------|--------------------------------|--------------|------------|--------------|------|----------------------------|----------------------------|
|              |   |  |       |             | EC Motors <sup>†</sup>         |              | PSC Motors |              |      |                            |                            |
|              | R404A/<br>CO <sub>2</sub> DX              | R407A/<br>R448A/<br>R449A/B <sup>^</sup> |       |             | 115V                           | 208-<br>230V | 115V       | 208-<br>230V | 460V | 115V/<br>208-230V/<br>460V | 115V/<br>208-230V/<br>460V |
| RL6A041***   | 4,100                                     | 4,800                                    | 800   | 1           | 0.8                            | 0.5          | 1.0        | 0.5          | 0.4  | 15.0                       | 20                         |
| RL6A052***   | 5,200                                     | 6,000                                    | 785   | 1           | 0.8                            | 0.5          | 1.0        | 0.5          | 0.4  |                            |                            |
| RL6A066***   | 6,600                                     | 7,800                                    | 775   | 1           | 0.8                            | 0.5          | 1.0        | 0.5          | 0.4  |                            |                            |
| RL6A073***   | 7,300                                     | 8,500                                    | 1,600 | 2           | 1.6                            | 1.0          | 2.0        | 1.0          | 0.8  | 15.0                       | 20                         |
| RL6A094***   | 9,400                                     | 10,900                                   | 1,570 | 2           | 1.6                            | 1.0          | 2.0        | 1.0          | 0.8  |                            |                            |
| RL6A117***   | 11,700                                    | 13,600                                   | 1,550 | 2           | 1.6                            | 1.0          | 2.0        | 1.0          | 0.8  |                            |                            |
| RL6A130***   | 13,000                                    | 15,300                                   | 1,550 | 2           | 1.6                            | 1.0          | 2.0        | 1.0          | 0.8  | 15.0                       | 20                         |
| RL6A141***   | 14,100                                    | 16,300                                   | 2,355 | 3           | 2.4                            | 1.5          | 3.0        | 1.5          | 1.2  |                            |                            |
| RL6A161***   | 16,100                                    | 18,800                                   | 2,355 | 3           | 2.4                            | 1.5          | 3.0        | 1.5          | 1.2  |                            |                            |
| RL6A181***   | 18,100                                    | 21,200                                   | 2,325 | 3           | 2.4                            | 1.5          | 3.0        | 1.5          | 1.2  | 15.0                       | 20                         |
| RL6A195***   | 19,500                                    | 22,500                                   | 3,140 | 4           | 3.2                            | 2.0          | 4.0        | 2.0          | 1.6  |                            |                            |
| RL6A235***   | 23,500                                    | 27,800                                   | 3,140 | 4           | 3.2                            | 2.0          | 4.0        | 2.0          | 1.6  |                            |                            |
| RL6A260***   | 26,000                                    | 30,400                                   | 3,100 | 4           | 3.2                            | 2.0          | 4.0        | 2.0          | 1.6  | 15.0                       | 20                         |
| RL6A295***   | 29,500                                    | 36,100                                   | 3,875 | 5           | 4.0                            | 2.5          | 5.0        | 2.5          | 2.0  |                            |                            |
| RL6A330***   | 33,000                                    | 38,800                                   | 4,650 | 6           | 4.8                            | 3.0          | 6.0        | 3.0          | 2.4  |                            |                            |
| RL6A390***   | 39,000                                    | 45,900                                   | 4,650 | 6           | 4.8                            | 3.0          | 6.0        | 3.0          | 2.4  |                            |                            |

Use EC motors for 50 Hz operation.

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

<sup>^</sup> Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.

<sup>†</sup> These Electronically Commutated (EC) Motors are not available for 460V. EC Motors can be field or factory wired for dual-speed operation. Dual-speed EC motors are compliant with California Title 24 regulations.

**Energy Independence and Security Act of 2007** specifies that walk-in coolers and freezers under 3,000 square feet that are manufactured after January 1, 2009 shall have evaporators with EC motors when they are single phase, less than 460 volt and less than 1 HP.

Mounts flush to the ceiling to  
maximize storage space

UL certified for use with  
multiple refrigerants

Single fan through six fan models  
are available



# NEXT-GEN ALL-TEMP

## Performance and Electrical Data - Electric Defrost Models - 6 FPI

| Model Number | BTUH Capacity<br>@ -20°F S.T. &<br>10°F TD <sup>1</sup> |  | CFM   | No. of Fans | Total Fan Motor AMPS - 1 Phase |            |      | MCA           | MOPD          |
|--------------|---|--|-------|-------------|--------------------------------|------------|------|---------------|---------------|
|              | R404A /<br>CO <sub>2</sub> DX                           | R407A/<br>R448A/<br>R449A/B <sup>^</sup> |       |             | EC Motors <sup>†</sup>         | PSC Motors |      |               |               |
|              |   |  |       |             | 230V                           | 230V       | 460V | 230V/<br>460V | 230V/<br>460V |
| RL6E035***   | 3,500   | 4,000                                    | 800   | 1           | 0.5                            | 0.5        | 0.4  | 15.0          | 20            |
| RL6E042***   | 4,200   | 4,900                                    | 785   | 1           | 0.5                            | 0.5        | 0.4  |               |               |
| RL6E049***   | 4,900   | 5,600                                    | 775   | 1           | 0.5                            | 0.5        | 0.4  |               |               |
| RL6E066***   | 6,600   | 7,600                                    | 1,600 | 2           | 1.0                            | 1.0        | 0.8  | 15.0          | 20            |
| RL6E077***   | 7,700   | 8,800                                    | 1,570 | 2           | 1.0                            | 1.0        | 0.8  |               |               |
| RL6E090***   | 9,000   | 10,600                                   | 1,550 | 2           | 1.0                            | 1.0        | 0.8  |               |               |
| RL6E105***   | 10,500  | 12,400                                   | 1,550 | 2           | 1.0                            | 1.0        | 0.8  | 15.0          | 20            |
| RL6E121***   | 12,100  | 14,200                                   | 2,355 | 3           | 1.5                            | 1.5        | 1.2  |               |               |
| RL6E142***   | 14,200  | 16,600                                   | 2,325 | 3           | 1.5                            | 1.5        | 1.2  |               |               |
| RL6E162***   | 16,200  | 18,700                                   | 3,140 | 4           | 2.0                            | 2.0        | 1.6  | 15.0          | 20            |
| RL6E182***   | 18,200  | 21,000                                   | 3,100 | 4           | 2.0                            | 2.0        | 1.6  |               |               |
| RL6E200***   | 20,000  | 22,800                                   | 3,925 | 5           | 2.5                            | 2.5        | 2.0  |               |               |
| RL6E244***   | 24,400  | 27,900                                   | 4,710 | 6           | 3.0                            | 3.0        | 2.4  | 15.0          | 20            |
| RL6E281***   | 28,100  | 33,000                                   | 4,650 | 6           | 3.0                            | 3.0        | 2.4  |               |               |

| Model Number | Heater Amps |      |      | Heater<br>Watts |
|--------------|-------------|------|------|-----------------|
|              | 230V        |      | 460V |                 |
|              | 1PH         | 3PH  | 1PH  |                 |
| RL6E035***   | 4.9         | –    | 2.5  | 1,125           |
| RL6E042***   | 4.9         | –    | 2.5  | 1,125           |
| RL6E049***   | 4.9         | –    | 2.5  | 1,125           |
| RL6E066***   | 9.8         | –    | 4.9  | 2,250           |
| RL6E077***   | 9.8         | –    | 4.9  | 2,250           |
| RL6E090***   | 9.8         | –    | 4.9  | 2,250           |
| RL6E105***   | 9.8         | –    | 4.9  | 2,250           |
| RL6E121***   | 14.3        | –    | 7.2  | 3,300           |
| RL6E142***   | 14.3        | –    | 7.2  | 3,300           |
| RL6E162***   | 19.2        | –    | 9.6  | 4,425           |
| RL6E182***   | 19.2        | –    | 9.6  | 4,425           |
| RL6E200***   | 24.1        | 14.0 | 12.0 | 5,550           |
| RL6E244***   | 29.0        | 16.8 | 14.5 | 6,675           |
| RL6E281***   | 29.0        | 16.8 | 14.5 | 6,675           |

| <sup>1</sup> Capacity Correction for Electric and<br>Hot Gas Defrost Evaporators |      |       |        |       |        |
|--|------|-------|--------|-------|--------|
| S.S.T. (dew)   | 20°F | 0°F   | -10°F  | -20°F | -30°F  |
| Multiply<br>Capacity by:   | 1.15 | 1.075 | 1.0375 | 1     | 0.9625 |

Use EC motors for 50 Hz operation.

– Not available.

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

<sup>^</sup> Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.

<sup>†</sup> These Electronically Commutated (EC) Motors are not available for 460V. EC Motors can be field or factory wired for dual-speed operation. Dual-speed EC motors are compliant with California Title 24 regulations.

**Energy Independence and Security Act of 2007** specifies that walk-in coolers and freezers under 3,000 square feet that are manufactured after January 1, 2009 shall have evaporators with EC motors when they are single phase, less than 460 volt and less than 1 HP.

# LOW PROFILE UNIT COOLER

## Performance and Electrical Data - Electric Defrost Models - 4 FPI

| Model Number | BTUH Capacity<br>@ -20°F S.T. &<br>10°F TD <sup>1</sup> |  | CFM   | No. of Fans | Total Fan Motor AMPS - 1 Phase |            |      | MCA           | MOPD          |
|--------------|---|--|-------|-------------|--------------------------------|------------|------|---------------|---------------|
|              |   |  |       |             | EC Motors <sup>†</sup>         | PSC Motors |      |               |               |
|              | R404A /<br>CO <sub>2</sub> DX                           | R407A/<br>R448A/<br>R449A/B <sup>^</sup> |       |             | 230V                           | 230V       | 460V | 230V/<br>460V | 230V/<br>460V |
| RL4E027***   | 2,700   | 3,100                                    | 800   | 1           | 0.5                            | 0.5        | 0.4  | 15.0          | 20            |
| RL4E032***   | 3,200   | 3,800                                    | 785   | 1           | 0.5                            | 0.5        | 0.4  |               |               |
| RL4E038***   | 3,800   | 4,400                                    | 775   | 1           | 0.5                            | 0.5        | 0.4  |               |               |
| RL4E051***   | 5,100   | 5,900                                    | 1,600 | 2           | 1.0                            | 1.0        | 0.8  | 15.0          | 20            |
| RL4E064***   | 6,400   | 7,300                                    | 1,570 | 2           | 1.0                            | 1.0        | 0.8  |               |               |
| RL4E080***   | 8,000   | 9,500                                    | 1,550 | 2           | 1.0                            | 1.0        | 0.8  |               |               |
| RL4E094***   | 9,400   | 11,000                                   | 2,355 | 3           | 1.5                            | 1.5        | 1.2  | 15.0          | 20            |
| RL4E110***   | 11,000  | 12,800                                   | 2,325 | 3           | 1.5                            | 1.5        | 1.2  |               |               |
| RL4E125***   | 12,500  | 14,400                                   | 3,140 | 4           | 2.0                            | 2.0        | 1.6  |               |               |
| RL4E141***   | 14,100  | 16,300                                   | 3,100 | 4           | 2.0                            | 2.0        | 1.6  | 15.0          | 20            |
| RL4E155***   | 15,500  | 17,700                                   | 3,925 | 5           | 2.5                            | 2.5        | 2.0  |               |               |
| RL4E195***   | 19,500  | 22,300                                   | 4,710 | 6           | 3.0                            | 3.0        | 2.4  |               |               |
| RL4E230***   | 23,000  | 27,000                                   | 4,650 | 6           | 3.0                            | 3.0        | 2.4  |               |               |

| Model Number | Heater Amps |      |      | Heater<br>Watts |
|--------------|-------------|------|------|-----------------|
|              | 230V        |      | 460V |                 |
|              | 1PH         | 3PH  | 1PH  |                 |
| RL4E027***   | 4.9         | —    | 2.5  | 1,125           |
| RL4E032***   | 4.9         | —    | 2.5  | 1,125           |
| RL4E038***   | 4.9         | —    | 2.5  | 1,125           |
| RL4E051***   | 9.8         | —    | 4.9  | 2,250           |
| RL4E064***   | 9.8         | —    | 4.9  | 2,250           |
| RL4E080***   | 9.8         | —    | 4.9  | 2,250           |
| RL4E094***   | 14.3        | —    | 7.2  | 3,300           |
| RL4E110***   | 14.3        | —    | 7.2  | 3,300           |
| RL4E125***   | 19.2        | —    | 9.6  | 4,425           |
| RL4E141***   | 19.2        | —    | 9.6  | 4,425           |
| RL4E155***   | 24.1        | 14.0 | 12.0 | 5,550           |
| RL4E195***   | 29.0        | 16.8 | 14.5 | 6,675           |
| RL4E230***   | 29.0        | 16.8 | 14.5 | 6,675           |

| <sup>1</sup> Capacity Correction for Electric and<br>Hot Gas Defrost Evaporators |      |       |        |       |        |
|--|------|-------|--------|-------|--------|
| S.S.T. (dew)   | 20°F | 0°F   | -10°F  | -20°F | -30°F  |
| Multiply<br>Capacity by:   | 1.15 | 1.075 | 1.0375 | 1     | 0.9625 |

Use EC motors for 50 Hz operation.

— Not available.

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

<sup>^</sup> Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.

<sup>†</sup> These Electronically Commutated (EC) Motors are not available for 460V. EC Motors can be field or factory wired for dual-speed operation. Dual-speed EC motors are compliant with California Title 24 regulations.

**Energy Independence and Security Act of 2007** specifies that walk-in coolers and freezers under 3,000 square feet that are manufactured after January 1, 2009 shall have evaporators with EC motors when they are single phase, less than 460 volt and less than 1 HP.

# NEXT-GEN ALL-TEMP

## Electric Defrost Kits

| MODEL NUMBER | 1 UNIT COOLER PER SYSTEM |         |         | 2 UNIT COOLERS PER SYSTEM |          |         | 3 UNIT COOLERS PER SYSTEM |         |         |
|--------------|--------------------------|---------|---------|---------------------------|----------|---------|---------------------------|---------|---------|
|              | 230V/1                   | 230V/3  | 460V/1  | 230V/1                    | 230V/3   | 460V/1  | 230V/1                    | 230V/3  | 460V/1  |
| <b>6 FPI</b> |                          |         |         |                           |          |         |                           |         |         |
| RL6E035***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED30-A2                   | –       | ED32-A4 |
| RL6E042***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED30-A2                   | –       | ED32-A4 |
| RL6E049***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED30-A2                   | –       | ED32-A4 |
| RL6E066***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED30-A2                   | –       | ED32-A4 |
| RL6E077***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED30-A2                   | –       | ED32-A4 |
| RL6E090***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED30-A2                   | –       | ED32-A4 |
| RL6E105***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED33-A2                   | –       | ED32-A4 |
| RL6E121***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED33-A2                   | –       | ED32-A4 |
| RL6E142***   | ED5-A2                   | –       | ED17-A4 | ED20-A2*                  | –        | ED22-A4 | ED33-A2                   | –       | ED32-A4 |
| RL6E162***   | ED6-A2                   | –       | ED17-A4 | ED23-A2*                  | –        | ED22-A4 | ED35-A2                   | –       | ED32-A4 |
| RL6E182***   | ED6-A2                   | –       | ED17-A4 | ED23-A2*                  | –        | ED22-A4 | ED35-A2                   | –       | ED32-A4 |
| RL6E200***   | ED7-A2                   | ED11-B2 | ED17-A4 | ED23-A2*                  | ED21-B2* | ED22-A4 | ED35-A2                   | ED33-B2 | ED34-A4 |
| RL6E244***   | ED7-A2                   | ED11-B2 | ED17-A4 | ED25-A2*                  | ED23-B2* | ED22-A4 | ED35-A2                   | ED35-B2 | ED34-A4 |
| RL6E281***   | ED7-A2                   | ED11-B2 | ED17-A4 | ED25-A2*                  | ED23-B2* | ED22-A4 | ED35-A2                   | ED35-B2 | ED34-A4 |

### 4 FPI

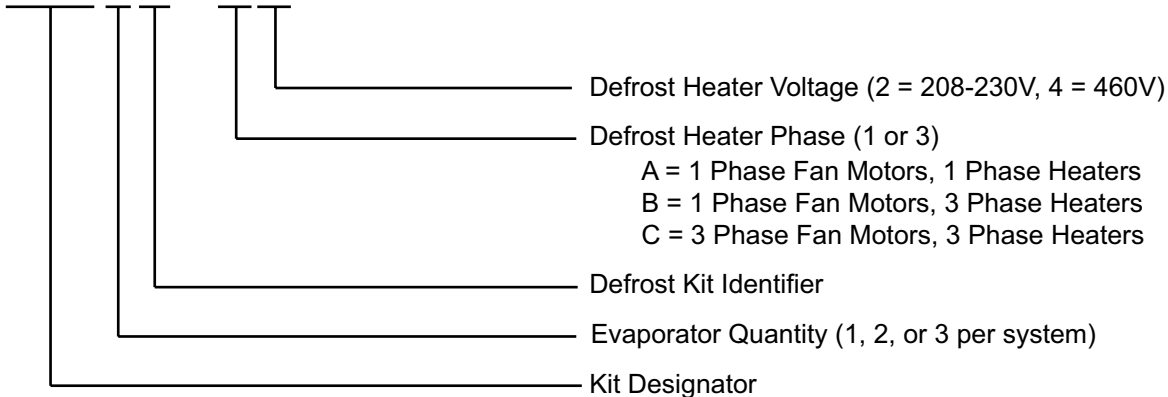
|            |        |         |         |          |          |         |         |         |         |
|------------|--------|---------|---------|----------|----------|---------|---------|---------|---------|
| RL4E027*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E032*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E038*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E051*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E064*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E080*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E094*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED30-A2 | –       | ED32-A4 |
| RL4E110*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED33-A2 | –       | ED32-A4 |
| RL4E125*** | ED5-A2 | –       | ED17-A4 | ED20-A2* | –        | ED22-A4 | ED33-A2 | –       | ED32-A4 |
| RL4E141*** | ED6-A2 | –       | ED17-A4 | ED23-A2* | –        | ED22-A4 | ED35-A2 | –       | ED32-A4 |
| RL4E155*** | ED6-A2 | ED11-B2 | ED17-A4 | ED23-A2* | ED21-B2* | ED22-A4 | ED35-A2 | ED33-B2 | ED32-A4 |
| RL4E195*** | ED7-A2 | ED11-B2 | ED17-A4 | ED23-A2* | ED23-B2* | ED22-A4 | ED35-A2 | ED35-B2 | ED34-A4 |
| RL4E230*** | ED7-A2 | ED11-B2 | ED17-A4 | ED23-A2* | ED23-B2* | ED22-A4 | ED35-A2 | ED35-B2 | ED34-A4 |

\* 1/2 through 3 HP condensing units require ED210 or ED213 for systems with 2 evaporators. ED213 is not large enough for use with six-fan evaporators.  
– Not available.

See additional notes on page 9.

### ELECTRIC DEFROST KIT NOMENCLATURE

**ED 12 - A2**





# LOW PROFILE UNIT COOLER

## Electric Defrost Kits

| KIT NUMBER               | TIMER | AUXILIARY SWITCH | BLOCK-OUT RELAY | DEFROST CONTACTOR | FAN CONTACTOR | SEQUENCING RELAY |
|--------------------------|-------|------------------|-----------------|-------------------|---------------|------------------|
| ED5-230/1                | 1     | –                | 1-15A           | –                 | –             | –                |
| ED6-230/1                | 1     | –                | 1-20A           | –                 | –             | –                |
| ED7-230/1                | 1     | –                | 1-25A           | –                 | –             | –                |
| ED10-230/1               | 1     | –                | 1-30A           | –                 | –             | –                |
| ED11-230/3               | 1     | 1                | –               | 1-30A             | –             | –                |
| ED17-460/1               | 1     | 1                | –               | 1-15A             | 1-15A         | –                |
| ED18-460/1               | 1     | 1                | –               | 1-20A             | 1-20A         | –                |
| ED12-460/1               | 1     | 1                | –               | 1-30A             | 1-25A         | –                |
| <sup>1</sup> ED210-230/1 | 1     | –                | 1-30A           | –                 | –             | –                |
| <sup>1</sup> ED213-230/1 | 1     | 1                | –               | 1-50A             | –             | –                |
| <sup>1</sup> ED213-230/3 | 1     | 1                | –               | 1-50A             | –             | –                |
| ED20-230/1               | 1     | –                | 1-30A           | –                 | –             | 2                |
| ED22-460/1               | 1     | 1                | –               | 2-15A             | 1-25A         | 2                |
| ED23-230/1               | 1     | 1                | –               | 2-25A             | –             | 2                |
| ED23-230/3               | 1     | 1                | –               | 2-25A             | –             | 2                |
| ED30-230/1               | 1     | –                | 1-30A           | –                 | –             | 3                |
| ED32-460/1               | 1     | 1                | –               | 3-10A             | 1-25A         | 3                |
| ED33-230/1               | 1     | 1                | –               | 3-16A             | –             | 3                |
| ED34-460/1               | 1     | 1                | –               | 3-16A             | 1-25A         | 3                |
| ED35-230/1               | 1     | 1                | –               | 3-33A             | –             | 3                |
| ED35-230/3               | 1     | 1                | –               | 3-33A             | –             | 3                |

Electric defrost kits consist of components that are necessary to control the defrost cycle. The kits are available as a factory installed option when ordered with a condensing unit. Not all Ed-Kits are available for all condensing unit models. The contents of each kit is described below, along with the function of each component.

**Timer:** Initiates the defrost cycle. Also used as a override protection for defrost termination.

**Auxiliary Switch:** It's mounted on the compressor contactor and prevents the defrost contactor from operating whenever the compressor is energized.

**Block-Out Relay:** Serves the same function as auxiliary switch. Used when defrost contactor is not required (lower wattage single phase only).

**Defrost Contactor:** Carries amperage load for heaters.

**Fan Contactor:** Used with 460V motors or when 230V motors are wired 3 phase.

**Sequencing Relays:** Provides interconnection of multiple unit coolers on a single system so that each unit cooler is allowed to individually terminate defrost on temperature.

– Not available.

<sup>1</sup> For use with 2 evaporators , 1/2 through 3 HP Next-Gen MiniCon systems ONLY! ED213 is not large enough for use with six-fan evaporators.



# NEXT-GEN ALL-TEMP

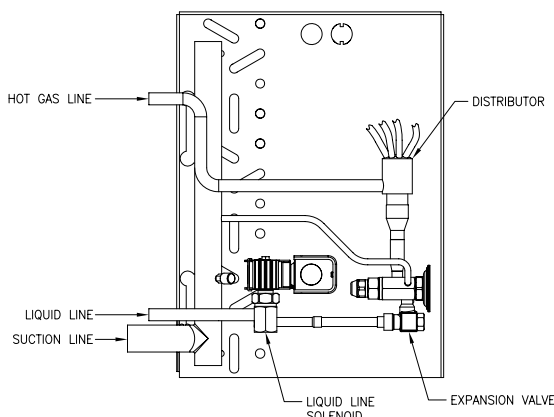
## Performance and Electrical Data - Hot Gas Defrost Models - 6 FPI

| Hot Gas<br>3-Pipe<br>Model<br>Number | Hot Gas<br>Reverse<br>Cycle 2-Pipe<br>Model<br>Number | BTUH Capacity<br>@ -20°F S.T. &<br>10°F TD <sup>1</sup> |                              | CFM   | No.<br>of<br>Fans | Total Fan Motor AMPS - 1 Phase |              |            |              |      | MCA  | MOPD |
|--------------------------------------|---|---|------------------------------|-------|-------------------|--------------------------------|--------------|------------|--------------|------|------|------|
|                                      |   | R404A/<br>CO <sub>2</sub> DX                            | R407A/<br>R448A/<br>R449A/B^ |       |                   | EC Motors <sup>†</sup>         |              | PSC Motors |              |      |      |      |
|                                      |   |   |                              |       |                   | 115V                           | 208-<br>230V | 115V       | 208-<br>230V | 460V |      |      |
| RL6H035***                           | RL6G035***  | 3,500   | 4,000                        | 800   | 1                 | 0.8                            | 0.5          | 0.8        | 0.5          | 0.4  | 15.0 | 20   |
| RL6H042***                           | RL6G042***  | 4,200   | 4,900                        | 785   | 1                 | 0.8                            | 0.5          | 0.8        | 0.5          | 0.4  |      |      |
| RL6H049***                           | RL6G049***  | 4,900   | 5,600                        | 775   | 1                 | 0.8                            | 0.5          | 0.8        | 0.5          | 0.4  |      |      |
| RL6H066***                           | RL6G066***  | 6,600   | 7,600                        | 1,600 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  | 15.0 | 20   |
| RL6H077***                           | RL6G077***  | 7,700   | 8,800                        | 1,570 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  |      |      |
| RL6H090***                           | RL6G090***  | 9,000   | 10,600                       | 1,550 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  |      |      |
| RL6H105***                           | RL6G105***  | 10,500  | 12,400                       | 1,550 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  | 15.0 | 20   |
| RL6H121***                           | RL6G121***  | 12,100  | 14,200                       | 2,355 | 3                 | 2.4                            | 1.5          | 2.4        | 1.5          | 1.2  |      |      |
| RL6H142***                           | RL6G142***  | 14,200  | 16,600                       | 2,325 | 3                 | 2.4                            | 1.5          | 2.4        | 1.5          | 1.2  |      |      |
| RL6H162***                           | RL6G162***  | 16,200  | 18,700                       | 3,140 | 4                 | 3.2                            | 2.0          | 3.2        | 2.0          | 1.6  | 15.0 | 20   |
| RL6H182***                           | RL6G182***  | 18,200  | 21,000                       | 3,100 | 4                 | 3.2                            | 2.0          | 3.2        | 2.0          | 1.6  |      |      |
| RL6H200***                           | RL6G200***  | 20,000  | 22,800                       | 3,925 | 5                 | 4.0                            | 2.5          | 4.0        | 2.5          | 2.0  |      |      |
| RL6H244***                           | RL6G244***  | 24,400  | 27,900                       | 4,710 | 6                 | 4.8                            | 3.0          | 4.8        | 3.0          | 2.4  | 15.0 | 20   |
| RL6H281***                           | RL6G281***  | 28,100  | 33,000                       | 4,650 | 6                 | 4.8                            | 3.0          | 4.8        | 3.0          | 2.4  |      |      |

| Hot Gas 3-Pipe Model Number | Hot Gas Reverse Cycle 2-Pipe Model Number | Drain Pan Heater Amps |      |      | Drain Pan Heater Watts |
|-----------------------------|---|-----------------------|------|------|------------------------|
|                             |   | 115V                  | 230V | 460V |                        |
|                             |   | 1PH                   | 1PH  | 1PH  |                        |
| RL6H035***                  | RL6G035***                                | 3.1                   | 1.7  | 0.9  | 375                    |
| RL6H042***                  | RL6G042***                                | 3.1                   | 1.7  | 0.9  | 375                    |
| RL6H049***                  | RL6G049***                                | 3.1                   | 1.7  | 0.9  | 375                    |
| RL6H066***                  | RL6G066***                                | 6.3                   | 3.3  | 1.7  | 750                    |
| RL6H077***                  | RL6G077***                                | 6.3                   | 3.3  | 1.7  | 750                    |
| RL6H090***                  | RL6G090***                                | 6.3                   | 3.3  | 1.7  | 750                    |
| RL6H105***                  | RL6G105***                                | 6.3                   | 3.3  | 1.7  | 750                    |
| RL6H121***                  | RL6G121***                                | 9.3                   | 4.8  | 2.4  | 1,100                  |
| RL6H142***                  | RL6G142***                                | 9.3                   | 4.8  | 2.4  | 1,100                  |
| RL6H162***                  | RL6G162***                                | 12.3                  | 6.4  | 3.2  | 1,475                  |
| RL6H182***                  | RL6G182***                                | 12.3                  | 6.4  | 3.2  | 1,475                  |
| RL6H200***                  | RL6G200***                                | 15.4                  | 8.1  | 4.0  | 1,850                  |
| RL6H244***                  | RL6G244***                                | 18.5                  | 9.7  | 4.9  | 2,225                  |
| RL6H281***                  | RL6G281***                                | 18.5                  | 9.7  | 4.9  | 2,225                  |

### Hot Gas 3-Pipe Model

The system uses 3 pipes — 1 for liquid line, 1 for suction line and 1 for hot gas. The hot gas is taken from the discharge line, between the compressor and the condenser, through a hot-gas solenoid valve to the distributor tee then through the coil.



| <sup>1</sup> Capacity Correction for Electric and Hot Gas Defrost Evaporators |      |       |        |       |        |
|---|------|-------|--------|-------|--------|
| S.S.T. (Dew)  | 20°F | 0°F   | -10°F  | -20°F | -30°F  |
| Multiply Capacity by:   | 1.15 | 1.075 | 1.0375 | 1     | 0.9625 |

Use EC motors for 50 Hz operation.

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

<sup>^</sup> Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.

<sup>†</sup> These Electronically Commutated (EC) Motors are not available for 460V. EC Motors can be field or factory wired for dual-speed operation. Dual-speed EC motors are compliant with California Title 24 regulations.

**Energy Independence and Security Act of 2007** specifies that walk-in coolers and freezers under 3,000 square feet that are manufactured after January 1, 2009 shall have evaporators with EC motors when they are single phase, less than 460 volt and less than 1 HP.

# LOW PROFILE UNIT COOLER

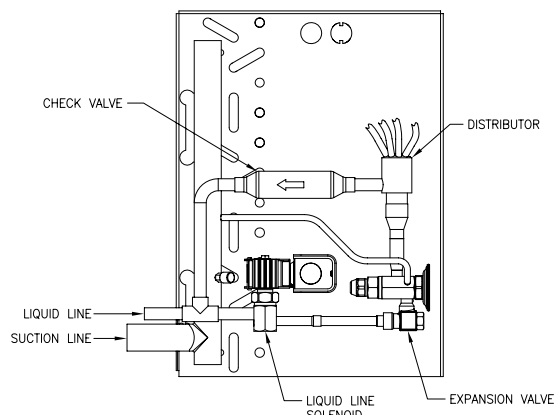
## Performance and Electrical Data - Hot Gas Defrost Models - 4 FPI

| Hot Gas<br>3-Pipe<br>Model<br>Number | Hot Gas<br>Reverse<br>Cycle 2-Pipe<br>Model<br>Number | BTUH Capacity @<br>-20°F S.T. & 10°F<br>TD¹ |                              | CFM   | No.<br>of<br>Fans | Total Fan Motor AMPS - 1 Phase |              |            |              |      | MCA  | MOPD |
|--------------------------------------|---|---|------------------------------|-------|-------------------|--------------------------------|--------------|------------|--------------|------|------|------|
|                                      |   | R404A/<br>CO₂ DX                            | R407A/<br>R448A/<br>R449A/B^ |       |                   | EC Motors†                     |              | PSC Motors |              |      |      |      |
|                                      |   |   |                              |       |                   | 115V                           | 208-<br>230V | 115V       | 208-<br>230V | 460V |      |      |
| RL4H027***                           | RL4G027***  | 2,700                                       | 3,100                        | 800   | 1                 | 0.8                            | 0.5          | 0.8        | 0.5          | 0.4  | 15.0 | 20.0 |
| RL4H032***                           | RL4G032***  | 3,200                                       | 3,800                        | 785   | 1                 | 0.8                            | 0.5          | 0.8        | 0.5          | 0.4  |      |      |
| RL4H038***                           | RL4G038***  | 3,800                                       | 4,400                        | 775   | 1                 | 0.8                            | 0.5          | 0.8        | 0.5          | 0.4  |      |      |
| RL4H051***                           | RL4G051***  | 5,100                                       | 5,900                        | 1,600 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  | 15.0 | 20.0 |
| RL4H064***                           | RL4G064***  | 6,400                                       | 7,300                        | 1,570 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  |      |      |
| RL4H080***                           | RL4G080***  | 8,000                                       | 9,500                        | 1,550 | 2                 | 1.6                            | 1.0          | 1.6        | 1.0          | 0.8  |      |      |
| RL4H094***                           | RL4G094***  | 9,400                                       | 11,000                       | 2,355 | 3                 | 2.4                            | 1.5          | 2.4        | 1.5          | 1.2  | 15.0 | 20.0 |
| RL4H110***                           | RL4G110***  | 11,000                                      | 12,800                       | 2,325 | 3                 | 2.4                            | 1.5          | 2.4        | 1.5          | 1.2  |      |      |
| RL4H125***                           | RL4G125***  | 12,500                                      | 14,400                       | 3,140 | 4                 | 3.2                            | 2.0          | 3.2        | 2.0          | 1.6  |      |      |
| RL4H141***                           | RL4G141***  | 14,100                                      | 16,300                       | 3,100 | 4                 | 3.2                            | 2.0          | 3.2        | 2.0          | 1.6  | 15.0 | 20.0 |
| RL4H155***                           | RL4G155***  | 15,500                                      | 17,700                       | 3,925 | 5                 | 4.0                            | 2.5          | 4.0        | 2.5          | 2.0  |      |      |
| RL4H195***                           | RL4G195***  | 19,500                                      | 22,300                       | 4,710 | 6                 | 4.8                            | 3.0          | 4.8        | 3.0          | 2.4  |      |      |
| RL4H230***                           | RL4G230***  | 23,000                                      | 27,000                       | 4,650 | 6                 | 4.8                            | 3.0          | 4.8        | 3.0          | 2.4  |      |      |

| Hot Gas<br>3-Pipe<br>Model<br>Number | Hot Gas<br>Reverse<br>Cycle 2-Pipe<br>Model<br>Number | Drain Pan<br>Heater Amps |      |      | Drain<br>Pan<br>Heater<br>Watts |
|--------------------------------------|---|--------------------------|------|------|---------------------------------|
|                                      |   | 115V                     | 230V | 460V |                                 |
|                                      |   | 1PH                      | 1PH  | 1PH  |                                 |
| RL4H027***                           | RL4G027***  | 3.1                      | 1.7  | 0.9  | 375                             |
| RL4H032***                           | RL4G032***  | 3.1                      | 1.7  | 0.9  | 375                             |
| RL4H038***                           | RL4G038***  | 3.1                      | 1.7  | 0.9  | 375                             |
| RL4H051***                           | RL4G051***  | 6.3                      | 3.3  | 1.7  | 750                             |
| RL4H064***                           | RL4G064***  | 6.3                      | 3.3  | 1.7  | 750                             |
| RL4H080***                           | RL4G080***  | 6.3                      | 3.3  | 1.7  | 750                             |
| RL4H094***                           | RL4G094***  | 9.3                      | 4.8  | 2.4  | 1,100                           |
| RL4H110***                           | RL4G110***  | 9.3                      | 4.8  | 2.4  | 1,100                           |
| RL4H125***                           | RL4G125***  | 12.3                     | 6.4  | 3.2  | 1,475                           |
| RL4H141***                           | RL4G141***  | 12.3                     | 6.4  | 3.2  | 1,475                           |
| RL4H155***                           | RL4G155***  | 15.4                     | 8.1  | 4.0  | 1,850                           |
| RL4H195***                           | RL4G195***  | 18.5                     | 9.7  | 4.9  | 2,225                           |
| RL4H230***                           | RL4G230***  | 18.5                     | 9.7  | 4.9  | 2,225                           |

### Hot Gas Reverse Cycle 2-Pipe Model

A changeover valve is located in the discharge suction line of the compressor, so that when defrost is required, the valve changes over from the normal refrigeration flow so that the discharged gas flows into the suction connection and bypasses TX valve.



### <sup>1</sup> Capacity Correction for Electric and Hot Gas Defrost Evaporators

| S.S.T. (Dew)          | 20°F | 0°F   | -10°F  | -20°F | -30°F  |
|-----------------------|------|-------|--------|-------|--------|
| Multiply Capacity by: | 1.15 | 1.075 | 1.0375 | 1     | 0.9625 |

Use EC motors for 50 Hz operation.

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

<sup>A</sup> Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.

<sup>†</sup> These Electronically Commutated (EC) Motors are not available for 460V. EC Motors can be field or factory wired for dual-speed operation. Dual-speed EC motors are compliant with California Title 24 regulations.

**Energy Independence and Security Act of 2007** specifies that walk-in coolers and freezers under 3,000 square feet that are manufactured after January 1, 2009 shall have evaporators with EC motors when they are single phase, less than 460 volt and less than 1 HP.

# NEXT-GEN ALL-TEMP

## Distributor Nozzle and Expansion Valves - Air Defrost Models

| Model<br>Number | Part Numbers       |       |                  |       |                 |       | No.<br>of<br>Circuits |
|-----------------|--------------------|-------|------------------|-------|-----------------|-------|-----------------------|
|                 | Nozzle @ Liq.Temp. |       | TXV^ @ Liq.Temp. |       | EEV @ Liq.Temp. |       |                       |
|                 | 50°F               | 100°F | 50°F             | 100°F | 50°F            | 100°F |                       |

### R404A

|          |            |           |           |             |            |        |        |   |
|----------|------------|-----------|-----------|-------------|------------|--------|--------|---|
| 6<br>FPI | RL6A041*** | –         | –         | SBFSE-AAA-C | SBFSE-AA-C | SER-AA | SER-AA | 1 |
|          | RL6A052*** | –         | –         | SBFSE-AA-C  | SBFSE-AA-C | SER-AA | SER-A  | 1 |
|          | RL6A066*** | L, #1/4   | L, #3/4   | SBFSE-AA-C  | SBFSE-A-C  | SER-A  | SER-A  | 2 |
|          | RL6A073*** | L, #1/4   | L, #3/4   | SBFSE-AA-C  | SBFSE-A-C  | SER-A  | SER-A  | 2 |
|          | RL6A094*** | L, #1/4   | L, #1     | SBFSE-A-C   | SBFSE-A-C  | SER-A  | SER-B  | 2 |
|          | RL6A117*** | L, #1/3   | L, #1-1/2 | SBFSE-A-C   | SBFSE-A-C  | SER-A  | SER-B  | 3 |
|          | RL6A130*** | L, #1/2   | L, #1-1/2 | SBFSE-A-C   | SBFSE-B-C  | SER-B  | SER-B  | 3 |
|          | RL6A141*** | L, #1/2   | L, #1-1/2 | SBFSE-A-C   | SBFSE-B-C  | SER-B  | SER-B  | 4 |
|          | RL6A161*** | L, #1/2   | L, #1-1/2 | SBFSE-A-C   | SBFSE-B-C  | SER-B  | SER-C  | 3 |
|          | RL6A181*** | L, #1/2   | L, #2     | SBFSE-B-C   | SBFSE-B-C  | SER-B  | SER-C  | 4 |
|          | RL6A195*** | L, #3/4   | L, #2     | SBFSE-B-C   | SBFSE-B-C  | SER-B  | SER-C  | 4 |
|          | RL6A235*** | L, #3/4   | L, #2-1/2 | SBFSE-B-C   | SBFSE-C-C  | SER-C  | SER-C  | 6 |
|          | RL6A260*** | L, #3/4   | L, #2-1/2 | SBFSE-B-C   | SBFSE-C-C  | SER-C  | SER-C  | 6 |
|          | RL6A295*** | L, #1     | L, #3     | SBFSE-B-C   | SBFSE-C-C  | SER-C  | SER-C  | 8 |
|          | RL6A330*** | L, #1     | L, #4     | SBFSE-C-C   | EBSS-6-C   | SER-C  | SER-C  | 7 |
|          | RL6A390*** | L, #1-1/2 | L, #4     | SBFSE-C-C   | EBSS-6-C   | SER-C  | SER-C  | 8 |

### R407A/ R448A/ R449A/B†

|          |            |           |           |            |            |        |        |   |
|----------|------------|-----------|-----------|------------|------------|--------|--------|---|
| 6<br>FPI | RL6A041*** | –         | –         | SBFDE-AA-C | SBFDE-AA-C | SER-AA | SER-AA | 1 |
|          | RL6A052*** | –         | –         | SBFDE-AA-C | SBFDE-AA-C | SER-AA | SER-AA | 1 |
|          | RL6A066*** | L, #1/4   | L, #3/4   | SBFDE-AA-C | SBFDE-AA-C | SER-A  | SER-A  | 2 |
|          | RL6A073*** | L, #1/4   | L, #3/4   | SBFDE-AA-C | SBFDE-AA-C | SER-A  | SER-A  | 2 |
|          | RL6A094*** | L, #1/3   | L, #1     | SBFDE-AA-C | SBFDE-A-C  | SER-A  | SER-A  | 2 |
|          | RL6A117*** | L, #1/2   | L, #1-1/2 | SBFDE-A-C  | SBFDE-A-C  | SER-A  | SER-B  | 3 |
|          | RL6A130*** | L, #1/2   | L, #1-1/2 | SBFDE-A-C  | SBFDE-A-C  | SER-B  | SER-B  | 3 |
|          | RL6A141*** | L, #1/2   | L, #1-1/2 | SBFDE-A-C  | SBFDE-A-C  | SER-B  | SER-B  | 4 |
|          | RL6A161*** | L, #3/4   | L, #1-1/2 | SBFDE-A-C  | SBFDE-B-C  | SER-B  | SER-B  | 3 |
|          | RL6A181*** | L, #3/4   | L, #2     | SBFDE-A-C  | SBFDE-B-C  | SER-B  | SER-B  | 4 |
|          | RL6A195*** | L, #3/4   | L, #2     | SBFDE-A-C  | SBFDE-B-C  | SER-B  | SER-B  | 4 |
|          | RL6A235*** | L, #1     | L, #2-1/2 | SBFDE-B-C  | SBFDE-B-C  | SER-B  | SER-C  | 6 |
|          | RL6A260*** | L, #1     | L, #2-1/2 | SBFDE-B-C  | SBFDE-C-C  | SER-C  | SER-C  | 6 |
|          | RL6A295*** | L, #1-1/2 | L, #3     | SBFDE-B-C  | SBFDE-C-C  | SER-C  | SER-C  | 8 |
|          | RL6A330*** | L, #1-1/2 | L, #3     | SBFDE-B-C  | SBFDE-C-C  | SER-C  | SER-C  | 7 |
|          | RL6A390*** | L, #1-1/2 | L, #4     | SBFDE-C-C  | SBFDE-C-C  | SER-C  | SER-C  | 8 |

Distributor lines are 3/16" diameter and 14" long. Distributor connection size is 1/2" for all air defrost models.

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

– Single feed circuit coils do not get a distributor/nozzle.

<sup>^</sup> TXV selections are based on +25°F suction temp., 8°F to 12°F evaporator TD. Contact factory for operating conditions outside of this range.

† SBFDE expansion valves are compatible with R407A, R448A and R449A/B. For other valves, follow manufacturers selection guidelines.

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



# LOW PROFILE UNIT COOLER

## Distributor Nozzle and Expansion Valves - Electric Defrost Models

| Model<br>Number        |            | Part Numbers        |            |                   |             |                  |        | No.<br>of<br>Circuits |
|------------------------|------------|---------------------|------------|-------------------|-------------|------------------|--------|-----------------------|
|                        |            | Nozzle @ Liq. Temp. |            | TXV^ @ Liq. Temp. |             | EEV @ Liq. Temp. |        |                       |
|                        |            | 50°F                | 100°F      | 50°F              | 100°F       | 50°F             | 100°F  |                       |
| R404A                  |            |                     |            |                   |             |                  |        |                       |
| 6<br>FPI               | RL6E035*** | —                   | —          | SBFSE-AAA-ZP      | SBFSE-AA-ZP | SER-AA           | SER-AA | 1                     |
|                        | RL6E042*** | L, #1/3             | L, #3/4    | SBFSE-AA-ZP       | SBFSE-AA-ZP | SER-AA           | SER-AA | 2                     |
|                        | RL6E049*** | L, #1/2             | L, #1      | SBFSE-AA-ZP       | SBFSE-A-ZP  | SER-AA           | SER-A  | 2                     |
|                        | RL6E066*** | L, #1/2             | L, #1      | SBFSE-AA-ZP       | SBFSE-A-ZP  | SER-A            | SER-A  | 2                     |
|                        | RL6E077*** | L, #3/4             | L, #1-1/2  | SBFSE-A-ZP        | SBFSE-A-ZP  | SER-A            | SER-A  | 3                     |
|                        | RL6E090*** | L, #3/4             | L, #1-1/2  | SBFSE-A-ZP        | SBFSE-A-ZP  | SER-A            | SER-A  | 5                     |
|                        | RL6E105*** | L, #1               | L, #2      | SBFSE-A-ZP        | SBFSE-B-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL6E121*** | L, #1               | L, #2      | SBFSE-A-ZP        | SBFSE-B-ZP  | SER-B            | SER-B  | 6                     |
|                        | RL6E142*** | L, #1-1/2           | L, #2-1/2  | SBFSE-A-ZP        | SBFSE-B-ZP  | SER-B            | SER-B  | 6                     |
|                        | RL6E162*** | L, #1-1/2           | L, #2-1/2  | SBFSE-B-ZP        | SBFSE-C-ZP  | SER-B            | SER-B  | 6                     |
| RL6E182***             | L, #1-1/2  | L, #3               | SBFSE-B-ZP | SBFSE-C-ZP        | SER-B       | SER-C            | 6      |                       |
| RL6E200***             | L, #1-1/2  | L, #3               | SBFSE-B-ZP | SBFSE-C-ZP        | SER-B       | SER-C            | 6      |                       |
| RL6E244***             | L, #2      | L, #4               | SBFSE-C-ZP | EBSS-6-ZP         | SER-C       | SER-C            | 9      |                       |
| RL6E281***             | G, #2-1/2  | G, #5               | SBFSE-C-ZP | EBSS-6-ZP         | SER-C       | SER-C            | 12     |                       |
| 4<br>FPI               | RL4E027*** | —                   | —          | SBFSE-AAA-ZP      | SBFSE-AA-ZP | SER-AA           | SER-AA | 1                     |
|                        | RL4E032*** | —                   | —          | SBFSE-AA-ZP       | SBFSE-AA-ZP | SER-AA           | SER-AA | 1                     |
|                        | RL4E038*** | L, #1/3             | L, #3/4    | SBFSE-AA-ZP       | SBFSE-AA-ZP | SER-AA           | SER-AA | 2                     |
|                        | RL4E051*** | L, #1/2             | L, #1      | SBFSE-AA-ZP       | SBFSE-A-ZP  | SER-AA           | SER-A  | 2                     |
|                        | RL4E064*** | L, #1/2             | L, #1-1/2  | SBFSE-AA-ZP       | SBFSE-A-ZP  | SER-A            | SER-A  | 3                     |
|                        | RL4E080*** | L, #3/4             | L, #1-1/2  | SBFSE-A-ZP        | SBFSE-A-ZP  | SER-A            | SER-A  | 6                     |
|                        | RL4E094*** | L, #3/4             | L, #2      | SBFSE-A-ZP        | SBFSE-A-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL4E110*** | L, #1               | L, #2      | SBFSE-A-ZP        | SBFSE-B-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL4E125*** | L, #1               | L, #2-1/2  | SBFSE-A-ZP        | SBFSE-B-ZP  | SER-B            | SER-B  | 6                     |
|                        | RL4E141*** | L, #1               | L, #2-1/2  | SBFSE-A-ZP        | SBFSE-B-ZP  | SER-B            | SER-B  | 6                     |
| RL4E155***             | L, #1-1/2  | L, #2-1/2           | SBFSE-A-ZP | SBFSE-C-ZP        | SER-B       | SER-B            | 6      |                       |
| RL4E195***             | L, #2      | L, #4               | SBFSE-B-ZP | SBFSE-C-ZP        | SER-B       | SER-C            | 9      |                       |
| RL4E230***             | G, #2      | G, #4               | SBFSE-C-ZP | SBFSE-C-ZP        | SER-B       | SER-C            | 12     |                       |
| R407A/ R448A/ R449A/B† |            |                     |            |                   |             |                  |        |                       |
| 6<br>FPI               | RL6E035*** | —                   | —          | SBFDE-AA-ZP       | SBFDE-AA-ZP | SER-AA           | SER-AA | 1                     |
|                        | RL6E042*** | L, #1/3             | L, #3/4    | SBFDE-AA-ZP       | SBFDE-AA-ZP | SER-AA           | SER-AA | 2                     |
|                        | RL6E049*** | L, #1/3             | L, #3/4    | SBFDE-AA-ZP       | SBFDE-AA-ZP | SER-AA           | SER-AA | 2                     |
|                        | RL6E066*** | L, #1/2             | L, #1      | SBFDE-AA-ZP       | SBFDE-A-ZP  | SER-A            | SER-A  | 2                     |
|                        | RL6E077*** | L, #3/4             | L, #1      | SBFDE-A-ZP        | SBFDE-A-ZP  | SER-A            | SER-A  | 3                     |
|                        | RL6E090*** | L, #3/4             | L, #1-1/2  | SBFDE-A-ZP        | SBFDE-B-ZP  | SER-A            | SER-A  | 5                     |
|                        | RL6E105*** | L, #1               | L, #2      | SBFDE-A-ZP        | SBFDE-B-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL6E121*** | L, #1               | L, #2      | SBFDE-A-ZP        | SBFDE-B-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL6E142*** | L, #1-1/2           | L, #2      | SBFDE-B-ZP        | SBFDE-B-ZP  | SER-B            | SER-B  | 6                     |
|                        | RL6E162*** | L, #1-1/2           | L, #2-1/2  | SBFDE-B-ZP        | SBFDE-C-ZP  | SER-B            | SER-B  | 6                     |
| RL6E182***             | L, #1-1/2  | L, #2-1/2           | SBFDE-B-ZP | SBFDE-C-ZP        | SER-B       | SER-B            | 6      |                       |
| RL6E200***             | L, #1-1/2  | L, #3               | SBFDE-B-ZP | SBFDE-C-ZP        | SER-B       | SER-B            | 6      |                       |
| RL6E244***             | L, #2      | L, #4               | SBFDE-C-ZP | SBFDE-C-ZP        | SER-B       | SER-C            | 9      |                       |
| RL6E281***             | G, #2-1/2  | G, #4               | SBFDE-C-ZP | SBFDE-C-ZP        | SER-C       | SER-C            | 12     |                       |
| 4<br>FPI               | RL4E027*** | —                   | —          | SBFDE-AA-ZP       | SBFDE-AA-ZP | SER-AA           | SER-AA | 1                     |
|                        | RL4E032*** | —                   | —          | SBFDE-AA-ZP       | SBFDE-AA-ZP | SER-AA           | SER-AA | 1                     |
|                        | RL4E038*** | L, #1/3             | L, #3/4    | SBFDE-AA-ZP       | SBFDE-AA-ZP | SER-AA           | SER-AA | 2                     |
|                        | RL4E051*** | L, #1/2             | L, #3/4    | SBFDE-AA-ZP       | SBFDE-A-ZP  | SER-AA           | SER-AA | 2                     |
|                        | RL4E064*** | L, #1/2             | L, #1      | SBFDE-AA-ZP       | SBFDE-A-ZP  | SER-A            | SER-A  | 3                     |
|                        | RL4E080*** | L, #3/4             | L, #1-1/2  | SBFDE-A-ZP        | SBFDE-A-ZP  | SER-A            | SER-A  | 6                     |
|                        | RL4E094*** | L, #3/4             | L, #1-1/2  | SBFDE-A-ZP        | SBFDE-B-ZP  | SER-A            | SER-A  | 6                     |
|                        | RL4E110*** | L, #1               | L, #2      | SBFDE-A-ZP        | SBFDE-B-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL4E125*** | L, #1               | L, #2      | SBFDE-A-ZP        | SBFDE-B-ZP  | SER-A            | SER-B  | 6                     |
|                        | RL4E141*** | L, #1               | L, #2      | SBFDE-B-ZP        | SBFDE-B-ZP  | SER-B            | SER-B  | 6                     |
| RL4E155***             | L, #1-1/2  | L, #2-1/2           | SBFDE-B-ZP | SBFDE-B-ZP        | SER-B       | SER-B            | 6      |                       |
| RL4E195***             | L, #1-1/2  | L, #3               | SBFDE-B-ZP | SBFDE-C-ZP        | SER-B       | SER-B            | 9      |                       |
| RL4E230***             | G, #2      | G, #4               | SBFDE-B-ZP | SBFDE-C-ZP        | SER-B       | SER-C            | 12     |                       |

Distributor lines are 3/16" diameter and 14" long. Distributor connection size is 1/2" for electric defrost models with "L" nozzle and 7/8" for models with "G" nozzle.

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

– Single feed circuit coils do not get a distributor/nozzle.

<sup>^</sup> TXV selections are based on -20°F suction temp., 8°F to 12°F evaporator TD. Contact factory for operating conditions outside of this range.

Do not use pressure limiting TXVs when the condensing unit includes a CPR valve.

† SBFDE expansion valves are compatible with R407A, R448A and R449A/B. For other valves, follow manufacturers selection guidelines.

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

# NEXT-GEN ALL-TEMP

## Distributor Nozzle and Expansion Valves - Hot Gas Defrost Models

| Hot Gas<br>3-Pipe Model<br>Number |            | Hot Gas<br>Reverse Cycle<br>2-Pipe Model<br>Number |           | Part Numbers        |              |                   |        |                  |       | No.<br>of<br>Circuits |
|-----------------------------------|------------|--|-----------|---------------------|--------------|-------------------|--------|------------------|-------|-----------------------|
|                                   |            |  |           | Nozzle @ Liq. Temp. |              | TXV^ @ Liq. Temp. |        | EEV @ Liq. Temp. |       |                       |
|                                   |            |  |           | 50°F                | 100°F        | 50°F              | 100°F  | 50°F             | 100°F |                       |
| R404A                             |            |  |           |                     |              |                   |        |                  |       |                       |
| 6<br>FPI                          | RL6H035*** | RL6G035***   | —         | —                   | SBFSE-AAA-ZP | SBFSE-AA-ZP       | SER-AA | SER-AA           | 1     |                       |
|                                   | RL6H042*** | RL6G042***   | L, #1/3   | L, #3/4             | SBFSE-AA-ZP  | SBFSE-AA-ZP       | SER-AA | SER-AA           | 2     |                       |
|                                   | RL6H049*** | RL6G049***   | L, #1/2   | L, #1               | SBFSE-AA-ZP  | SBFSE-A-ZP        | SER-AA | SER-A            | 2     |                       |
|                                   | RL6H066*** | RL6G066***   | L, #3/4   | L, #1-1/2           | SBFSE-AA-ZP  | SBFSE-A-ZP        | SER-A  | SER-A            | 2     |                       |
|                                   | RL6H077*** | RL6G077***   | L, #3/4   | L, #1-1/2           | SBFSE-A-ZP   | SBFSE-A-ZP        | SER-A  | SER-A            | 3     |                       |
|                                   | RL6H090*** | RL6G090***   | L, #3/4   | L, #2               | SBFSE-A-ZP   | SBFSE-A-ZP        | SER-A  | SER-A            | 5     |                       |
|                                   | RL6H105*** | RL6G105***   | L, #1     | L, #2               | SBFSE-A-ZP   | SBFSE-B-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL6H121*** | RL6G121***   | L, #1     | L, #2-1/2           | SBFSE-A-ZP   | SBFSE-B-ZP        | SER-B  | SER-B            | 6     |                       |
|                                   | RL6H142*** | RL6G142***   | L, #1-1/2 | L, #2-1/2           | SBFSE-A-ZP   | SBFSE-B-ZP        | SER-B  | SER-B            | 6     |                       |
|                                   | RL6H162*** | RL6G162***   | L, #1-1/2 | L, #3               | SBFSE-B-ZP   | SBFSE-C-ZP        | SER-B  | SER-B            | 6     |                       |
| RL6H182***                        | RL6G182*** | L, #1-1/2  | L, #4     | SBFSE-B-ZP          | SBFSE-C-ZP   | SER-B             | SER-C  | 6                |       |                       |
| RL6H200***                        | RL6G200*** | L, #2  | L, #4     | SBFSE-B-ZP          | SBFSE-C-ZP   | SER-B             | SER-C  | 6                |       |                       |
| RL6H244***                        | RL6G244*** | E, #2  | E(R), #5  | SBFSE-C-ZP          | EBSSSE-6-ZP  | SER-C             | SER-C  | 9                |       |                       |
| RL6H281***                        | RL6G281*** | E, #2-1/2  | E(R), #5  | SBFSE-C-ZP          | EBSSSE-6-ZP  | SER-C             | SER-C  | 12               |       |                       |
| 4<br>FPI                          | RL4H027*** | RL4G027***   | —         | —                   | SBFSE-AAA-ZP | SBFSE-AA-ZP       | SER-AA | SER-AA           | 1     |                       |
|                                   | RL4H032*** | RL4G032***   | —         | —                   | SBFSE-AA-ZP  | SBFSE-AA-ZP       | SER-AA | SER-AA           | 1     |                       |
|                                   | RL4H038*** | RL4G038***   | L, #1/3   | L, #3/4             | SBFSE-AA-ZP  | SBFSE-AA-ZP       | SER-AA | SER-AA           | 2     |                       |
|                                   | RL4H051*** | RL4G051***   | L, #1/2   | L, #1               | SBFSE-AA-ZP  | SBFSE-A-ZP        | SER-AA | SER-A            | 2     |                       |
|                                   | RL4H064*** | RL4G064***   | L, #3/4   | L, #1-1/2           | SBFSE-AA-ZP  | SBFSE-A-ZP        | SER-A  | SER-A            | 3     |                       |
|                                   | RL4H080*** | RL4G080***   | L, #3/4   | L, #1-1/2           | SBFSE-A-ZP   | SBFSE-A-ZP        | SER-A  | SER-A            | 6     |                       |
|                                   | RL4H094*** | RL4G094***   | L, #3/4   | L, #2               | SBFSE-A-ZP   | SBFSE-A-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL4H110*** | RL4G110***   | L, #1     | L, #2               | SBFSE-A-ZP   | SBFSE-B-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL4H125*** | RL4G125***   | L, #1     | L, #2-1/2           | SBFSE-A-ZP   | SBFSE-B-ZP        | SER-B  | SER-B            | 6     |                       |
|                                   | RL4H141*** | RL4G141***   | L, #1-1/2 | L, #2-1/2           | SBFSE-A-ZP   | SBFSE-B-ZP        | SER-B  | SER-B            | 6     |                       |
| RL4H155***                        | RL4G155*** | L, #1-1/2  | L, #3     | SBFSE-A-ZP          | SBFSE-C-ZP   | SER-B             | SER-B  | 6                |       |                       |
| RL4H195***                        | RL4G195*** | E, #2  | E(R), #4  | SBFSE-B-ZP          | SBFSE-C-ZP   | SER-B             | SER-C  | 9                |       |                       |
| RL4H230***                        | RL4G230*** | E, #2  | E(R), #5  | SBFSE-B-ZP          | SBFSE-C-ZP   | SER-B             | SER-C  | 12               |       |                       |
| R407A/ R448A/ R449A/B†            |            |  |           |                     |              |                   |        |                  |       |                       |
| 6<br>FPI                          | RL6H035*** | RL6G035***   | —         | —                   | SBFDE-AA-ZP  | SBFDE-AA-ZP       | SER-AA | SER-AA           | 1     |                       |
|                                   | RL6H042*** | RL6G042***   | L, #1/3   | L, #3/4             | SBFDE-AA-ZP  | SBFDE-AA-ZP       | SER-AA | SER-AA           | 2     |                       |
|                                   | RL6H049*** | RL6G049***   | L, #1/2   | L, #3/4             | SBFDE-AA-ZP  | SBFDE-AA-ZP       | SER-AA | SER-AA           | 2     |                       |
|                                   | RL6H066*** | RL6G066***   | L, #1/2   | L, #1               | SBFDE-AA-ZP  | SBFDE-A-ZP        | SER-A  | SER-A            | 2     |                       |
|                                   | RL6H077*** | RL6G077***   | L, #3/4   | L, #1-1/2           | SBFDE-A-ZP   | SBFDE-A-ZP        | SER-A  | SER-A            | 3     |                       |
|                                   | RL6H090*** | RL6G090***   | L, #3/4   | L, #1-1/2           | SBFDE-A-ZP   | SBFDE-B-ZP        | SER-A  | SER-A            | 5     |                       |
|                                   | RL6H105*** | RL6G105***   | L, #1     | L, #2               | SBFDE-A-ZP   | SBFDE-B-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL6H121*** | RL6G121***   | L, #1     | L, #2               | SBFDE-A-ZP   | SBFDE-B-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL6H142*** | RL6G142***   | L, #1-1/2 | L, #2-1/2           | SBFDE-B-ZP   | SBFDE-B-ZP        | SER-B  | SER-B            | 6     |                       |
|                                   | RL6H162*** | RL6G162***   | L, #1-1/2 | L, #2-1/2           | SBFDE-B-ZP   | SBFDE-B-ZP        | SER-B  | SER-B            | 6     |                       |
| RL6H182***                        | RL6G182*** | L, #1-1/2  | L, #3     | SBFDE-B-ZP          | SBFDE-C-ZP   | SER-B             | SER-B  | 6                |       |                       |
| RL6H200***                        | RL6G200*** | L, #2  | L, #3     | SBFDE-B-ZP          | SBFDE-C-ZP   | SER-B             | SER-B  | 6                |       |                       |
| RL6H244***                        | RL6G244*** | E, #2  | E(R), #4  | SBFDE-C-ZP          | SBFDE-C-ZP   | SER-B             | SER-C  | 9                |       |                       |
| RL6H281***                        | RL6G281*** | E, #2-1/2  | E(R), #5  | SBFDE-C-ZP          | SBFDE-C-ZP   | SER-C             | SER-C  | 12               |       |                       |
| 4<br>FPI                          | RL4H027*** | RL4G027***   | —         | —                   | SBFDE-AA-ZP  | SBFDE-AA-ZP       | SER-AA | SER-AA           | 1     |                       |
|                                   | RL4H032*** | RL4G032***   | —         | —                   | SBFDE-AA-ZP  | SBFDE-AA-ZP       | SER-AA | SER-AA           | 1     |                       |
|                                   | RL4H038*** | RL4G038***   | L, #1/3   | L, #3/4             | SBFDE-AA-ZP  | SBFDE-AA-ZP       | SER-AA | SER-AA           | 2     |                       |
|                                   | RL4H051*** | RL4G051***   | L, #1/2   | L, #1               | SBFDE-AA-ZP  | SBFDE-A-ZP        | SER-AA | SER-AA           | 2     |                       |
|                                   | RL4H064*** | RL4G064***   | L, #1/2   | L, #1               | SBFDE-AA-ZP  | SBFDE-A-ZP        | SER-A  | SER-A            | 3     |                       |
|                                   | RL4H080*** | RL4G080***   | L, #3/4   | L, #1-1/2           | SBFDE-A-ZP   | SBFDE-A-ZP        | SER-A  | SER-A            | 6     |                       |
|                                   | RL4H094*** | RL4G094***   | L, #3/4   | L, #2               | SBFDE-A-ZP   | SBFDE-B-ZP        | SER-A  | SER-A            | 6     |                       |
|                                   | RL4H110*** | RL4G110***   | L, #1     | L, #2               | SBFDE-A-ZP   | SBFDE-B-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL4H125*** | RL4G125***   | L, #1     | L, #2               | SBFDE-A-ZP   | SBFDE-B-ZP        | SER-A  | SER-B            | 6     |                       |
|                                   | RL4H141*** | RL4G141***   | L, #1-1/2 | L, #2-1/2           | SBFDE-B-ZP   | SBFDE-B-ZP        | SER-B  | SER-B            | 6     |                       |
| RL4H155***                        | RL4G155*** | L, #1-1/2  | L, #2-1/2 | SBFDE-B-ZP          | SBFDE-B-ZP   | SER-B             | SER-B  | 6                |       |                       |
| RL4H195***                        | RL4G195*** | E, #1-1/2  | E(R), #3  | SBFDE-B-ZP          | SBFDE-C-ZP   | SER-B             | SER-B  | 9                |       |                       |
| RL4H230***                        | RL4G230*** | E, #2  | E(R), #4  | SBFDE-B-ZP          | SBFDE-C-ZP   | SER-B             | SER-C  | 12               |       |                       |

Distributor lines are 1/4" diameter and 14" long. Distributor connection size is 1/2" for all hot gas defrost models with "L" nozzle and 1-1/8" for models with "E" nozzle.

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

– Single feed circuit coils do not get a distributor/nozzle.

<sup>^</sup> TXV selections are based on -20°F suction temp., 8°F to 12°F evaporator TD. Contact factory for operating conditions outside of this range.

Do not use pressure limiting TXVs when the condensing unit includes a CPR valve.

† SBFDE expansion valves are compatible with R407A, R448A and R449A/B. For other valves, follow manufacturers selection guidelines.

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

# LOW PROFILE UNIT COOLER

## Specifications

| Models |          | TXV <sup>†</sup><br>Type | Refrigerant<br>Connections |                 |                     | No. of<br>Hanger<br>Slot<br>Locations | Dimensions (Inches) |                |                |   | Approx.<br>Ship<br>Wt.<br>(Lbs.) |
|--------|----------|--------------------------|----------------------------|-----------------|---------------------|---------------------------------------|---------------------|----------------|----------------|---|----------------------------------|
|        |          |                          | LIQ.<br>LINE <sup>^</sup>  | RL6A<br>SUCTION | RL*E/G/H<br>SUCTION |                                       | A <sup>1</sup>      | B <sup>1</sup> | C <sup>1</sup> | W |                                  |
| RL6A   | RL*E/G/H |                          |                            |                 |                     |                                       |                     |                |                |   |                                  |

### 6 FPI

|            |            |     |     |       |       |   |        |        |        |         |     |
|------------|------------|-----|-----|-------|-------|---|--------|--------|--------|---------|-----|
| RL6A041*** | RL6*035*** | EXT | 3/8 | 5/8   | 5/8   | 2 | 17-1/4 | –      | –      | 27-1/8  | 41  |
| RL6A052*** | RL6*042*** | EXT | 3/8 | 5/8   | 5/8   | 2 | 17-1/4 | –      | –      | 27-1/8  | 44  |
| RL6A066*** | RL6*049*** | EXT | 3/8 | 5/8   | 5/8   | 2 | 17-1/4 | –      | –      | 27-1/8  | 47  |
| RL6A073*** | RL6*066*** | EXT | 3/8 | 5/8   | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 52  |
| RL6A094*** | RL6*077*** | EXT | 3/8 | 5/8   | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 55  |
| RL6A117*** | RL6*090*** | EXT | 3/8 | 5/8   | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 58  |
| RL6A130*** | RL6*105*** | EXT | 3/8 | 5/8   | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 62  |
| RL6A141*** | –          | EXT | 3/8 | 5/8   | –     | 2 | 49-1/4 | –      | –      | 60-1/8  | 72  |
| RL6A161*** | RL6*121*** | EXT | 3/8 | 5/8   | 1-1/8 | 2 | 49-1/4 | –      | –      | 60-1/8  | 78  |
| RL6A181*** | RL6*142*** | EXT | 3/8 | 7/8   | 1-1/8 | 2 | 49-1/4 | –      | –      | 60-1/8  | 85  |
| RL6A195*** | –          | EXT | 3/8 | 7/8   | –     | 2 | 65-1/4 | –      | –      | 76-5/8  | 115 |
| RL6A235*** | RL6*162*** | EXT | 3/8 | 7/8   | 1-1/8 | 2 | 65-1/4 | –      | –      | 76-5/8  | 124 |
| RL6A260*** | RL6*182*** | EXT | 3/8 | 7/8   | 1-1/8 | 2 | 65-1/4 | –      | –      | 76-5/8  | 147 |
| –          | RL6*200*** | EXT | 3/8 | –     | 1-1/8 | 3 | 81-1/4 | 32-5/8 | 48-5/8 | 93-1/8  | 195 |
| RL6A295*** | –          | EXT | 3/8 | 1-1/8 | –     | 3 | 81-1/4 | 32-5/8 | 48-5/8 | 93-1/8  | 218 |
| –          | RL6*244*** | EXT | 3/8 | –     | 1-1/8 | 3 | 97-1/4 | 48-5/8 | 48-5/8 | 109-5/8 | 238 |
| RL6A330*** | –          | EXT | 3/8 | 1-1/8 | –     | 3 | 97-1/4 | 48-5/8 | 48-5/8 | 109-5/8 | 257 |
| RL6A390*** | RL6*281*** | EXT | 3/8 | 1-1/8 | 1-1/8 | 3 | 97-1/4 | 48-5/8 | 48-5/8 | 109-5/8 | 262 |

### 4 FPI

|   |            |     |     |   |       |   |        |        |        |         |     |
|---|------------|-----|-----|---|-------|---|--------|--------|--------|---------|-----|
| – | RL4*027*** | EXT | 3/8 | – | 5/8   | 2 | 17-1/4 | –      | –      | 27-1/8  | 40  |
| – | RL4*032*** | EXT | 3/8 | – | 5/8   | 2 | 17-1/4 | –      | –      | 27-1/8  | 42  |
| – | RL4*038*** | EXT | 3/8 | – | 5/8   | 2 | 17-1/4 | –      | –      | 27-1/8  | 46  |
| – | RL4*051*** | EXT | 3/8 | – | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 50  |
| – | RL4*064*** | EXT | 3/8 | – | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 52  |
| – | RL4*080*** | EXT | 3/8 | – | 7/8   | 2 | 33-1/4 | –      | –      | 43-5/8  | 55  |
| – | RL4*094*** | EXT | 3/8 | – | 1-1/8 | 2 | 49-1/4 | –      | –      | 60-1/8  | 79  |
| – | RL4*110*** | EXT | 3/8 | – | 1-1/8 | 2 | 49-1/4 | –      | –      | 60-1/8  | 84  |
| – | RL4*125*** | EXT | 3/8 | – | 1-1/8 | 2 | 65-1/4 | –      | –      | 76-5/8  | 124 |
| – | RL4*141*** | EXT | 3/8 | – | 1-1/8 | 2 | 65-1/4 | –      | –      | 76-5/8  | 144 |
| – | RL4*155*** | EXT | 3/8 | – | 1-1/8 | 3 | 81-1/4 | 32-5/8 | 48-5/8 | 93-1/8  | 191 |
| – | RL4*195*** | EXT | 3/8 | – | 1-1/8 | 3 | 97-1/4 | 48-5/8 | 48-5/8 | 109-5/8 | 257 |
| – | RL4*230*** | EXT | 3/8 | – | 1-1/8 | 3 | 97-1/4 | 48-5/8 | 48-5/8 | 109-5/8 | 262 |

\* Each asterisk represents a variable character based on defrost, voltage, motor and vintage ordered. See page 4 for nomenclature.

– Not available.

<sup>†</sup> Externally equalized.

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

<sup>1</sup> Dimensions listed are the distance between hanger slots. Hanger slots are 3/4" deep x 1/2" wide.

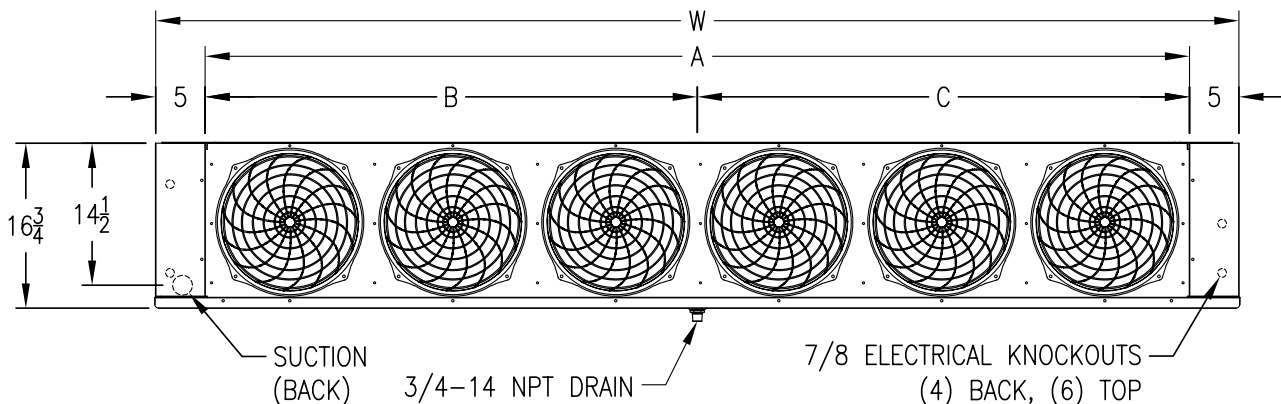
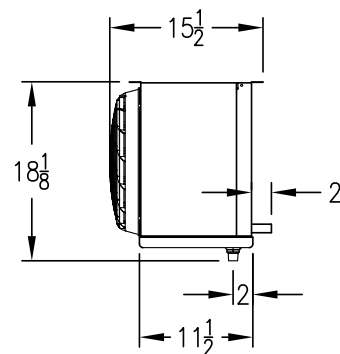
# NEXT-GEN ALL-TEMP

## Physical Dimensions

### Installation Notes:

- (1) Install 12" away from back wall.
- (2) Drain connection is located in the center/rear of the drain pan.
- (3) Standard refrigerant connections are located at the left rear (facing air discharge).

All dimensions are in inches.



**NOTE:** Refrigerant and electrical connection locations have been changed for the Next-Gen All-Temp design. Standard connections are now opposite of the legacy All-Temp models.



**Russell's Next-Gen All-Temp Low Profile Unit Cooler can be used in combination with Next-Gen MiniCon Condensing Units to provide complete refrigeration solutions for small to medium walk-ins**

*Due to continuing product development, specifications are subject to change without notice.*

