



# A1/A2L DUAL-RATED NEXT-GEN ALL TEMP LOW PROFILE UNIT COOLER



**Walk-Ins: Small to Medium Cooler  
and Freezer Applications**

**Air Defrost**

**4,100 to 37,500 BTUH**

**Electric Defrost**

**4,200 to 23,700 BTUH**



### FEATURES

Introducing the Dual-Rated All Temp Low Profile Unit Cooler – engineered for flexibility in an evolving regulatory landscape. Our Dual-Rated All Temp evaporators are designed to seamlessly accommodate both A1 and A2L\* refrigerant classes with a single coil solution. No matter how the standards shift, we've got you covered with one unit that delivers performance, reliability, and peace of mind. Simplify conversions, stay ahead of regulations, and keep your operations running efficiently – all with one versatile design.

### SIZES

There are a wide array of sizes available with capacities ranging from 4,100 to 37,500 BTUH for Air Defrost and 4,200 to 23,700 BTUH for Electric Defrost at a 10° TD. One through five fan models are available with air flow spanning a range of 775 to 3,925 CFM.

### HOUSING

The lightweight yet durable embossed aluminum casing is designed to prevent short cycling of the discharge air with baffled fan sections. These units are compliant with NSF requirements and designed to mount flush to the ceiling. The top panel features 1/2" wide slotted mounting points for easy installation. The removable drain fitting is located at the bottom of the drain pan for easy field connection and can be replaced without changing the entire drain pan. The end panels can be easily slid out from the front of the unit, providing convenient access to the spacious electrical and piping compartments from the front or side for easy maintenance.

### 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 6 fins per inch (FPI). Sweat connections are standard on all models.

### MOTORS

Standard models feature highly efficient Dual Speed Electronically Commutated (EC) motors. Available for 115V or 208-230V and are compliant with California Title 24 regulations. All motors include thermal overload protection.

### FANS AND FAN GUARDS

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.

### REFRIGERANTS

The Dual-Rated All Temp Low Profile Unit Coolers are engineered for compatibility with both A1 and A2L\* refrigerant classifications. A1 refrigerants include R404A, R407A, R448A, and R449A/B while A2L\* refrigerants include R454A, R454C, and R455A. Each unit features liquid and suction connections located at the piping end, providing convenient access for mounting expansion valves.

### ELECTRICAL

Available for 115V (Air Defrost) and 208-230V (Electric Defrost). 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.

\*Conversion kits are sold separately and are required for A2L applications.

## AIR DEFROST

Air Defrost models 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 6 FPI models 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.

An additional lower heater is installed inside the drain pan for fast, reliable drainage. A defrost termination fan delay thermostat 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.

## DUAL-RATED KIT NEXT-GEN ALL TEMP LOW PROFILE UNIT COOLER

The A1/A2L Conversion Kit provides a reliable upgrade for unit coolers, ensuring performance with next-generation refrigerants while satisfying A2L specific requirements. Designed with integrated leak detection, this kit enhances safety and reliability.

Its service focused design is optimized for installation and it includes all the necessary components for a smooth and efficient conversion.

\*Conversion kits are sold separately and are required for A2L applications.

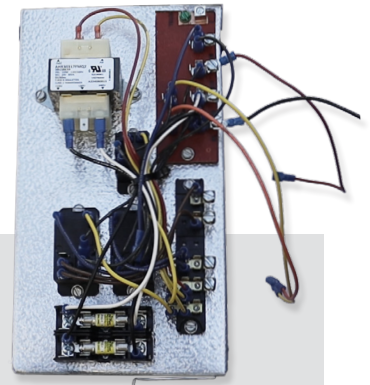
## MODEL NOMENCLATURE

| R           | D                                                                         | L            | 6                   | A                       | 050              | A                                | D                 | A       |
|-------------|---------------------------------------------------------------------------|--------------|---------------------|-------------------------|------------------|----------------------------------|-------------------|---------|
| Brand       | Refrigerant Class                                                         | Connections  | Fins per Inch (FPI) | Defrost Type            | BTUH in Hundreds | Unit Voltage                     | Motor Type        | Vintage |
| R = Russell | D = Dual-Rated A1/A2L (R404A, R407A, R448A, R449A/B, R454A, R454C, R455A) | L = Standard | 6 FPI               | A = Air<br>E = Electric | XXX              | A = 115/1/60<br>D = 208-230/1/60 | D = Dual Speed EC | A       |

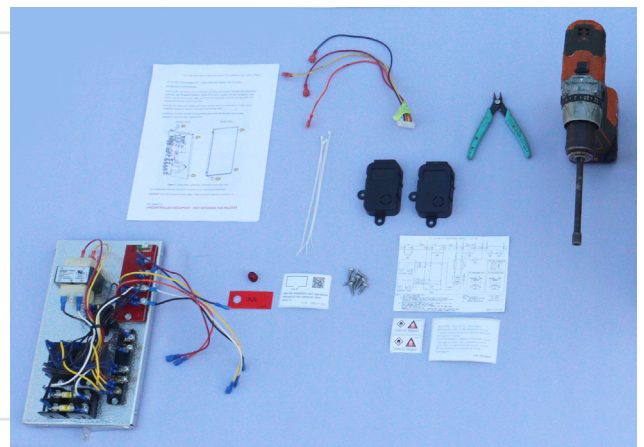
# A2L READY, MADE SIMPLE QUICK CONVERSION KIT STEP-BY-STEP GUIDE

## DUAL-RATED KIT

THE FLEXIBILITY YOU NEED, THE CLARITY YOU WANT



- ✓ Converts Dual-Rated Unit Coolers from A1 to A2L
- ✓ Enhanced safety with built-in leak detection technology
- ✓ Quick, hassle-free installation for Dual-Rated Evaporators
- ✓ Complete kit includes all components for a seamless installation



SCAN TO WATCH  
VIDEO TUTORIAL



## A1/A2L CONVERSION QUICK INSTALLATION TIPS

1. Remove access doors from header and return ends
2. Connect sensors to existing harness
3. Install refrigerant detector(s) using pre-drilled holes
4. Mount relay panel assembly
5. Complete wiring per provided diagrams
6. Apply labels and reinstall access doors



5/16" nut driver and flat-head screwdriver

### Part Numbers

|          |                                 |
|----------|---------------------------------|
| 08543357 | Air Defrost Conversion Kit      |
| 08543358 | Electric Defrost Conversion Kit |
| 08543359 | Secondary Sensor - 5 Fan Units  |

\*Conversion kits are sold separately and required for A2L applications.

\*\*Additional safety requirements are required for Refrigeration Systems utilizing A2L Refrigerants besides installation of the Conversion Kit on Dual-Rated evaporators. These requirements include leak mitigation valves, aMin & mRel compliance and additional requirements found in ASHRAE 15. Familiarize yourself with these additional requirements & follows instructions provided in Installation Operation Manuals to maintain compliance with safety standards.

## APPLICATION RATING & ELECTRICAL DATA

### AIR DEFROST MODELS // 6 FPI

| Model Number | BTUH Capacity @ 25°F ST and 10°F TD |                         |                                    | CFM  | No. of Fans | 115V                             |      |      |
|--------------|-------------------------------------|-------------------------|------------------------------------|------|-------------|----------------------------------|------|------|
|              | R404A                               | R407A/R448A/<br>R449A/B | R454A/R454C/<br>R455A <sup>1</sup> |      |             | Total Fan EC Motor Amps (1Phase) | MCA  | MOPD |
| RDL6A050ADA  | 4,100                               | 4,800                   | 5,000                              | 800  | 1           | 0.8                              | 15.0 | 20   |
| RDL6A062ADA  | 5,200                               | 6,000                   | 6,200                              | 785  |             |                                  |      |      |
| RDL6A081ADA  | 6,600                               | 7,800                   | 8,100                              | 775  |             |                                  |      |      |
| RDL6A088ADA  | 7,300                               | 8,500                   | 8,800                              | 1600 | 2           | 1.6                              | 15.0 | 20   |
| RDL6A113ADA  | 9,400                               | 10,900                  | 11,300                             | 1570 |             |                                  |      |      |
| RDL6A141ADA  | 11,700                              | 13,600                  | 14,100                             | 1550 |             |                                  |      |      |
| RDL6A159ADA  | 13,000                              | 15,300                  | 15,900                             | 1550 | 3           | 2.4                              | 15.0 | 20   |
| RDL6A170ADA  | 14,100                              | 16,300                  | 17,000                             | 2355 |             |                                  |      |      |
| RDL6A196ADA  | 16,100                              | 18,800                  | 19,600                             | 2355 |             |                                  |      |      |
| RDL6A220ADA  | 18,100                              | 21,200                  | 22,000                             | 2325 | 4           | 3.2                              | 15.0 | 20   |
| RDL6A234ADA  | 19,500                              | 22,500                  | 23,400                             | 3140 |             |                                  |      |      |
| RDL6A289ADA  | 23,500                              | 27,800                  | 28,900                             | 3140 |             |                                  |      |      |
| RDL6A316ADA  | 26,000                              | 30,400                  | 31,600                             | 3199 | 5           | 4.0                              | 15.0 | 20   |
| RDL6A375ADA  | 29,500                              | 36,100                  | 37,500                             | 3875 |             |                                  |      |      |

\*Dual Speed EC Motors include thermal overload protection.

<sup>1</sup> Additional Conversion Kit required with A2L refrigerants.

### ELECTRIC DEFROST MODELS // 6 FPI

| Model No.   | BTUH Capacity<br>@ -20°F ST and 10°F TD |                          |                                    | CFM  | No.<br>of<br>Fans | Total Fan Motor<br>Amps (1Phase) | 208-230V/1 |      | 230V        | Heater<br>Watts |
|-------------|-----------------------------------------|--------------------------|------------------------------------|------|-------------------|----------------------------------|------------|------|-------------|-----------------|
|             | R404A                                   | R407A/ R448A/<br>R449A/B | R454A/R454C/<br>R455A <sup>1</sup> |      |                   | EC Motor                         | Base Model |      | Heater Amps |                 |
|             |                                         |                          |                                    |      |                   | 208-230V                         | MCA        | MOPD | 1PH         |                 |
| RDL6E051DDA | 4,200                                   | 4,900                    | 5,100                              | 785  | 1                 | 0.5                              | 15.0       | 20   | 4.9         | 1125            |
| RDL6E058DDA | 4,900                                   | 5,600                    | 5,800                              | 775  |                   |                                  |            |      |             |                 |
| RDL6E079DDA | 6,600                                   | 7,600                    | 7,900                              | 1600 | 2                 | 1.0                              | 15.0       | 20   | 9.8         | 2250            |
| RDL6E092DDA | 7,700                                   | 8,800                    | 9,200                              | 1570 |                   |                                  |            |      |             |                 |
| RDL6E110DDA | 9,000                                   | 10,600                   | 11,000                             | 1550 |                   |                                  |            |      |             |                 |
| RDL6E129DDA | 10,500                                  | 12,400                   | 12,900                             | 1550 | 3                 | 1.5                              | 15.0       | 20   | 14.3        | 3300            |
| RDL6E148DDA | 12,100                                  | 14,200                   | 14,800                             | 2355 |                   |                                  |            |      |             |                 |
| RDL6E173DDA | 14,200                                  | 16,600                   | 17,300                             | 2325 | 4                 | 2.0                              | 15.0       | 20   | 19.2        | 4425            |
| RDL6E194DDA | 16,200                                  | 18,700                   | 19,400                             | 3140 |                   |                                  |            |      |             |                 |
| RDL6E218DDA | 18,200                                  | 21,000                   | 21,800                             | 3100 |                   |                                  |            |      |             |                 |
| RDL6E237DDA | 20,000                                  | 22,800                   | 23,700                             | 3925 | 5                 | 2.5                              | 15.0       | 20.0 | 24.1        | 5550            |

\*Dual Speed EC Motors include thermal overload protection.

<sup>1</sup> Additional Conversion Kit required with A2L refrigerants.

#### Capacity Correction for Electric Defrost Evaporators

| SST (Dew)             | 20   | 0     | -10   | -20 | -30   |
|-----------------------|------|-------|-------|-----|-------|
| Multiply Capacity by: | 1.15 | 1.075 | 1.038 | 1   | 0.963 |

# DISTRIBUTOR NOZZLES & EXPANSION VALVES

A1 AIR DEFROST MODELS // 6 FPI

| Model No.           |             | Part No.                   |                         |                         | No. of Circuits | Tube Diameter & Length |
|---------------------|-------------|----------------------------|-------------------------|-------------------------|-----------------|------------------------|
|                     |             | Nozzle @ 100°F Liquid Temp | TXV @ 100°F Liquid Temp | EEV @ 100°F Liquid Temp |                 |                        |
| R404A               | RDL6A050ADA | –                          | SBFSE-AA-C              | SER-AA                  | 1               | -                      |
|                     | RDL6A062ADA | –                          | SBFSE-AA-C              | SER-A                   | 1               | -                      |
|                     | RDL6A081ADA | L, #3/4                    | SBFSE-A-C               | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6A088ADA | L, #3/4                    | SBFSE-A-C               | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6A113ADA | L, #1                      | SBFSE-A-C               | SER-B                   | 2               | 3/16 x 14              |
|                     | RDL6A141ADA | L, #1-1/2                  | SBFSE-A-C               | SER-B                   | 3               | 3/16 x 14              |
|                     | RDL6A159ADA | L, #1-1/2                  | SBFSE-B-C               | SER-B                   | 3               | 3/16 x 14              |
|                     | RDL6A170ADA | L, #1-1/2                  | SBFSE-B-C               | SER-B                   | 4               | 3/16 x 14              |
|                     | RDL6A196ADA | L, #1-1/2                  | SBFSE-B-C               | SER-C                   | 3               | 3/16 x 14              |
|                     | RDL6A220ADA | L, #2                      | SBFSE-B-C               | SER-C                   | 4               | 3/16 x 14              |
|                     | RDL6A234ADA | L, #2                      | SBFSE-B-C               | SER-C                   | 4               | 3/16 x 14              |
|                     | RDL6A289ADA | L, #2-1/2                  | SBFSE-C-C               | SER-C                   | 6               | 3/16 x 14              |
|                     | RDL6A316ADA | L, #2-1/2                  | SBFSE-C-C               | SER-C                   | 6               | 3/16 x 14              |
|                     | RDL6A375ADA | L, #3                      | SBFSE-C-C               | SER-C                   | 8               | 3/16 x 14              |
| R407A/R448A/R449A/B | RDL6A050ADA | –                          | SBFDE-AA-C              | SER-AA                  | 1               | -                      |
|                     | RDL6A062ADA | –                          | SBFDE-AA-C              | SER-AA                  | 1               | -                      |
|                     | RDL6A081ADA | L, #3/4                    | SBFDE-AA-C              | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6A088ADA | L, #3/4                    | SBFDE-AA-C              | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6A113ADA | L, #1                      | SBFDE-A-C               | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6A141ADA | L, #1-1/2                  | SBFDE-A-C               | SER-B                   | 3               | 3/16 x 14              |
|                     | RDL6A159ADA | L, #1-1/2                  | SBFDE-A-C               | SER-B                   | 3               | 3/16 x 14              |
|                     | RDL6A170ADA | L, #1-1/2                  | SBFDE-A-C               | SER-B                   | 4               | 3/16 x 14              |
|                     | RDL6A196ADA | L, #1-1/2                  | SBFDE-B-C               | SER-B                   | 3               | 3/16 x 14              |
|                     | RDL6A220ADA | L, #2                      | SBFDE-B-C               | SER-B                   | 4               | 3/16 x 14              |
|                     | RDL6A234ADA | L, #2                      | SBFDE-B-C               | SER-B                   | 4               | 3/16 x 14              |
|                     | RDL6A289ADA | L, #2-1/2                  | SBFDE-B-C               | SER-C                   | 6               | 3/16 x 14              |
|                     | RDL6A316ADA | L, #2-1/2                  | SBFDE-C-C               | SER-C                   | 6               | 3/16 x 14              |
|                     | RDL6A375ADA | L, #3                      | SBFDE-C-C               | SER-C                   | 8               | 3/16 x 14              |

Above selections for reference only.

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

SBFDE Expansion valves are compatible with R407A and R448A refrigerants. SBFSE Expansion valves are compatible with R404A refrigerant.

For other valves, follow manufacturers selection guidelines.

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

# DISTRIBUTOR NOZZLES & EXPANSION VALVES

A2L AIR DEFROST MODELS // 6 FPI

| Model No. |             | Part No.                   |                         |                         | No. of<br>Circuits | Tube<br>Diameter &<br>Length |
|-----------|-------------|----------------------------|-------------------------|-------------------------|--------------------|------------------------------|
|           |             | Nozzle @ 100°F Liquid Temp | TXV @ 100°F Liquid Temp | EEV @ 100°F Liquid Temp |                    |                              |
| R454A     | RDL6A050ADA | -                          | SBFTE-AA-C              | SER-AA                  | 1                  | -                            |
|           | RDL6A062ADA | -                          | SBFTE-AA-C              | SER-AA                  | 1                  | -                            |
|           | RDL6A081ADA | 3/4,TYPE L                 | SBFTE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A088ADA | 3/4,TYPE L                 | SBFTE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A113ADA | 1,TYPE L                   | SBFTE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A141ADA | 1-1/2,TYPE L               | SBFTE-A-C               | SER-A                   | 3                  | 3/16 x 14                    |
|           | RDL6A159ADA | 1-1/2,TYPE L               | SBFTE-B-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A170ADA | 1-1/2,TYPE L               | SBFTE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A196ADA | 1-1/2,TYPE L               | SBFTE-B-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A220ADA | 2,TYPE L                   | SBFTE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A234ADA | 2,TYPE L                   | SBFTE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A289ADA | 2-1/2,TYPE L               | SBFTE-C-C               | SER-B                   | 6                  | 3/16 x 14                    |
|           | RDL6A316ADA | 2-1/2,TYPE L               | SBFTE-C-C               | SER-C                   | 6                  | 3/16 x 14                    |
|           | RDL6A375ADA | 3,TYPE L                   | SBFTE-C-C               | SER-C                   | 8                  | 3/16 x 14                    |
| R454C     | RDL6A050ADA | -                          | SBFVE-AA-C              | SER-AA                  | 1                  | -                            |
|           | RDL6A062ADA | -                          | SBFVE-AA-C              | SER-AA                  | 1                  | -                            |
|           | RDL6A081ADA | 3/4,TYPE L                 | SBFVE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A088ADA | 3/4,TYPE L                 | SBFVE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A113ADA | 1,TYPE L                   | SBFVE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A141ADA | 1-1/2,TYPE L               | SBFVE-A-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A159ADA | 1-1/2,TYPE L               | SBFVE-B-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A170ADA | 1-1/2,TYPE L               | SBFVE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A196ADA | 2,TYPE L                   | SBFVE-B-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A220ADA | 2,TYPE L                   | SBFVE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A234ADA | 2,TYPE L                   | SBFVE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A289ADA | 2-1/2,TYPE L               | SBFVE-C-C               | SER-C                   | 6                  | 3/16 x 14                    |
|           | RDL6A316ADA | 3,TYPE L                   | SBFVE-C-C               | SER-C                   | 6                  | 3/16 x 14                    |
|           | RDL6A375ADA | 4,TYPE L                   | SBFVE-C-C               | SER-C                   | 8                  | 3/16 x 14                    |
| R455A     | RDL6A050ADA | -                          | SBFVE-AA-C              | SER-AA                  | 1                  | -                            |
|           | RDL6A062ADA | -                          | SBFVE-AA-C              | SER-AA                  | 1                  | -                            |
|           | RDL6A081ADA | 3/4,TYPE L                 | SBFVE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A088ADA | 3/4,TYPE L                 | SBFVE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A113ADA | 1,TYPE L                   | SBFVE-A-C               | SER-A                   | 2                  | 3/16 x 14                    |
|           | RDL6A141ADA | 1-1/2,TYPE L               | SBFVE-A-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A159ADA | 1-1/2,TYPE L               | SBFVE-B-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A170ADA | 1-1/2,TYPE L               | SBFVE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A196ADA | 2,TYPE L                   | SBFVE-B-C               | SER-B                   | 3                  | 3/16 x 14                    |
|           | RDL6A220ADA | 2,TYPE L                   | SBFVE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A234ADA | 2,TYPE L                   | SBFVE-B-C               | SER-B                   | 4                  | 3/16 x 14                    |
|           | RDL6A289ADA | 2-1/2,TYPE L               | SBFVE-C-C               | SER-C                   | 6                  | 3/16 x 14                    |
|           | RDL6A316ADA | ,3,TYPE L                  | SBFVE-C-C               | SER-C                   | 6                  | 3/16 x 14                    |
|           | RDL6A375ADA | 4,TYPE L                   | SBFVE-C-C               | SER-C                   | 8                  | 3/16 x 14                    |

Additional Conversion Kit required with A2L refrigerants.

Above selections for reference only.

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

SBFTE Expansion valves are compatible with R454A refrigerant. SBFVE Expansion valves are compatible with R454C and R455A refrigerants.

For other valves, follow manufacturers 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 // 6 FPI

| Model No. |             | Amin Values (Ft²) |                |                |                |                | Loose SSOV Isolation Valve |                   | 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                       | 100°F Liquid Temp | Size                    | Description |
| R454A     | RDL6A050ADA | 17                | 23             | 28             | 34             | 40             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A062ADA | 19                | 25             | 31             | 36             | 42             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A081ADA | 21                | 27             | 33             | 38             | 44             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A088ADA | 21                | 27             | 32             | 38             | 44             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A113ADA | 25                | 31             | 37             | 43             | 49             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6A141ADA | 27                | 33             | 39             | 45             | 51             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6A159ADA | 29                | 35             | 41             | 47             | 53             | 3/8                        | SSOV6S130         | 7/8                     | CSOV-7S     |
|           | RDL6A170ADA | 29                | 35             | 41             | 47             | 53             | 3/8                        | SSOV6S130         | 7/8                     | CSOV-7S     |
|           | RDL6A196ADA | 36                | 47             | 58             | 69             | 80             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A220ADA | 42                | 53             | 64             | 75             | 86             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A234ADA | 39                | 50             | 61             | 72             | 84             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A289ADA | 42                | 54             | 65             | 77             | 88             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6A316ADA | 50                | 61             | 73             | 84             | 96             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6A375ADA | 57                | 69             | 81             | 92             | 104            | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
| R454C     | RDL6A050ADA | 16                | 22             | 28             | 33             | 39             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A062ADA | 18                | 24             | 30             | 35             | 41             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A081ADA | 21                | 26             | 32             | 37             | 43             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A088ADA | 20                | 26             | 31             | 37             | 42             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A113ADA | 24                | 30             | 36             | 42             | 47             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6A141ADA | 26                | 32             | 38             | 44             | 49             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6A159ADA | 28                | 34             | 40             | 45             | 51             | 3/8                        | SSOV6S130         | 7/8                     | CSOV-7S     |
|           | RDL6A170ADA | 28                | 34             | 39             | 45             | 51             | 3/8                        | SSOV6S130         | 7/8                     | CSOV-7S     |
|           | RDL6A196ADA | 35                | 45             | 56             | 67             | 78             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A220ADA | 40                | 51             | 62             | 73             | 84             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A234ADA | 38                | 49             | 59             | 70             | 81             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A289ADA | 41                | 52             | 63             | 74             | 85             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6A316ADA | 48                | 59             | 70             | 81             | 93             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6A375ADA | 56                | 67             | 78             | 89             | 100            | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
| R455A     | RDL6A050ADA | 15                | 20             | 25             | 30             | 35             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A062ADA | 17                | 22             | 27             | 32             | 37             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A081ADA | 19                | 24             | 29             | 34             | 39             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A088ADA | 18                | 23             | 29             | 34             | 39             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6A113ADA | 22                | 27             | 33             | 38             | 43             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6A141ADA | 24                | 29             | 34             | 40             | 45             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6A159ADA | 26                | 31             | 36             | 41             | 47             | 3/8                        | SSOV6S130         | 7/8                     | CSOV-7S     |
|           | RDL6A170ADA | 25                | 31             | 36             | 41             | 47             | 3/8                        | SSOV6S130         | 7/8                     | CSOV-7S     |
|           | RDL6A196ADA | 32                | 41             | 51             | 61             | 71             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A220ADA | 37                | 47             | 57             | 66             | 76             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A234ADA | 35                | 44             | 54             | 64             | 74             | 1/2                        | SSOV6S140         | 7/8                     | CSOV-7S     |
|           | RDL6A289ADA | 37                | 47             | 58             | 68             | 78             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6A316ADA | 44                | 54             | 64             | 74             | 85             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6A375ADA | 51                | 61             | 71             | 81             | 91             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |

Additional Conversion Kit required with A2L refrigerants.

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 & EXPANSION VALVES

A1 ELECTRIC DEFROST MODELS // 6 FPI

| Model No.           |             | Part No.                   |                         |                         | No. of Circuits | Tube Diameter & Length |
|---------------------|-------------|----------------------------|-------------------------|-------------------------|-----------------|------------------------|
|                     |             | Nozzle @ 100°F Liquid Temp | TXV @ 100°F Liquid Temp | EEV @ 100°F Liquid Temp |                 |                        |
| R404A               | RDL6E051DDA | 3/4, TYPE L                | SBFSE-AA-ZP             | SER-AA                  | 2               | 3/16 x 14              |
|                     | RDL6E058DDA | 1, TYPE L                  | SBFSE-A-ZP              | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6E079DDA | 1, TYPE L                  | SBFSE-A-ZP              | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6E092DDA | 1-1/2, TYPE L              | SBFSE-A-ZP              | SER-A                   | 3               | 3/16 x 14              |
|                     | RDL6E110DDA | 1-1/2, TYPE L              | SBFSE-A-ZP              | SER-A                   | 5               | 3/16 x 14              |
|                     | RDL6E129DDA | 2, TYPE L                  | SBFSE-B-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E148DDA | 2, TYPE L                  | SBFSE-B-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E173DDA | 2-1/2, TYPE L              | SBFSE-B-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E194DDA | 2-1/2, TYPE L              | SBFSE-C-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E218DDA | 3, TYPE L                  | SBFSE-C-ZP              | SER-C                   | 8               | 3/16 x 14"             |
|                     | RDL6E237DDA | 3, TYPE L                  | SBFSE-C-ZP              | SER-C                   | 9               | 3/16 x 14              |
| R407A/R448A/R449A/B | RDL6E051DDA | 3/4, TYPE L                | SBFDE-AA-ZP             | SER-AA                  | 2               | 3/16 x 14              |
|                     | RDL6E058DDA | 3/4, TYPE L                | SBFDE-AA-ZP             | SER-AA                  | 2               | 3/16 x 14              |
|                     | RDL6E079DDA | 1, TYPE L                  | SBFDE-A-ZP              | SER-A                   | 2               | 3/16 x 14              |
|                     | RDL6E092DDA | 1, TYPE L                  | SBFDE-A-ZP              | SER-A                   | 3               | 3/16 x 14              |
|                     | RDL6E110DDA | 1-1/2, TYPE L              | SBFDE-B-ZP              | SER-A                   | 5               | 3/16 x 14              |
|                     | RDL6E129DDA | 2, TYPE L                  | SBFDE-B-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E148DDA | 2, TYPE L                  | SBFDE-B-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E173DDA | 2, TYPE L                  | SBFDE-B-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E194DDA | 2-1/2, TYPE L              | SBFDE-C-ZP              | SER-B                   | 6               | 3/16 x 14              |
|                     | RDL6E218DDA | 2-1/2, TYPE L              | SBFDE-C-ZP              | SER-B                   | 8               | 3/16 x 14              |
|                     | RDL6E237DDA | 3, TYPE L                  | SBFDE-C-ZP              | SER-B                   | 9               | 3/16 x 14              |

## DISTRIBUTOR NOZZLES &amp; EXPANSION VALVES

A2L ELECTRIC DEFROST MODELS // 6 FPI

| Model No. |             | Part No.                   |                         |                         | No. of Circuits | Tube Diameter & Length |
|-----------|-------------|----------------------------|-------------------------|-------------------------|-----------------|------------------------|
|           |             | Nozzle @ 100°F Liquid Temp | TXV @ 100°F Liquid Temp | EEV @ 100°F Liquid Temp |                 |                        |
| R454A     | RDL6E051DDA | 3/4,TYPE L                 | SBFTE-AA-Z              | SER-AA                  | 2               | 3/16 x 14              |
|           | RDL6E058DDA | 3/4,TYPE L                 | SBFTE-A-Z               | SER-AA                  | 2               | 3/16 x 14              |
|           | RDL6E079DDA | 1,TYPE L                   | SBFTE-A-Z               | SER-A                   | 2               | 3/16 x 14              |
|           | RDL6E092DDA | 1,TYPE L                   | SBFTE-A-Z               | SER-A                   | 3               | 3/16 x 14              |
|           | RDL6E110DDA | 1-1/2,TYPE L               | SBFTE-B-Z               | SER-A                   | 5               | 3/16 x 14              |
|           | RDL6E129DDA | 2,TYPE L                   | SBFTE-B-Z               | SER-A                   | 6               | 3/16 x 14              |
|           | RDL6E148DDA | 2,TYPE L                   | SBFTE-B-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E173DDA | 2-1/2,TYPE L               | SBFTE-B-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E194DDA | 2-1/2,TYPE L               | SBFTE-C-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E218DDA | 3,TYPE L                   | SBFTE-C-Z               | SER-B                   | 8               | 3/16 x 14              |
|           | RDL6E237DDA | 3,TYPE L                   | SBFTE-C-Z               | SER-B                   | 9               | 3/16 x 14              |
| R454C     | RDL6E051DDA | 3/4,TYPE L                 | SBFVE-A-Z               | SER-AA                  | 2               | 3/16 x 14              |
|           | RDL6E058DDA | 3/4,TYPE L                 | SBFVE-A-Z               | SER-AA                  | 2               | 3/16 x 14              |
|           | RDL6E079DDA | 1-1/2,TYPE L               | SBFVE-A-Z               | SER-A                   | 2               | 3/16 x 14              |
|           | RDL6E092DDA | 1-1/2,TYPE L               | SBFVE-B-Z               | SER-A                   | 3               | 3/16 x 14              |
|           | RDL6E110DDA | 2,TYPE L                   | SBFVE-B-Z               | SER-A                   | 5               | 3/16 x 14              |
|           | RDL6E129DDA | 2,TYPE L                   | SBFVE-B-Z               | SER-A                   | 6               | 3/16 x 14              |
|           | RDL6E148DDA | 2,TYPE L                   | SBFVE-B-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E173DDA | 2-1/2,TYPE L               | SBFVE-C-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E194DDA | 3,TYPE L                   | SBFVE-C-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E218DDA | 3,TYPE L                   | SBFVE-C-Z               | SER-B                   | 8               | 3/16 x 14              |
|           | RDL6E237DDA | 4,TYPE L                   | SBFVE-C-Z               | SER-B                   | 9               | 3/16 x 14              |
| R455A     | RDL6E051DDA | 3/4,TYPE L                 | SBFVE-A-Z               | SER-AA                  | 2               | 3/16 x 14              |
|           | RDL6E058DDA | 3/4,TYPE L                 | SBFVE-A-Z               | SER-AA                  | 2               | 3/16 x 14              |
|           | RDL6E079DDA | 1-1/2,TYPE L               | SBFVE-A-Z               | SER-A                   | 2               | 3/16 x 14              |
|           | RDL6E092DDA | 1-1/2,TYPE L               | SBFVE-B-Z               | SER-A                   | 3               | 3/16 x 14              |
|           | RDL6E110DDA | 2,TYPE L                   | SBFVE-B-Z               | SER-A                   | 5               | 3/16 x 14              |
|           | RDL6E129DDA | 2,TYPE L                   | SBFVE-B-Z               | SER-A                   | 6               | 3/16" x 14             |
|           | RDL6E148DDA | 2,TYPE L                   | SBFVE-B-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E173DDA | 2-1/2,TYPE L               | SBFVE-C-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E194DDA | 3,TYPE L                   | SBFVE-C-Z               | SER-B                   | 6               | 3/16 x 14              |
|           | RDL6E218DDA | 3,TYPE L                   | SBFVE-C-Z               | SER-B                   | 8               | 3/16 x 14              |
|           | RDL6E237DDA | 4,TYPE L                   | SBFVE-C-Z               | SER-B                   | 9               | 3/16 x 14              |

Additional Conversion Kit required with A2L refrigerants.

The Distributor lines are 3/16" diameter and 14" long.

Expansion valve selections based on -20° Suction Temp and 8°F to 12°F evaporator TD. Contact factory for operating conditions outside this range.

Do not use pressure limiting TXV's when the condensing unit includes a CPR valve.

SBFTE Expansion valves are compatible with R454A refrigerant. SBFVE Expansion valves are compatible with R454C and R455A refrigerants.

For other valves, follow manufacturers 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 // 6 FPI

| Model No. |             | Amin Values (Ft²) |                |                |                |                | Loose SSOV Isolation Valve |                   | 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                       | 100°F Liquid Temp | Size                    | Description |
| R454A     | RDL6E051DDA | 19                | 25             | 30             | 36             | 42             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E058DDA | 21                | 27             | 32             | 38             | 44             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E079DDA | 21                | 26             | 32             | 38             | 43             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E092DDA | 25                | 30             | 36             | 42             | 47             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E110DDA | 26                | 32             | 38             | 44             | 50             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E129DDA | 29                | 35             | 40             | 46             | 52             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E148DDA | 31                | 36             | 42             | 48             | 54             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E173DDA | 41                | 52             | 63             | 74             | 85             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6E194DDA | 41                | 52             | 63             | 74             | 85             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6E218DDA | 48                | 60             | 71             | 82             | 93             | 1/2                        | SSOV6S140         | 1-3/8                   | CSOV-11S    |
|           | RDL6E237DDA | 46                | 58             | 69             | 80             | 91             | 1/2                        | SSOV6S140         | 1-3/8                   | CSOV-11S    |
| R454C     | RDL6E051DDA | 18                | 24             | 29             | 35             | 40             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E058DDA | 20                | 26             | 31             | 37             | 42             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E079DDA | 20                | 26             | 31             | 37             | 42             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E092DDA | 24                | 29             | 35             | 40             | 46             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E110DDA | 25                | 31             | 37             | 42             | 48             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E129DDA | 28                | 33             | 39             | 45             | 51             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E148DDA | 30                | 35             | 41             | 47             | 52             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E173DDA | 40                | 51             | 61             | 72             | 83             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6E194DDA | 40                | 50             | 61             | 72             | 82             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6E218DDA | 47                | 58             | 69             | 80             | 90             | 1/2                        | SSOV6S140         | 1-3/8                   | CSOV-11S    |
|           | RDL6E237DDA | 45                | 56             | 67             | 78             | 89             | 1/2                        | SSOV6S140         | 1-3/8                   | CSOV-11S    |
| R455A     | RDL6E042DDA | 15                | 20             | 25             | 29             | 34             | 3/8                        | SSOV3S130         | 5/8                     | CSOV-5S     |
|           | RDL6E051DDA | 17                | 22             | 27             | 32             | 37             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E058DDA | 18                | 23             | 29             | 34             | 39             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E079DDA | 18                | 23             | 28             | 33             | 38             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E092DDA | 22                | 27             | 32             | 37             | 42             | 3/8                        | SSOV3S130         | 7/8                     | CSOV-7S     |
|           | RDL6E110DDA | 23                | 28             | 33             | 39             | 44             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E129DDA | 25                | 30             | 36             | 41             | 46             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E148DDA | 27                | 32             | 37             | 43             | 48             | 3/8                        | SSOV3S130         | 1-1/8                   | CSOV-9S     |
|           | RDL6E173DDA | 36                | 46             | 56             | 65             | 75             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6E194DDA | 36                | 46             | 56             | 65             | 75             | 1/2                        | SSOV6S140         | 1-1/8                   | CSOV-9S     |
|           | RDL6E218DDA | 43                | 53             | 63             | 73             | 82             | 1/2                        | SSOV6S140         | 1-3/8                   | CSOV-11S    |
|           | RDL6E237DDA | 41                | 51             | 61             | 71             | 81             | 1/2                        | SSOV6S140         | 1-3/8                   | CSOV-11S    |

Additional Conversion Kit required with A2L refrigerants.

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.

## 12 | A1/A2L DUAL-RATED LOW PROFILE UNIT COOLER

### SPECIFICATIONS // ELECTRIC DEFROST MODELS

#### AIR DEFROST MODELS // 6 FPI

| Model No.   |      | Refrigerant Connections |               | No. of Hanger Slot Locations | Dimensions (In.) |        |        |        | Estimated Shipping Weight (Lbs.) |
|-------------|------|-------------------------|---------------|------------------------------|------------------|--------|--------|--------|----------------------------------|
| RDL6A       | Fans | RDL6A Liquid            | RDL6A Suction |                              | A                | B      | C      | D      |                                  |
| RDL6A050ADA | 1    | 3/8                     | 5/8           | 2                            | 17-1/4           | -      | -      | 27-1/8 | 41                               |
| RDL6A062ADA | 1    | 3/8                     | 5/8           | 2                            | 17-1/4           | -      | -      | 27-1/8 | 44                               |
| RDL6A081ADA | 1    | 3/8                     | 5/8           | 2                            | 17-1/4           | -      | -      | 27-1/8 | 47                               |
| RDL6A088ADA | 2    | 3/8                     | 5/8           | 2                            | 33-1/4           | -      | -      | 43-5/8 | 52                               |
| RDL6A113ADA | 2    | 3/8                     | 7/8           | 2                            | 33-1/4           | -      | -      | 43-5/8 | 55                               |
| RDL6A141ADA | 2    | 3/8                     | 7/8           | 2                            | 33-1/4           | -      | -      | 43-5/8 | 58                               |
| RDL6A159ADA | 2    | 3/8                     | 7/8           | 2                            | 33-1/4           | -      | -      | 43-5/8 | 62                               |
| RDL6A170ADA | 3    | 3/8                     | 7/8           | 2                            | 49-1/4           | -      | -      | 60-1/8 | 72                               |
| RDL6A196ADA | 3    | 1/2                     | 7/8           | 2                            | 49-1/4           | -      | -      | 60-1/8 | 78                               |
| RDL6A220ADA | 3    | 1/2                     | 7/8           | 2                            | 49-1/4           | -      | -      | 60-1/8 | 85                               |
| RDL6A234ADA | 4    | 1/2                     | 7/8           | 2                            | 65-1/4           | -      | -      | 76-5/8 | 115                              |
| RDL6A289ADA | 4    | 1/2                     | 1-1/8         | 2                            | 65-1/4           | -      | -      | 76-5/8 | 124                              |
| RDL6A316ADA | 4    | 1/2                     | 1-1/8         | 2                            | 65-1/4           | -      | -      | 76-5/8 | 147                              |
| RDL6A375ADA | 5    | 1/2                     | 1-1/8         | 3                            | 81-1/4           | 32-5/8 | 48-5/8 | 93-1/8 | 218                              |

#### ELECTRIC DEFROST MODELS // 6 FPI

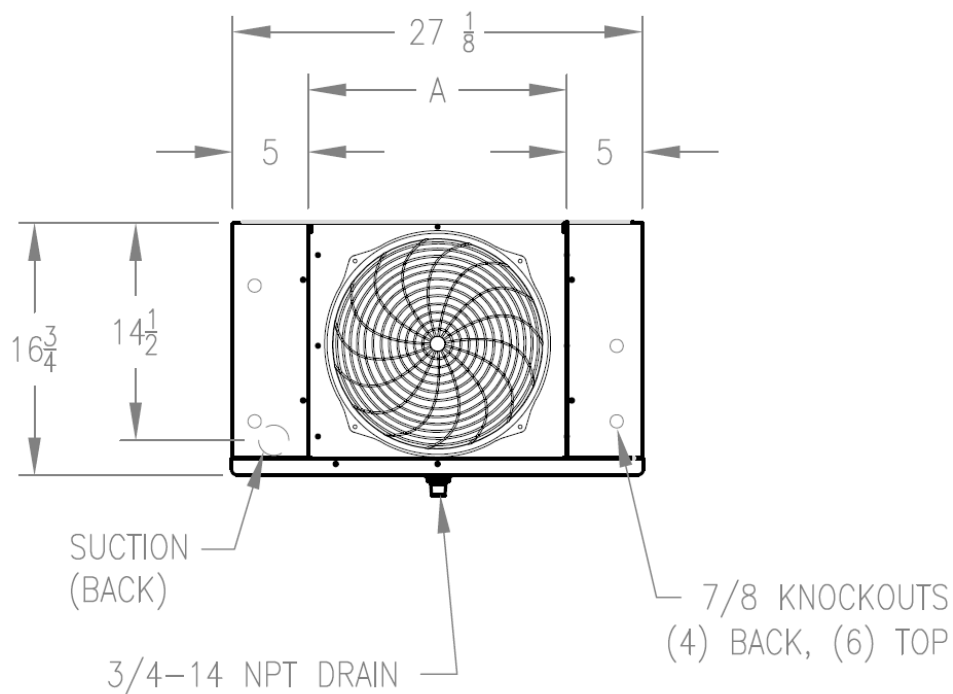
| Model No.   |      | Refrigerant Connections |               | No. of Hanger Slot Locations | Dimensions (In.) |        |        |        | Estimated Shipping Weight (Lbs.) |
|-------------|------|-------------------------|---------------|------------------------------|------------------|--------|--------|--------|----------------------------------|
| RDL6E       | Fans | RDL6E Liquid            | RDL6E Suction |                              | A                | B      | C      | D      |                                  |
| RDL6E051DDA | 1    | 3/8                     | 7/8           | 2                            | 17-1/4           | -      | -      | 27-1/8 | 44                               |
| RDL6E058DDA | 1    | 3/8                     | 7/8           | 2                            | 17-1/4           | -      | -      | 27-1/8 | 47                               |
| RDL6E079DDA | 2    | 3/8                     | 7/8           | 2                            | 33-1/4           | -      | -      | 43-5/8 | 52                               |
| RDL6E092DDA | 2    | 3/8                     | 7/8           | 2                            | 33-1/4           | -      | -      | 43-5/8 | 55                               |
| RDL6E110DDA | 2    | 3/8                     | 1-1/8         | 2                            | 33-1/4           | -      | -      | 43-5/8 | 58                               |
| RDL6E129DDA | 2    | 3/8                     | 1-1/8         | 2                            | 33-1/4           | -      | -      | 43-5/8 | 62                               |
| RDL6E148DDA | 3    | 3/8                     | 1-1/8         | 2                            | 49-1/4           | -      | -      | 60-1/8 | 78                               |
| RDL6E173DDA | 3    | 1/2                     | 1-1/8         | 2                            | 49-1/4           | -      | -      | 60-1/8 | 85                               |
| RDL6E194DDA | 4    | 1/2                     | 1-1/8         | 2                            | 65-1/4           | -      | -      | 76-5/8 | 124                              |
| RDL6E218DDA | 4    | 1/2                     | 1-3/8         | 2                            | 65-1/4           | -      | -      | 76-5/8 | 147                              |
| RDL6E237DDA | 5    | 1/2                     | 1-3/8         | 3                            | 81-1/4           | 32-5/8 | 48-5/8 | 93-1/8 | 195                              |

Drain connection is 3/4" NPT for all models.

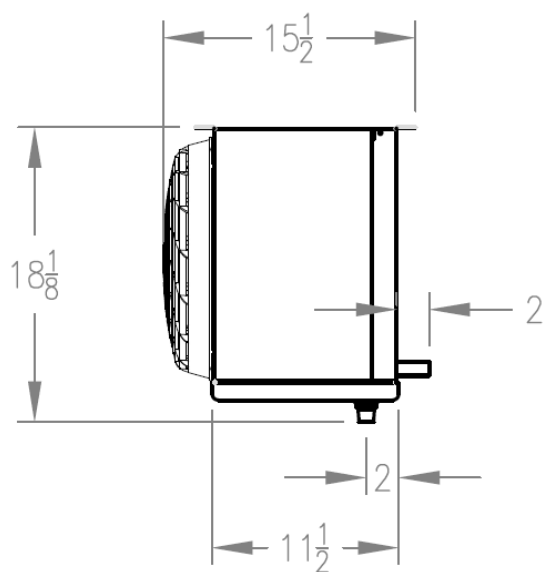
## DIMENSIONAL DRAWINGS

**Figure 1: Single Fan**

Front View



Side View

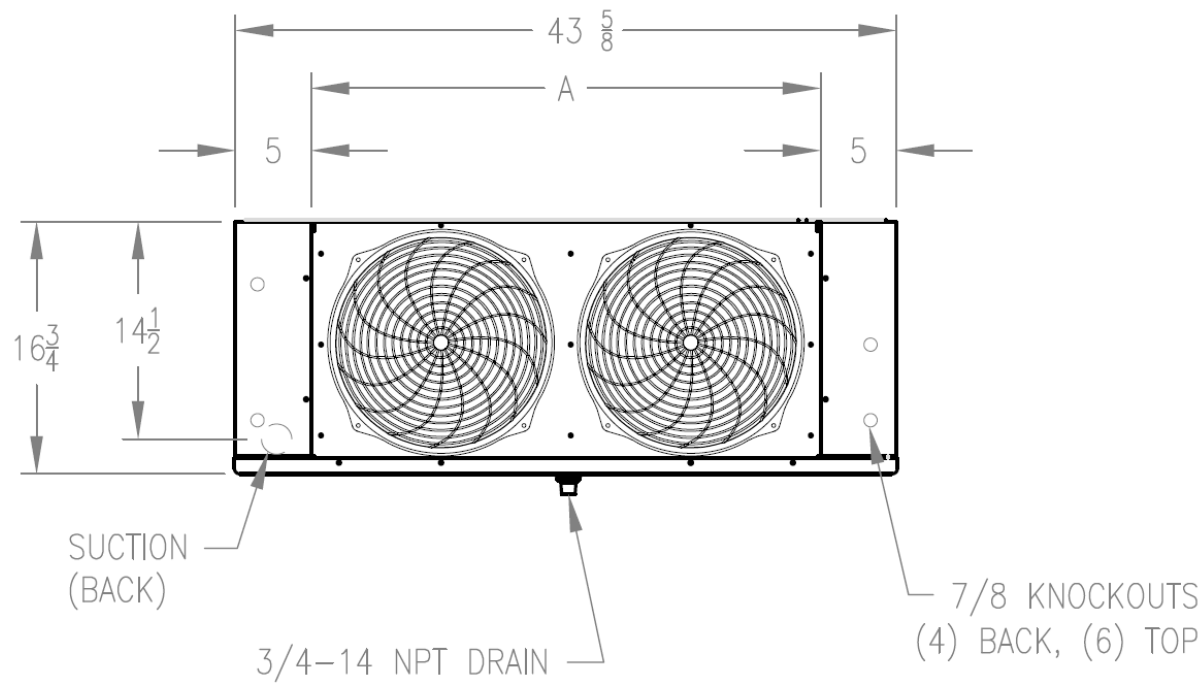


Measurements noted on the end view drawing are the same for all units. All mounting holes are  $3/8$ " diameter. All dimensions are in inches.

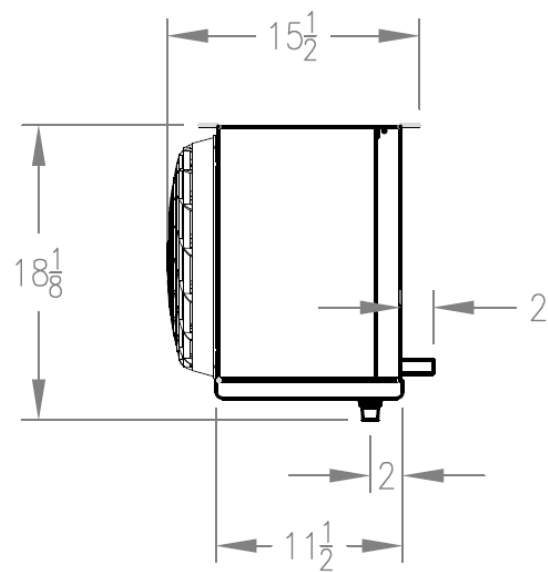
DIMENSIONAL DRAWINGS

Figure 2: Two Fan

Front View



Side View

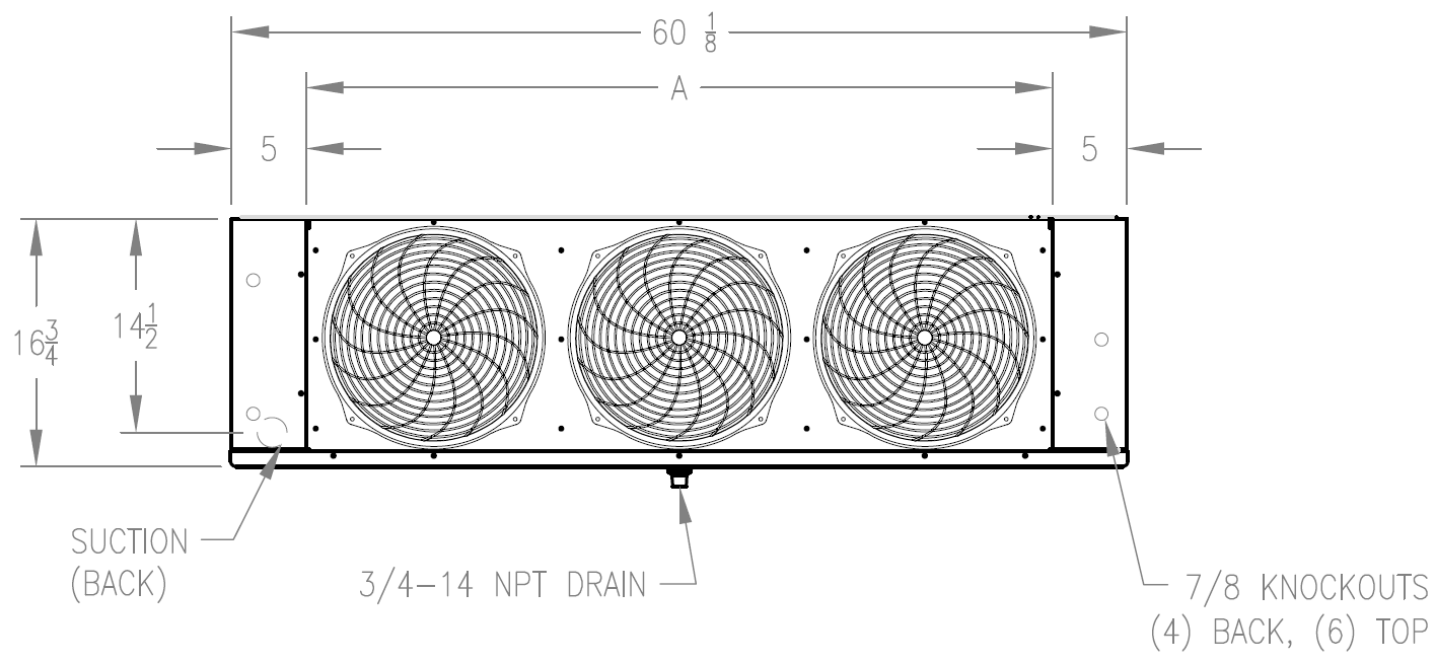


Measurements noted on the end view drawing are the same for all units. All mounting holes are 3/8" diameter. All dimensions are in inches.

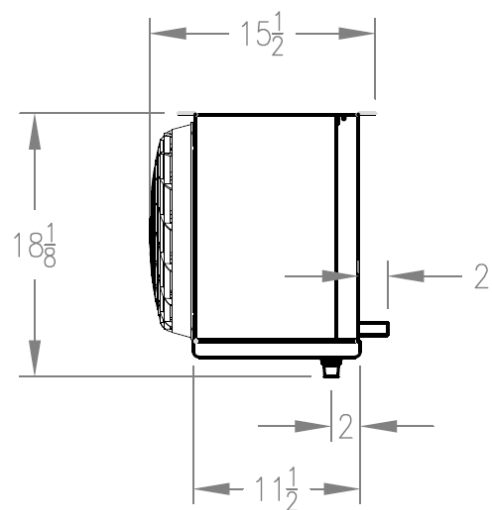
## DIMENSIONAL DRAWINGS

**Figure 3: Three Fan**

Front View



Side View

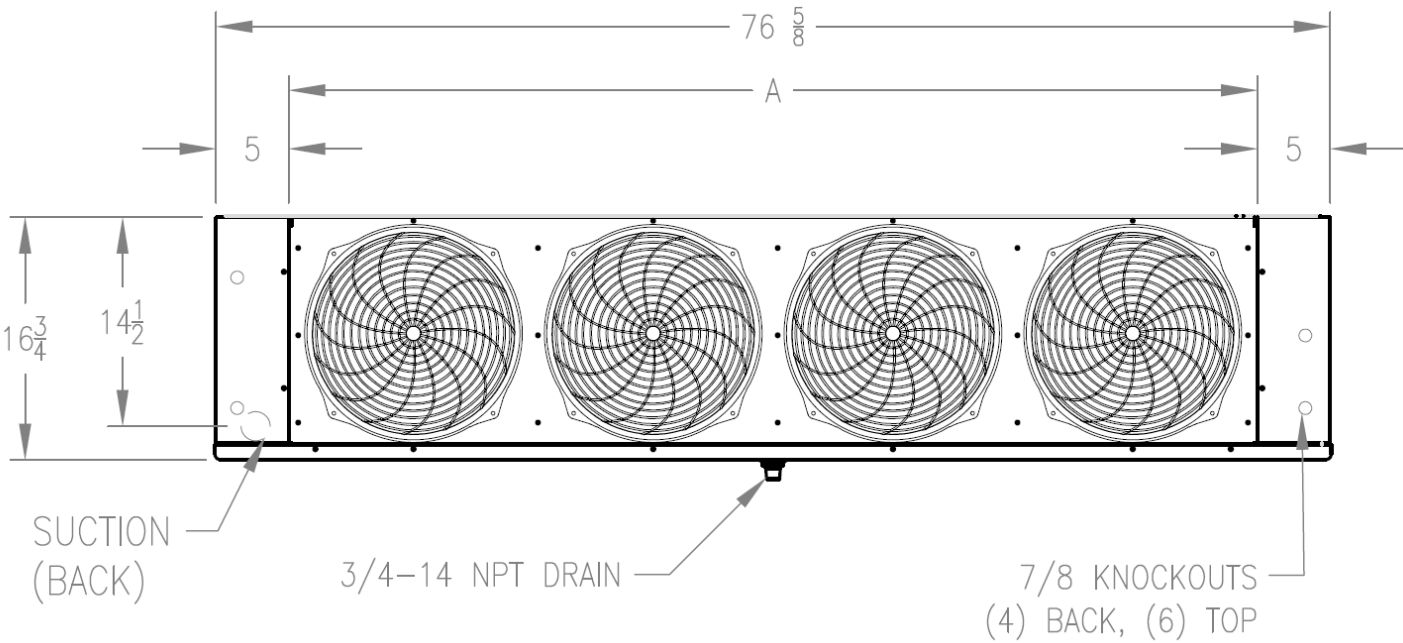


Measurements noted on the end view drawing are the same for all units. All mounting holes are  $3/8$ " diameter. All dimensions are in inches.

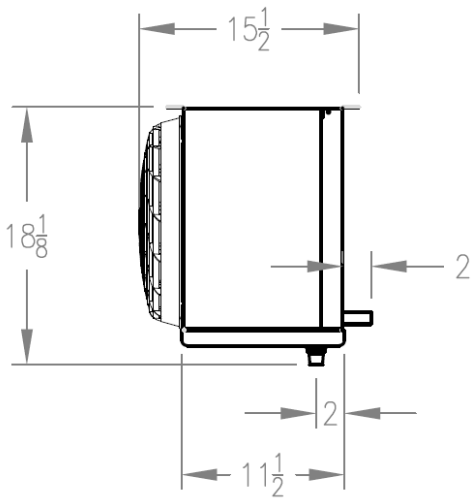
DIMENSIONAL DRAWINGS

Figure 4: Four Fan

Front View



Side View

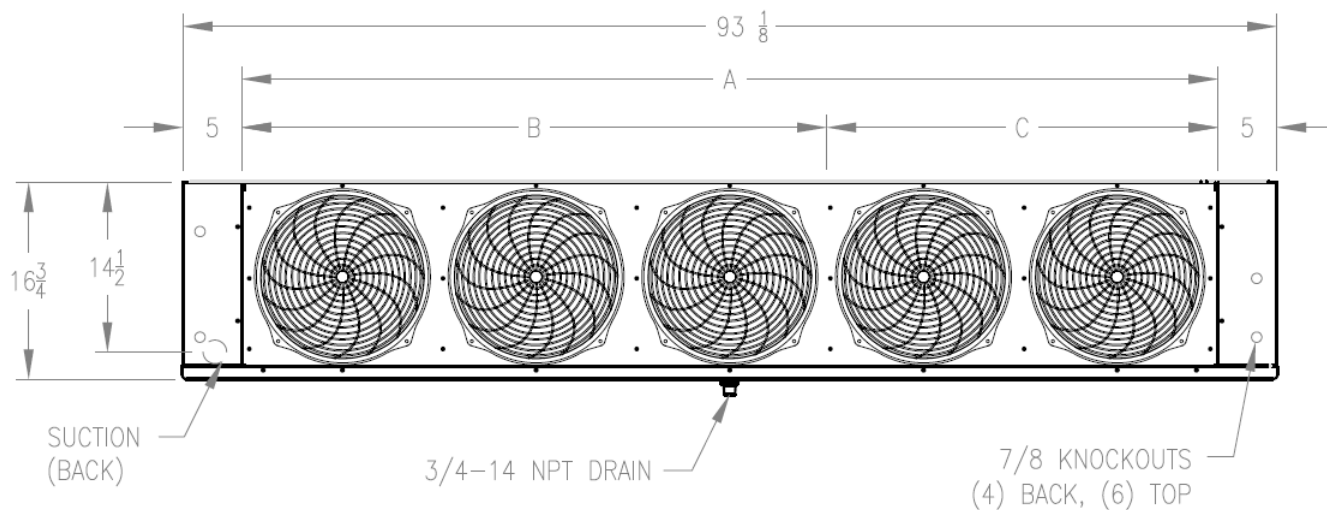


Measurements noted on the end view drawing are the same for all units. All mounting holes are  $3/8$ " diameter. All dimensions are in inches.

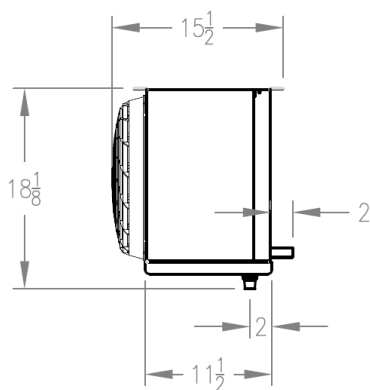
## DIMENSIONAL DRAWINGS

**Figure 5: Five Fan**

Front View



Side View



Measurements noted on the end view drawing are the same for all units. All mounting holes are  $3/8$ " diameter. All dimensions are in inches.

## EVAPORATOR APPLICATION RATINGS

Multiple conditions combine to determine the application capacity of an evaporator. Walk-in space temperature, relative humidity, saturated suction temperature difference, and outdoor ambient temperature. All of the factors are considered when calculating an evaporator application rating. These ratings are considerably higher than the net capacity value used for DOE ratings (AWEF).

The AWEF of an evaporator is calculated using the dry coil capacity and the daily evaporator power consumption. Power consumption included fan and defrost power. Evaporator net capacity reported to the DOE database is dry coil capacity less the full power fan watts. DOE test conditions are at 10°F evaporator/SST temperature difference and less than 50% relative humidity and 96°F liquid temperature. These conditions create a uniform test method, but should not be used for equipment selection. The equipment selected would be too large for the application.

Published application ratings are a guideline for proper equipment selection. They account for true operating conditions experienced by equipment.

## DEPARTMENT OF ENERGY ANNUAL WALK-IN ENERGY FACTOR (AWEF) RATINGS COOLER & FREEZER MODELS

| Cooler Models <sup>1</sup> |                  |     |         |          |
|----------------------------|------------------|-----|---------|----------|
| Base Model No.             | Defrost Type     | FPI | A1 AWEF | A2L AWEF |
| RDL6A050ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A062ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A081ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A088ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A113ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A141ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A159ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A170ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A196ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A220ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A234ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A289ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A316ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6A375ADA                | Air Defrost      | 6   | 9.00    | 9.00     |
| RDL6E051DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E058DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E079DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E092DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E110DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E129DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E148DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E173DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E194DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E218DDA                | Electric Defrost | 6   | 9.00    | 9.00     |
| RDL6E237DDA                | Electric Defrost | 6   | 9.00    | 9.00     |

| Freezer Models <sup>2</sup> |                  |     |         |          |
|-----------------------------|------------------|-----|---------|----------|
| Base Model No.              | Defrost Type     | FPI | A1 AWEF | A2L AWEF |
| RDL6E051DDA                 | Electric Defrost | 6   | 4.15    | 3.98     |
| RDL6E058DDA                 | Electric Defrost | 6   | 4.15    | 3.99     |
| RDL6E079DDA                 | Electric Defrost | 6   | 4.15    | 4.00     |
| RDL6E092DDA                 | Electric Defrost | 6   | 4.15    | 4.04     |
| RDL6E110DDA                 | Electric Defrost | 6   | 4.15    | 4.06     |
| RDL6E129DDA                 | Electric Defrost | 6   | 4.15    | 4.09     |
| RDL6E148DDA                 | Electric Defrost | 6   | 4.15    | 4.12     |
| RDL6E173DDA                 | Electric Defrost | 6   | 4.15    | 4.15     |
| RDL6E194DDA                 | Electric Defrost | 6   | 4.15    | 4.15     |
| RDL6E218DDA                 | Electric Defrost | 6   | 4.15    | 4.15     |
| RDL6E237DDA                 | Electric Defrost | 6   | 4.15    | 4.15     |

<sup>1</sup> If the model has a numerical value in the table above, the following statement applies: "The refrigeration system is designed and certified for use in walk-in cooler applications."

<sup>2</sup> If the model has a numerical value in the table above, the following statement applies: "The refrigeration system is designed and certified for use in walk-in freezer applications."





***Russell***

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Published December 2025

RU-RLX-DUAL-1225

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