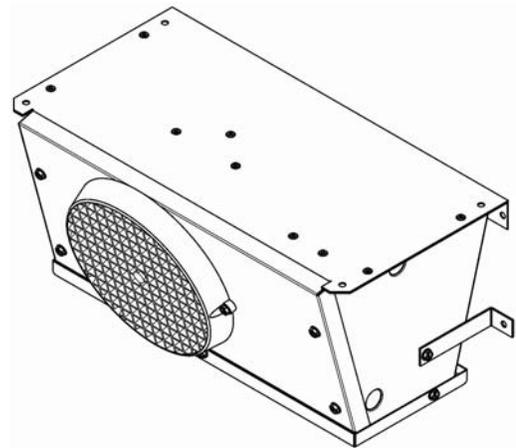
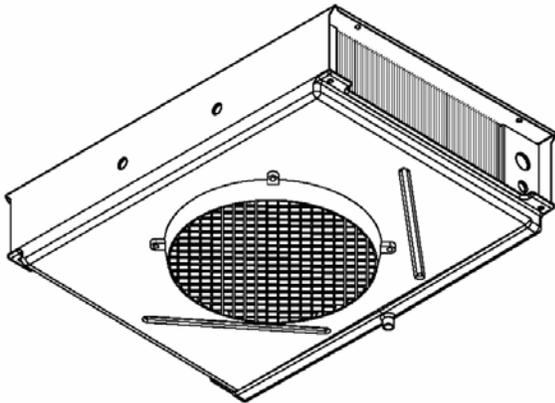




INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS FOR REACH-IN UNIT COOLERS

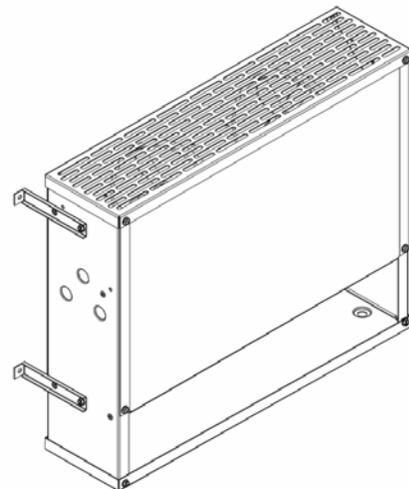
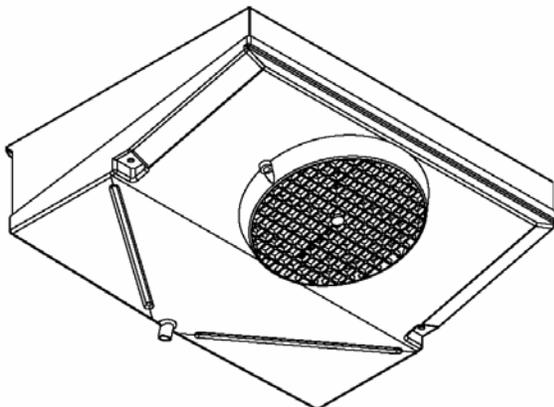
SERIES "RD"
SERIES "RC"

DUAL FLOW-AIR DEFROST APPLICATION
SINGLE FLOW-AIR DEFROST APPLICATION



SERIES "RS"
SERIES "RSE"
SERIES "RM"

SINGLE FLOW-AIR DEFROST APPLICATION
SINGLE FLOW-ELECTRIC DEFROST APPLICATION
VERTICAL FLOW-AIR DEFROST APPLICATION



WARNING: ELECTRICAL POWER MUST BE SWITCHED OFF/DISCONNECTED BEFORE STARTING ANY SERVICE WORK ON UNITS.

RECEIVING & INSPECTION

You have purchased one of the best units available today in the market with unique features. Congratulations and thank you for using Kool-Air. Upon receipt of shipment, please inspect the unit immediately. Notify and file a claim with the transport if there is any damage. Our shipment is thoroughly inspected before it is handed over to the transport driver.

Location & Installation

A location should be chosen so that the air flow from the unit (both entering and leaving) is unrestricted. These units draw air in from the fan and discharge cold air through the coil. The air flow should head in direction of the openings (doors). The unit is to be flush mounted against the ceiling and must have at least a 2 inch space between the coil and the wall for air movement. The unit must be level in all directions to ensure proper drainage of the condensate (the unit has a built-in-slope towards the drain).

Wiring

All wiring must be done in accordance with national and local electrical codes. All internal wiring of the unit is done at our factory and all wiring connections terminate at the internal electrical box. Remove one of the snap caps from the unit cabinet and replace it by the grommet supplied on the electrical box. Run the power supply conduit thru the grommet and terminate the connection at the electrical box located inside the unit. Use supply copper conductor only. The unit cabinet must be grounded.

Drain Line

All “RD”, “RC”, “RM”, “RS” and “RSE” units up to size 18 use ½ inch O.D. drain connection. “RS” and “RSE” size 23 to 53 have 5/8-inch O.D. drain connection. All drain connections are of polymer die formed material, for positive condensate removal and are leak free. The drain line should be pitched sharply and exit the cooler/freezer on the shortest run as possible. The drain line should be insulated and if the cooler temperature is below 32 degrees F drain line heaters (approx. 15 watts per foot of drain line) may be required. Do not overlap the drain heaters. Provide drain trap outside the cooler/freezer in a warm area.

Refrigerant Connections / Piping

All refrigerant piping and connections must be installed in accordance with local and national codes. Lines should be sized in accordance with the latest A.S.H.R.A.E. Standards. Suction line trap(s) should be provided and suction line should be pitched downward toward the compressor to prevent slugging and to ensure oil return to compressor. Make sure the system is completely clean and dry. Evacuate the entire system after it has been purged and leak tested, before charging it with refrigerant.

Expansion Valve

All “RD”, “RC”, “RM”, “RS” and “RSE” units up to size 33 need internally equalized TX valves. “RS” and “RSE” size 43 and 53 need externally equalized TX valves and these units are provided with an equalizer line connection. Selection of expansion valve is very important to get peak performance from the evaporator and to have a balanced system. Check superheat reading and adjust it to obtain full evaporator performance. Refer to expansion valve manufacturer’s catalogue for full details.

OPERATION

“RD”, “RC”, “RM” and “RS” models are for Air-Defrost Applications, where cooler temperature is +34 deg. F or above. Coil can be defrosted by switching the compressor off and just running unit cooler fans. “RSE” models are for freezer applications up to -20 deg. F. These units are provided with high-density electric heaters, factory set sealed fan delay/defrost termination thermostat. Adjust defrost timer (maximum 45 minutes) to match the application and to ensure that the coil is completely defrosted after each defrost cycle. Defrost thermostat must terminate defrost cycle and fan delay thermostat must prevent moisture being blown from the wet coil to the freezer at the termination of the defrost cycle. Time initiated temperature terminated defrost cycle is preferred to ensure clean coil at all times. Fan motor starts from the defrost thermostat.

MAINTENANCE

Periodically check the unit for any vibrations and dirt accumulation. Grease and dirt should be removed from the fans, fan guards and drain pan. The drain line should be checked and all foreign material removed. The finned surface may be cleaned by washing down dust with warm water spray and a mild detergent. Do not use alkaline or acidic solution as it will attack the coil material. These are relatively maintenance free units as the motors are permanently lubricated and thermally protected.

REPLACEMENT PARTS

Use only manufacturer approved replacement parts. When ordering parts, please make sure you have the complete model number, serial number and voltage information.

UNIT	MOTOR	FAN	FAN GUARD	DRAIN PAN
RC-10	M0002	F0001	F0201	1206D01
RC-13	M0002	F0001	F0201	1206D01
RC-15	M0002	F0001	F0201	1206D01

UNIT	MOTOR	FAN	FAN GUARD	DRAIN PAN
RD-09	M0003	F0002	F0201	1000D06
RD-11	M0003	F0002	F0201	1000D06
RD-13	M0003	F0003	F0202	1000D05
RD-15	M0003	F0003	F0202	1000D05
RD-18	M0003	F0004	F0202	1000D05
RD-23	M0003	F0005	F0203	1000D07
RD-30	M0003	F0005	F0203	1000D07

UNIT	MOTOR	FAN	FAN GUARD	DRAIN PAN
RS-09	M0002	F0001	F0201	1107D03
RS-11	M0002	F0001	F0201	1107D03
RS-13	M0002	F0001	F0201	1107D03
RS-14	M0002	F0001	F0201	1107D04
RS-18	M0002	F0001	F0201	1107D04
RS-23	M0002	F0001	F0201	1107D05
RS-27	M0002	F0001	F0201	1107D05
RS-33	M0002	F0001	F0201	1107D05
RS-43	M0002	F0001	F0201	1107D07
RS-53	M0002	F0001	F0201	1107D07

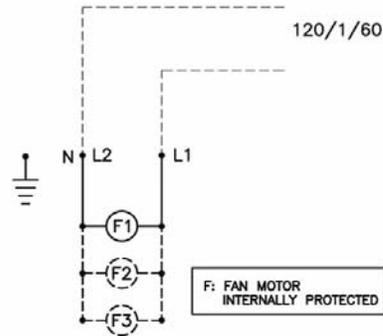
UNIT	MOTOR 120 V	MOTOR 240 V	FAN	FAN GUARD	DRAIN PAN	HEATER	FAN DELAY
RSE-09	M0002	NA	F0001	F0201	1107D03	H0001	E0004
RSE-11	M0002	M0005	F0001	F0201	1107D03	H0001	E0004
RSE-13	M0002	M0005	F0001	F0201	1107D03	H0001	E0004
RSE-14	M0002	M0005	F0001	F0201	1107D04	H0002	E0004
RSE-18	M0002	M0005	F0001	F0201	1107D04	H0002	E0004
RSE-23	M0002	M0005	F0001	F0201	1107D05	(2) H0001	E0004
RSE-27	M0002	M0005	F0001	F0201	1107D05	(2) H0001	E0004
RSE-33	M0002	M0005	F0001	F0201	1107D05	(2) H0001	E0004
RSE-43	M0002	M0005	F0001	F0201	1107D07	(2) H0002	E0004
RSE-53	M0002	M0005	F0001	F0201	1107D07	(2) H0002	E0004

UNIT	MOTOR	FAN	DRAIN PAN
RM-13	M0002	F0001	1404D01
RM-18	M0002	F0001	1404D02
RM-23	M0002	F0001	1404D03

DRAIN FITTING
P0001

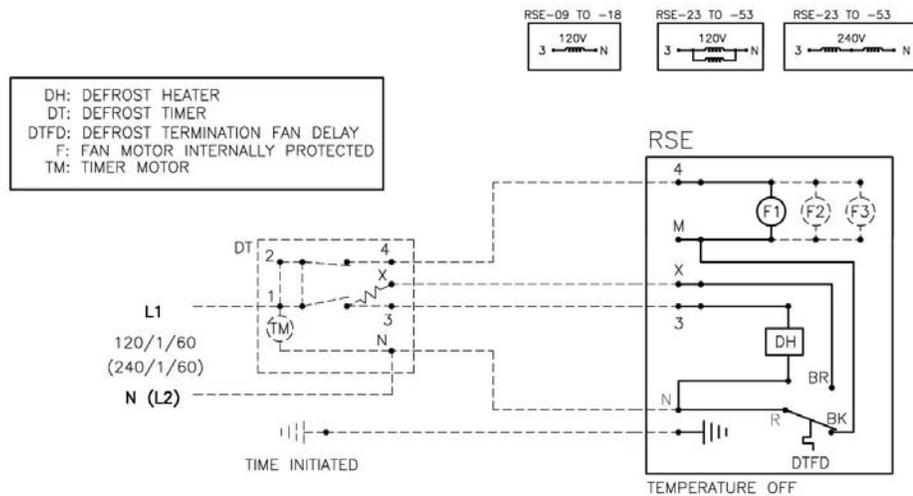
ELECTRICAL

“RD, RC, RM & “RS” Air Defrost



CAUTION : USE SUPPLY COPPER CONDUCTOR ONLY
ATTENTION: UTILSER DES CONDUCTEUR D’ALIMENTATION EN CUIVRE SEULEMENT

“RSE” Electric Defrost



CAUTION : USE SUPPLY COPPER CONDUCTOR ONLY
ATTENTION: UTILSER DES CONDUCTEUR D’ALIMENTATION EN CUIVRE SEULEMENT

HEAD OFFICE:

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Due to our policy of continuous product improvement, we reserve the right to make changes without notice.