



Project _____
Item No. _____
Quantity _____

BLAST CHILLER/FREEZER

MODEL RR1, MODEL RR1S & MODEL SR1S

RR1 – Blast Chiller with Condensing Unit
RR1S – Blast Chiller without Condensing Unit
SR1S – Blast Chiller / Freezer without Condensing Unit

STANDARD FEATURES

- 304 stainless steel inside casing
- 304 stainless steel sides and doors
- Top and back panel in treated steel
- Injected polyurethane foam insulation, 3-1/8" thick, 0% CFC
- 3/4" thick insulated floor with access ramp and 304 stainless steel cladding
- Field reversible door
- Internal safety door release
- Scraper seal at bottom of door
- Stainless steel front framework with anti-condensing system
- Coved internal corners with 1/2" radius
- 1-1/4" wide magnetic door seals with anti-dirt, anti-impact rounded profile, and tool-free removal
- Smooth, sealed control panel
- Baseboards for floor adjustment
- Easy maintenance

CAPACITY

- Accommodates trolleys 30" x 24" x 73" (WxDxH)
- Blast chilling capacity, RR1, RR1S, SR1S: 176 lbs. from 145°F, to 40°F, "to core" within 1 hr. 50 mins.
- Blast freezing capacity SR1S: 242 lbs. from 145°F, to 0°F, "to core" within 4 hrs. 30 mins.

MULTI-POINT FRIGIPROBE

- A stainless steel probe with four temperature sensors monitors core temperature of product
- Frigiprobe electronically assists blast chilling and freezing of products accurately regardless of quantity, weight, or thickness
- Blast freezing or chilling is automatically stopped once "core" temperature is reached (0°F to +40°F)
- Blast chilling mode can limit air temperature at the surface to 32°F to prevent surface icing

ELECTRONIC CONTROL

- Blast chilling or freezing controlled with Timer Mode or Frigiprobe Mode
- Timer Mode remembers last time settings
- Temperature maintained after blast chilling or freezing
- Automatic control of defrosting cycle
- Audible signal at start and end of cycle with remote report feature

OPTIONS & ACCESSORIES

- Audible alarm
- Stainless Steel backside
- 6 rolls of paper
- Fan stops with door open



- Remote alarm signal (output 12 Vdc)
- Temporary self-repair of probes and quick diagnosis of anomalies
- Temperature display in °F or °C

Control panel display

- Alternating digital display of core temperature and time at start of cycle (Frigiprobe mode)
- Alternating digital display of internal temperature and time remaining before end of cycle (Timer mode)
- Lights indicating functions in progress

Communication board and printer

- Serial type RS 232 C port and parallel port, enabling unit to be connected to a PC, to a data processing network or to a printer
- Built-in printer for recording temperature and duration of cycles

REFRIGERATION

Similar for all models

- R404A refrigerant
- Three 1 1-7/8" diameter fans mounted on a pivoting stainless steel panel for easy maintenance
- One evaporator with fitted thermostatic expansion valve

Model with condensing unit: RR1

- 3 hp hermetic compressor
- Water-cooled condensing unit
- High Pressure controller

- Water pressure valve
- Drier and liquid indicator

Models without condensing unit: RR1S and SR1S

- Solenoid valve on liquid line
- Refrigeration circuit with light nitrogen pressure

ELECTRICAL DEFROSTING

- Defrosting with three 500 W, stainless steel heaters and fan
- Safety thermostat for defrosting heaters on evaporator

REQUIREMENTS

General

- Wall Clearance
 - Top: 15-3/4"
 - Sides: 2-3/4"
- Ventilation of premises if temperature is higher than 100°F, taking into account the unit's heat emission
- Keep away from sources of heat
- Install gutter and siphoning tube

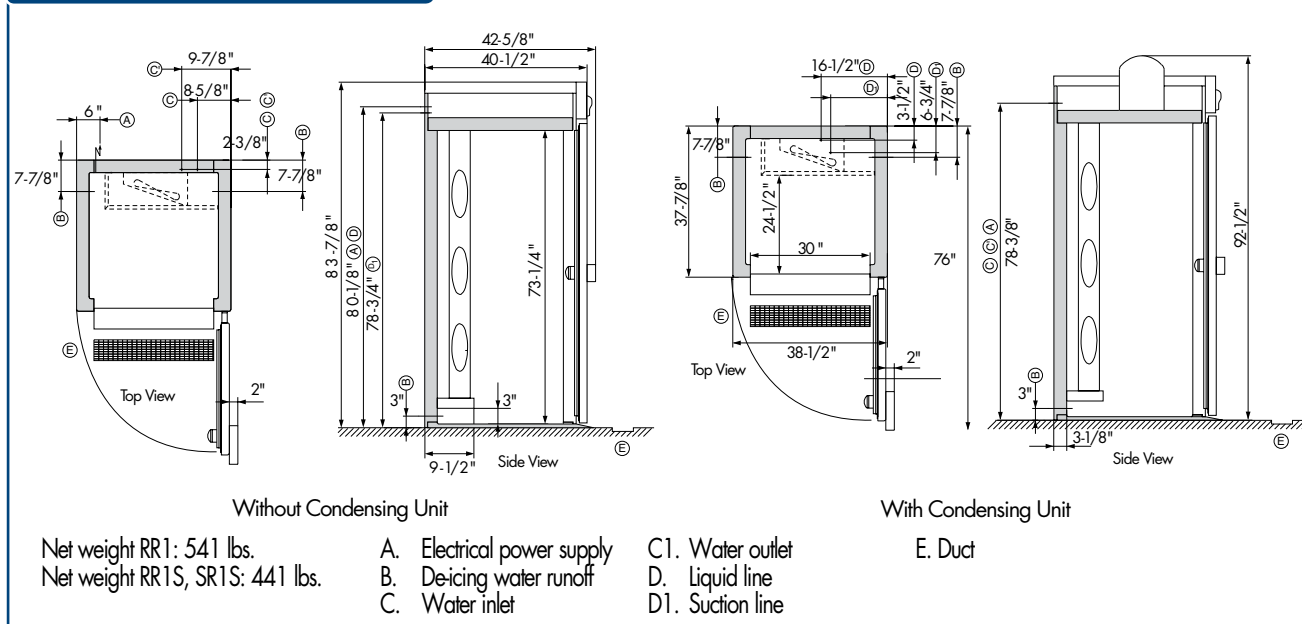
Electrical

- Electrical power supply must conform to local electrical codes regulation
- RR1 (with condensing unit)
 - Voltage: 208-240 V / 60 / 3, with ground
 - Installed power: 5800 W

- Maximum fuse size: 35 A
- Minimum circuit ampacity: 20 A
- Breaker: 30 A
- Condenser pressure: 29 psi min. – 145 psi max.
- 3/8" supply and evacuation connection
- RR1S, SR1S (remote condensing unit)
 - Voltage: 208-240 V / 60 / 1, with ground
 - Installed power: 8,000 BTU/hr.
 - Minimum circuit ampacity: 12 A
 - Breaker: 20 A
 - 3/8" supply and evacuation connection
 - Remote condensing unit
 - Compressor unit with crankcase heater
 - Condenser (air or water cooled)
 - Liquid receiver, liquid indicator, and drier-filter
 - High pressure controller safety device
 - Condenser pressure controller
 - Oil separator if semi-hermetic compressor unit (SR1S)
 - Electrical box for power supply and all connection protections for the condensing unit
 - Remote condensing unit needs to have "pump down" capability
 - Refrigerating capacity:
 - RR1S Evaporation temperatures 32°F: 31,000 BTU/hr.
 - RR1S Evaporation temperatures -4°F: 11,000 BTU/hr.
 - SR1S Evaporation temperatures -4°F: 41,000 BTU/hr.
 - SR1S Evaporation temperatures -40°F: 15,000 BTU/hr.
 - Consult installer for remote condensing unit requirements



RR1, RR1S & SR1S



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