



Product Data Sheet
30 cu. ft. Hazardous Location Refrigerator with
Natural Refrigerants

BSI-HC-ERS-30

Product Description

This 30 cu. ft. hazardous location refrigerator is meticulously engineered for the safe and reliable storage of volatile materials in potentially hazardous work environments. It's the ideal choice for industrial environments requiring strict safety protocols. This unit utilizes EPA SNAP compliant natural refrigerants for environmentally responsible operation. Maintaining a consistent temperature range of 2°C to 10°C with tight temperature uniformity, this refrigerator provides dependable cold storage backed by microprocessor technology. It features a durable white powder-coated steel exterior, with a keyed door lock for added security. Adjustable interior shelving allows for versatile organization. With low energy consumption and precise temperature control, the BSI-HC-ERS-30 is a safe and efficient solution for hazardous laboratory locations and industrial settings.

Images



Certifications



General Description and Application

Storage capacity (cu. ft)	30 Cu. Ft.
Door	One solid swing, right hinged; stainless steel door handle; magnetic door gasket
Shelves	Five adjustable
Mounting and Installation	Leveling Legs
Airflow Management	Forced draft circulation
External probe access	3/4" probe access port on rear wall
Insulation	EPA compliant high density urethane foam
Exterior materials	Powder coated steel
Access control	Keyed door lock
General warranty	Two (2) year parts and labor warranty
Compressor warranty	Five (5) year compressor parts warranty
Product Weight (lbs)	320
Shipping Weight (lbs)	350
Rated Amperage	3.1 Amps
Power Plug/Power Cord	Power cord not included - final power connections at site must be hardwired to meet local codes
Facility Electrical Requirement	110 - 120V AC, 15A breaker
Agency Listing and Certification	UL and c UL listed, Meets NFPA and OSHA guidelines for Hazardous locations, Class 1, Division II, Groups C & D

Performance

Uniformity (Cabinet air)	+/- 1.6°C
Stability (Cabinet air)	+/- 1.5°C
Maximum temperature variation (Cabinet air)	4.6 °C Total
Pull down time to nominal operating temp	<35 min (empty)
Energy Consumption (KWh/day)	< 1.5 KWh/day
Average Heat Rejection (BTU/hr)	500 BTU/hr

Performance data based on an empty chamber at steady state using buffered temperature probes per Energy Star test method for Laboratory Grade Refrigerators and Freezers. Product loading, door openings, and ambient conditions will affect performance.

Refrigeration System	
Compressor	Hermetic, variable speed
Refrigerant	EPA SNAP compliant R600a Isobutane
Condenser	Static - exterior walls of cabinet
Evaporator	Fin and tube design, high efficiency fan hazardous location rated
Defrost	Off-cycle defrost, no heat added
Controller, Configuration, Alarms and Monitoring	
Controller technology	Microprocessor temperature controller
Temperature Setpoint Range Notes	Minimum temperature limited to avoid freezing
Adjustable Temperature Range	2°C to 10°C
External alarm connection	Remote alarm contacts
Alarms	Audible and visual high/low-temperature alarms, Door ajar alarm, Remote alarm contacts
Display Probe	Product simulator bottle with glass bead media
Disclaimers	Refrigerator requires a minimum 4" of clearance around back and sides of the unit for proper ventilation (more if next to heat rejecting equipment) - improper installation will void the warranty and will lead to temperature maintenance issues, overheating and possible failure

Dimensions					
	Width (in.)	Depth (in.)	Height (in.)	Door Swing (in.)	Total open Depth (in.)
Exterior	35.75"	35.5"	72.5"	30.5"	66"
Interior	32"	22.5"	65"		

