



RS-500 Walk-In Cooler Door

Cold storage doors are often treated as an afterthought during the design of the environments they are used in. Because of this, the door can quickly become the weakest link in a refrigeration system. RollSeal kept this in mind when we set out to create a door specifically for walk-in cooler applications.

Conventional rigid cooler doors can pose a number of problems: seal integrity can degrade quickly through typical daily use; the lack of automated closure can result in them being left open; and large footprints can occupy excessive space and even pose safety hazards.

The RollSeal door provides a unique and affordable solution to these problems, keeping them from wreaking havoc on your operational efficiency. The patented, airtight, triple-layer sealing system offers peerless environmental containment. The door's impact-resistant design reduces overall footprint by 50%, while the automatic closure feature cuts opening times down to just 25% of what you might experience with a rigid door. With all that said, it's easy to see why the RollSeal door is quickly becoming the industry standard for walk-in coolers.

Design Considerations

For interior installation.	The door is designed to be mounted to the interior of the building.
To be face-mounted to the exterior wall of the cooler.	The door is designed to be face-mounted to the exterior wall of the cooler. This ensures proper egress functionality from inside the cooler and emergency manual operation of the door from outside. No additional framing or backing is required.
Open and Close Signal	The door comes standard with open and close signal relays that can be tied to control or alarm systems if required.
Passive Infrared Motion Sensor	The door comes standard with an exterior passive infrared motion sensor that will activate the door when traffic is in close proximity (approximately 1'). This sensor can be disabled to function solely as a secondary safety if needed.
Compliance	<ul style="list-style-type: none"> - UL325 Certified - NSF Certified - EISA Exempt per eCFR Part 431 (See Walk-In Coolers and Freezers - Doors at regulations.doe.gov for details).
Automatic Closure	The door is designed to close automatically. The time is programmable between 5 and 240 seconds. The factory setting is 20 seconds. The store designer(s) should be consulted to determine the preferred setting.
Emergency Egress Track System	This allows the door tracks to swing open when the fabric panel is pushed from the inside of the door.

Operational Parameters

Design Temperatures Exterior: 75°F (23.9°C) Interior: > 32°F (0°C)	RollSeal anticipates regular walk-in cooler box conditions opening into a conditioned space (typically a back room or store environment). The door can operate under other conditions; contact RollSeal to determine whether a Condensation Management System will be required.
Differential Pressure: ± 0.05 inH ₂ O	The minimum differential pressure is expected to be ± 0.05 inH ₂ O; this is typical of standard walk-in coolers. In coolers larger than 3,000 ft ² , refrigeration systems may add pressure, thus necessitating pressure relief valves. Contact RollSeal if necessary.

Installation Specifications

Door Size	Personnel	Equipment	Tools	PPE	Time
Up to 6' (W) x 9' (H)	2	Ladder	<ul style="list-style-type: none"> - Standard Hand Tools (Drill, Wrenches, Level, etc.) - 1-3/4" Hole Saw 	<ul style="list-style-type: none"> - Glasses - Gloves - Boots - Hard Hat 	~ 1 Hour

Specifications

Type	5K (RS-500)	Phase	1 PH
Application	Walk-In Cooler	Manual Override	Manually Driven (3/4" Socket)
Operational Temperature Range	32°F to 75°F (0°C to 23.9°C)	Horsepower	1/6 HP
Differential Pressure	± 0.05 inH ₂ O	Safety Beams	Standard (Monitored)
Seal Type	Industrial-Strength Magnet	Brake	Mechanical
Drive Type	Inline Gear Motor	Frame Material	G90 Galvanized/Aluminum
Drive Mounting Side	Internal (Left Side)	Tension Pipe Material	Impact-Resistant Foam
Speed	27" per Second	Panel Material	Anti-Static
Input Voltage	115V or 230V	Sealing Flap	Yes
Input Current	10A or 6A	Included Switches (x2)	2-Position Smart Switches*
Motor Frequency	50 Hz or 60 Hz	Egress	Break-Away Tracks

**Contact RollSeal for additional activation options.*

