RAYNOR

RapidCoil™ RC100

RapidCoil RC100 High Performance Door

Raynor's RapidCoil RC100 is engineered for small to medium interior technology applications up to 12' wide and 12' high. The RC100 door is designed for interior environments, providing a high-tech, safe, durable option for even the most rugged applications. The specially modified zipper sealing and inner guide technology provides a large area of travel allowing the door to operate in the harshest industrial environments. Incorporating Raynor's control panel, with variable frequency drive, provides maximum performance, flexibility and self-diagnostic capabilities.

"Zipper" Technology:
The specially designed zipper and inner guide technology provides a larger area of travel allowing the door to operate in harsh industrial environments such as manufacturing, processing and general warehousing.

Self Repairing:
Specialized two way breakaway design, with inner side guides, flexes to allow separation when impacted. The re-insertion point, located at the header, allows you to re-insert the curtain into the guides by the simple push of the button. No manual intervention or tools are required. This technology results in fewer service calls and minimal energy loss.

Cycle Life:
RapidCoil doors are designed to perform thousands of cycles per day without wearing parts such as stiffeners, springs, cables and straps or motor brakes, repair cost and operational costs are reduced.

Specifications

Door Size:
Raynor RC100 has a maximum door size of 12'x12'. Minimum size of 3'x7'.

Motor:
Standard 1 HP at 115V, 208V, 230V, 460V, or 575V. Motor is variable frequency driven, NEMA 4, 2 poles without brake.

Gearbox:
Size 50 for a motor of 1 HP and gear reduction ratio 1/28.

Detectors:
An infrared photocell, installed inside the side guide, detects the presence of a pedestrian or a vehicle. Upon activation, it opens the door immediately and keeps it open as long as the presence is detected. Height of photocell: 6" from the floor.

A bottom edge detector reverses the door when it hits an obstacle during the closing cycle. This detector is positioned at the bottom part of the curtain.

The bottom edge is referred to as a WDD or Wireless Detector. A wireless detection system consisting of a transmitter in the bottom bag of the door and a receiver in the control box. The system operates according to the "open loop" principle: when the sensor encounters an obstacle, the transmitter leaves the standby mode and send a signal to the receiver that immediately opens the door.

Power Supply:
Standard single phase 115V, 208V, 230V; three phase 208V, 230V, 460V, 575V. Frequency: 60 Hz. Circuit breakers to be provided by the customer: 10-20A for 1HP.

Absolute Encoder:
The absolute encoder replaces the old fashioned, less accurate, mechanical limit switches, for maximum door efficiency and productivity.

Logix Controller:
The logix controller is self-diagnostic, user friendly, and incorporates a multi-character LCD screen for easy set-up and adjustment.

Features and Benefits

Standard Operating Speed:
Opening speed up to 48"/sec, closing speed 24"/sec.

Door Operation:
Gravity driven with flexible soft bottom bag.

Side Guides:
Made of structural channels of 2-1/16" x 1-1/2"x1/8" in galvanized steel (optional powdercoat or stainless steel).

Inner Side Guide:
Polyethylene (PE-UHMW 1000); outer section 9/16" x 9/16".

Side Guide Covers:
Galvanized steel is standard or optional powdercoat or stainless steel, covers are available.

Drum:
Steel, diameter 4" x 0.078", shafts in steel.

Door Curtain:
Reinforced PVC (27 oz/sq.yd) and continuous sealing, bead, with flexible weighted soft bottom bag design. Available in different colors.

Vision:
Optional 15" vision banner, 24" x 24" individual windows and Bug Screens are available.

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