



RapidCoil™ Overview

Commercial High Speed Fabric Doors

Raynor's line of RapidCoil fabric, high speed doors utilize the industries best sealing technology, which gives an extremely tight seal against wind, rain and contaminants. RapidCoil doors, depending on size, can open as fast as 8 feet per second in some applications. By combining a tight sealing door with high speed operation, a more energy efficient environment is created, which can decrease operating costs in manufacturing environments. The RapidCoil line also features a soft bottom edge, photo eyes and reversing edge across all models, adding an uncompromising safety factor into the entire line. RapidCoil high speed fabric doors are available in a variety of colors with multiple vision options and activation methods.



RapidCoil RC100

- Economical
- Interior use
- Industrial application
- Zipper edge
- Small profile



RapidCoil RC200

- Interior use
- Clean room application
- Bead assembly
- Quiet
- Ultra-tight seal



RapidCoil RC300

- Exterior & interior
- Replaceable teeth edges
- Truly soft bottom edge-ultra safe!
- 60 mph wind resist



RapidCoil RC300HD

- Exterior & interior
- Optional open 8' / sec.
- Virtually any application
- 115 mph wind resistant

RapidCoil RC100

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 and 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.

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 sends 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 powder coat 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 powder coat 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.



"Zipper"
Technology



Self Repairing



Cycle Life

RapidCoil RC200

Raynor's RapidCoil RC200 is designed for small to medium interior technology applications, up to 12' wide and 12' high. The RC200 door is designed for interior environments, providing a high-tech, safe, and aesthetically pleasing door for even the most demanding customers. The RC200 combines our proven control and drive system, with our specially modified bead sealing technology, for ultra-smooth, ultra-quiet operation. Incorporating Raynor's control panel, with a variable frequency drive, provides maximum performance, flexibility and self-diagnostic capabilities.

Specifications

Door Size:

Raynor RC200 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 and 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 sends 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.

Optional Egress Systems:

Choose our, fully code compliant, Emergency Egress System or battery backup for added security.

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 powder coat 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 powder coat or stainless steel covers are available.

Drum:

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

Door Curtain:

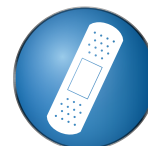
Reinforced PVC (27 oz/sq.yd) and continuous sealing, bead, with flexible weighted soft bottom bag design. Available in different colors.

Vision:

15" vision banner standard. 24" x 24" individual windows and bug screens are optional.



Ultra Tight
Bead Seal



Self Repairing



Cycle Life

RapidCoil RC300

Designed for applications up to 18' wide and 18' high, RC300 door provides reliable environment control while increasing productivity and safety. "Push-Pull" technology provides superior performance in high pressure environments and reduces maintenance. Soft curtain design is crash forgiving, self re-inserting, and exceptionally safe for users.

Specifications

Door Size:

Raynor RC300 has a maximum door size of 18'x18'. Minimum size of 3'x7'.

Door Operation:

Gear driven "Push-Pull" system positively drives the curtain both directions eliminating maintenance and damage prone tension systems, wind stiffeners and bottom bars.

Optional Egress Systems:

Choose our fully code compliant emergency Egress System for added safety.

Guide and Seal Technology:

1/8" thick galvanized steel with spring loaded UHMW inner guides allows for movement and deflection under pressure. The inner profile perfectly encapsulates the curtain drive locks, forming a near perfect seal. Wear and damage prone blade and brush systems are eliminated.

Drive Unit:

NEMA 4 rated direct drive unit utilizes soft start/stop technology, absolute encoder and dynamic braking. Maintenance prone limit switches and mechanical brakes are eliminated.

Control System:

The state of the art control system is user friendly and provides self diagnostic and programming functions. The NEMA 4x rated enclosure includes an open button and emergency stop.

Door Curtain:

27 oz. reinforced PVC vinyl, with your choice of 9 colors; blue, red, orange, yellow, white, gray, green, black and brown. Optional luminous daylight fabric material is available in white only.



Features and Benefits

Push Pull Technology:

Positive drive design eliminates wind stiffeners, tension systems and weighted bottom bars.

Full Automatic Re-insertion:

Door automatically re-inserts without manual intervention.

Interior/Exterior Performance:

Withstands and operates in moderate to high wind load or pressure.

Guide and Seal:

Friction free UHMW inner guide provides virtually perfect seal.

Advanced Drive Unit:

NEMA 4 motor incorporates absolute encoder and dynamic braking.

Control System:

A state of the art controller is self diagnostic and easy to program.

Vision:

Optional 15" vision banner or 24" x 24" individual windows and bug screens are available.

Warranty:

Raynor's RC300 includes an industry leading 5 year unlimited cycle warranty on the drive motor and 5 years on fabric workmanship. One year on balance of components.



High Speed
Operation



Self
Re-Inserting



Safety
Engineered

RapidCoil RC300HD

Designed for exterior applications with extreme pressure requirements, the RC300HD protects your environments against wind, rain, snow, dirt and harsh temperatures. The RC300HD opens and closes quickly, improving traffic flow, while providing energy savings, employee comfort and environmental control. The doors are self re-inserting if accidentally dislodged from the side guides, yet are perfectly safe due to our soft bottom edge.



Specifications

Door Size:

Raynor RC300HD has a maximum door size of 18'x18'. Minimum size of 3'x7'.

Door Operation:

Raynor's gear driven "Push-Pull" system positively drives the curtain through heavy wind loads while eliminating tension systems, wind stiffeners and bottom bars. Eliminating damage prone rigid components allows the use of a soft curtain design.

High Wind Resistance:

The unique and patented friction free side guide system is reinforced to provide operation of the door in wind pressure of up to 115 mph, depending on door size.

Guide and Seal Technology:

The patented side guides are formed of 1/8" thick galvanized steel with a spring loaded UHMW inner guide, which allows for movement and deflection under pressure. The inner guide profile perfectly matches the curtain "teeth" to form a near perfect perimeter seal. Wear and damage prone blade systems are eliminated.

Drive Unit:

Raynor's NEMA 4 drive unit utilizes soft start/stop technology, an absolute encoder and dynamic braking. Maintenance prone limit switches and brakes are eliminated.

Control System:

The state of the art control system is user friendly and provides self diagnostic and programming functions. The NEMA 4x rated enclosure includes an open button and emergency stop.

Door Curtain:

27 oz. reinforced PVC vinyl with your choice of 9 colors; blue, red, orange, yellow, white, gray, green, black and brown. Optional luminous daylight fabric material is available in white only.

Features and Benefits

Operates Under Extreme Pressure:

All weather doors are designed to withstand extreme wind and pressure up to 115 mph, depending on size. No wind bars required.

Push Pull Technology:

Curtain drive system eliminates the need for weighted bottom bars or tension systems.

Side Guides and Seal:

Patented side frame assembly provides virtually perfect seal while eliminating blade and brush systems.

Advanced Drive Unit:

NEMA 4 motor incorporates absolute encoder and dynamic braking eliminating wear prone components.

Control System:

A state of the art self diagnostic controller is user friendly and easy to program.

Vision:

Optional 15" vision banner or 24" x 24" individual windows and bug screens are available.

Warranty:

Raynor backs its doors with the best warranty in the industry. 5 years unlimited cycles on the drive motor and 5 years on fabric workmanship. One year on balance of components.



High Speed
Operation



Self
Re-Inserting



Safety
Engineered



“Zipper” Technology

The specially designed zipper and inter 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.



Ultra Tight Bead Seal

Specially modified bead sealing technology prevents air migration better than virtually any other door on the market. Sealing technology also completely seals the opening, providing a perfect barrier against drafts, humidity, noise, dust, and insects. This door is ideal for use in dry and clean room environments.



High Speed Operation

Variable speed operation of 48” per second. Up to 96” per second opening speed is an optional benefit. The gear driven Push-Pull system drives the curtain in both directions.



Safety Engineered

Soft Curtain is free of stiffeners, as well as rigid wind bars or bottom bars, and runs in side guides to prevent harm to users. The curtain is also free of straps that may cause additional injury. The Soft Curtain design is flexible, and gently molds to any object or person it comes in contact with, preventing injury.



Self Re-Inserting

Automatic re-insertion reduces maintenance and downtime. In the event of an impact, the door is designed to dislodge from the side guides and automatically return to the open position with no need for manual intervention.

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