



RS-600 High-Temperature Oven Roll-Up Door

Footprint often poses a significant problem with industrial and batch-style ovens. The RollSeal High-Temperature Oven Door eliminates the need to sacrifice floor space to accommodate conventional swing doors. While this certainly improves the safety and productivity of your operation, it doesn't come close to all the benefits the RollSeal door can provide.

Using both a patented high-temperature fabric and a "floating" sealing system, the RollSeal door can be installed on any oven opening, yet exhibit identical heat retention and energy consumption to conventional oven doors. Field trials have shown more than 50% savings over traditional doors, ensuring the heat stays in the oven where it is meant to be. It is also the only fabric door on the market rated for 500°F (260°C) oven applications.

We know this all may sound hard to believe. Nonetheless, we welcome the opportunity to show you a RollSeal door so you can let the high costs, safety concerns, and maintenance of your existing oven door become things of the past.

Design Considerations

The maximum temperature of the patented hook-and-loop seal is 300°F (148.9°C).	The patented hook-and-loop seal must be kept at or below 300°F (148.9°C) to ensure proper operation. This is done by ensuring the oven is balanced properly (see the information on differential pressure below). The gasket and seal flaps must be installed properly to eliminate heat transfer to maintain the life of the seal.
The door is oversized above the opening by 1' in both width and height.	This assists in eliminating heat transfer to ensure the maximum operational temperature of 300°F (148.9°C) is not exceeded.
Open and Close Signal	The operator comes standard with open and close signal relays that can be tied to the oven PLC. The oven must not be in high fire when the door is open.
The door must be completely sealed.	The door must be sealed against the oven jamb on both sides of the door frame. The gasket material behind all track flanges and the head unit must be mounted correctly. Uneven mounting surfaces may require additional gasket or caulk.

Operational Parameters

Operational Temperature Range: 200°F to 500°F (93.3°C to 260°C)	500°F (260°C) is the maximum operational temperature. Exceeding this temperature will shorten material life and void warranties.
Differential Pressure: -0.05 inH ₂ O to -0.15 inH ₂ O	The oven must be balanced to create negative differential pressure from the exterior environment. The pressure must be maintained between -0.05 inH ₂ O and -0.15 inH ₂ O.
Burner airflow must be routed away from the door.	Air from burner systems must be directed away from the door to reduce exterior temperatures, maintain low seal temperature, and extend door life. The aluminized coating radiates heat away from the door, but direct burner airflow will result in higher door temperatures.

Installation Specifications

Door Size	Personnel	Equipment	Tools	PPE	Time
Up to 6' W x 9' H	2	- Forklift - Ladder	- Standard Hand Tools (Drill, Wrenches, Level, etc.) - Chain Breaker - Reciprocating Saw (for Pallet)	- Glasses - Gloves - Boots - Hard Hat	~ 4 Hours
Between 6' W and 12' W (Any Height)	3	- Forklift - Scissor Lift - Ladder			~ 6 Hours
Between 12' W and 16' W (Any Height)	4	- Forklift - 2 Scissor Lifts - Ladder			~ 8 Hours

Specifications

Type	D6 (RS-600)	Ratio	1:1
Application	High-Temperature Oven	Horsepower	Up to 16' Wide: 1/2 HP
Operational Temperature Range	200°F to 500°F (93.3°C to 260°C)		Over 16' Wide: 1 HP
Differential Pressure	-0.05 to -0.15 inH ₂ O	Flame Resistance	FTNS 191A/M5903.1
Seal Type	Industrial Hook-and-Loop	Drive Mounting Orientation	Hood Mount
Drive Type	Jackshaft Gear Head Operator	Drive Attachment	Chain-Driven
Drive Mounting Side	Right of Head Unit (Standard)*	Safety Beams	Standard (Monitored)
Speed	6" per Second	Brake	Mechanical
Input Voltage	1 PH: 115/208/230; 3 PH: 230/460	Frame Material	G90 Galvanized
Input Current	1 PH: 8.6/4.1/4.1; 3 PH: 2.2/1.1	Tension Pipe Material	Impact-Resistant G90 Galvanized
Motor Frequency	50 Hz or 60 Hz	Panel Material	Aluminized Fiberglass
Phase	1 PH or 3 PH	Standard Switch (Not Included)	3-Position (Open/Stop/Close) [†]
Manual Override	Chain Hoist		

*Contact RollSeal for additional drive mounting options.

[†]Contact RollSeal for additional activation options.

