

RT-2000 Combination Fire/Smoke Damper

Description

The RT-2000 Fire/Class I Smoke Dampers are designed to prevent the spread of smoke and 1-1/2 hour fire rating for use within a dynamic HVAC system during life safety situations.

The RT-2000 is Underwriters Laboratories Inc.® (UL) listed and tested to the latest UL-555S and UL-555 standards.

The RT-2000 includes a factory installed actuator which should be cycled at least once every six months or sooner as local codes require.

The RT-2000 is available with factory installed blade position switch to connect to smoke control systems and indicate when blades are fully open or fully closed.

Refer to the *RT-2000 Combination Fire/Smoke Damper Product Bulletin (LIT-1201629)* for important product information.

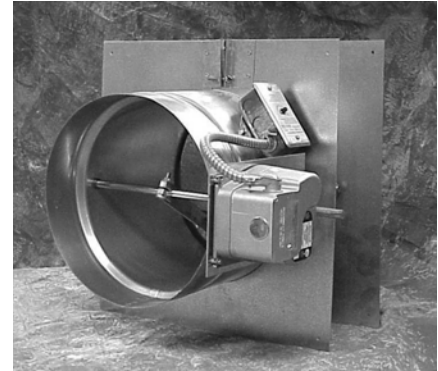
Features

- 1-1/2 hour fire rating
- 350°F rated actuators
- three-year warranty on materials and workmanship.
- shipping in as little as five working days from order entry

To Order

Specify the code number from the selection chart. RT-2000 fire/smoke dampers are available in one inch increments. Actual damper size is 1/4 inch less than nominal. All Johnson Controls® damper dimensions are from the outside-edges of the damper frame.

All Johnson Controls Dampers are built to order, just in time, and cannot be returned due to customer ordering errors. All dampers are backed by a 3-year warranty, which covers defects in materials or workmanship when used in our defined applications. Refer to terms and conditions of sale for specifics.



RT-2000 Combination Fire/Smoke Damper

RT-2000 Round Fire/Smoke Damper Selection Chart

	Code Number	R	T	G	d	d		N	C
Product Family	R = Round Damper								
Application	T = Combination Fire/Smoke								
Shroud Type	G = Galvanized								
Diameter	06 in. to 24 in. (1 in. increments)								
Closure Temperature	L = 165°F M = 212°F H = 250°F								
Actuator	C = 120 VAC Electric, 350°F D = 24 VAC Electric, 350°F P = 8-13 lb Pneumatic, 350°F								
Operation	NC = Normally Closed								
Options	I = Blade Position Indicator Switch								

Example: An 8 in. fire/smoke damper with 120 V, 250°F electric actuator at low actuation is RTG08LANC.

Submittal Specifications

Furnish and install Johnson Controls true round combination fire/smoke dampers at locations shown on plans or as described in schedules.

Damper shrouds are to be constructed of formed 20-gauge galvanized sheet steel.

Damper blades are to be constructed with 1-piece 14-gauge galvanized steel minimum.

Damper performance shall be 1-1/2 hour fire rated under the latest UL Standard 555 and bear a UL label attesting to same.

Damper sizing shall be by the designer in accordance with accepted industry practices to insure proper system performance.

Construction

Part	Construction
Shroud	20-gauge galvanized sheet steel, 14 in. integral sleeve and retaining cinch plates
Blade	Single skin, 14-gauge equivalent thickness galvanized steel
Shaft	5/16 in. (8 mm) diameter steel
Bearings	Stainless steel sleeve pressed into frame
Fuse Link	165°F, 212°F, or 250°F

Performance Specifications

RT-2000 Combination Fire/Smoke Damper			
Temperature Limits	250°F (121°C) or 350°F (177°C) depending on actuator		
Approximate Weight	Diameter	With Electric Actuator	With Pneumatic Actuator
	4 in. (102 mm)	8 lb (3.63 kg)	7 lb (3.18 kg)
	8 in. (203 mm)	10 lb (4.54 kg)	9 lb (4.08 kg)
	12 in. (305 mm)	13 lb (5.90 kg)	12 lb (5.44 kg)
	16 in. (406 mm)	15 lb (6.80 kg)	14 lb (6.35 kg)
	20 in. (508 mm)	19 lb (8.62 kg)	18 lb (8.16 kg)
	22 in. (559 mm)	21 lb (9.53 kg)	20 lb (9.07 kg)

Note: Dampers are tested using instrumentation and procedures in accordance with AMCA Standard No. 500-89, Test Methods for Louvers, Dampers, and Shutters.