



Application

The RD2 ceiling radiation damper employs butterfly style blades for point-of-origin control of radiant heat in HVAC systems. The RD2 is installed horizontally in the ceiling membrane of floor-ceiling or roof-ceiling assemblies with fire resistance ratings up to and including 3 hours.

Standard Construction

Frame: 22 gauge (0.85) galvanized steel.

Blades: 22 gauge (0.85) galvanized steel — butterfly. Insulated with ceramic refractory material for dampers larger than 114 in.² (735 cm²).

Fire Closure Device: Fusible link.

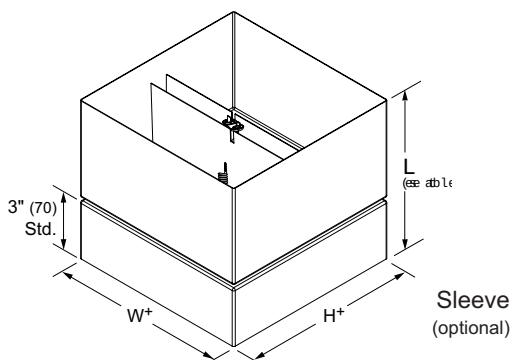
Fire Closure Temperature: 165°F (75°C).

Minimum Size: 4" × 6" (102 × 152)

Maximum Size: 24" × 24" (610 × 610)

Options

- ☐ Factory Installed Sleeve:
 - ☐ Steel
 - ☐ R6.5 Insulated Duct Board Plenum (requires Plaster Ground).
 - ☐ R8.7 Insulated Duct Board Plenum (requires Plaster Ground).
- ☐ Transitions (sleeve required):
 - ☐ Round ☐ Oval ☐ Square/Rectangular
 - ☐ Top ☐ Bottom Side: ☐ W ☐ H ☐ P ☐ Q
 - Collar depth: ☐ 2" (51) Std. ☐ 4" (102)
- ☐ Plaster Ground ☐ 5/8" (16) deep × 1" (25) wide Std.
 - ☐ 1 1/4" (32) deep × 1 1/4" (32) wide
 - ☐ 2" (51) deep × 1" (25) wide ☐ 4" (102) deep × 1" (25) wide
- ☐ Flanged: ☐ 3/4" (19) Std. ☐ 1" (25)
- ☐ Alternate blade protection — drywall for dampers larger than 114 in.² (735 cm²).
- ☐ Alternate 212°F (100°C) fire closure temperature.
- ☐ VC — volume control device, factory mounted.
- ☐ Thermal blanket for steel backed diffuser: CRB-24 (Ceramic refractory blanket).
- ☐ Boot rail installation set:
2 pieces 25" (635) long.
- ☐ WHI installation angle set:
2 angles 1" × 1/2" × 28" long (25 × 13 × 711) × 20 ga. (1.0)
2 angles 1" × 1/2" × 3" long (25 × 13 × 76) × 20 ga. (1.0)



Ratings

UL 555C Fire Resistance Rating: 3 hour (horizontal, for use in 1, 2 or 3 hour rated assemblies)

Listings

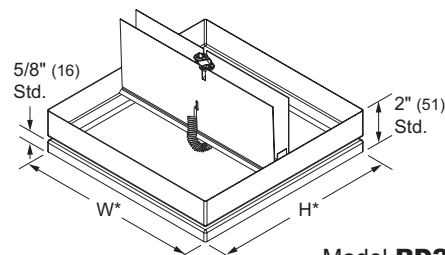
UL 555C listing: R14980

CSFM listing: 3226-1404:100

Warnock Hersey listing #: WHI-495-PSH-0177, -0178

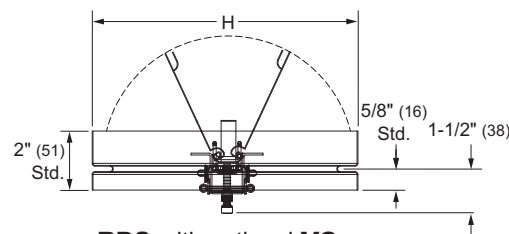
Meets NFPA Standards: 90A and 101

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC

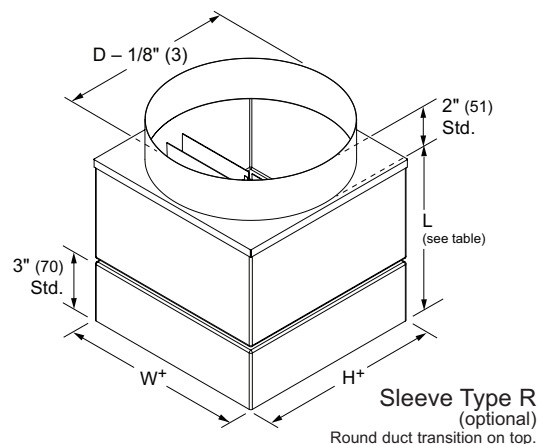


Model RD2
(standard)

*Damper dimensions furnished approximately 1/4" (6) under net O.D.



RD2 with optional VC

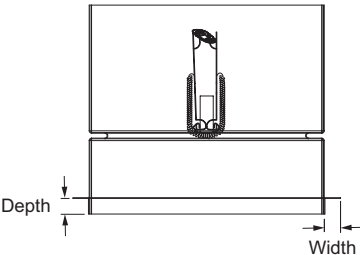
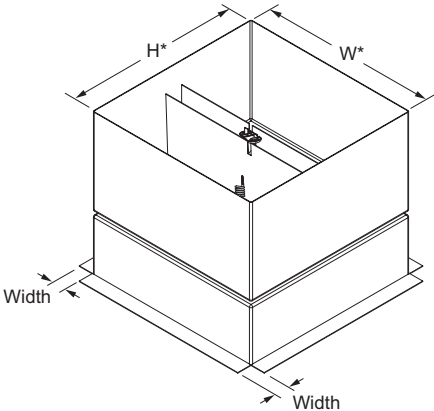
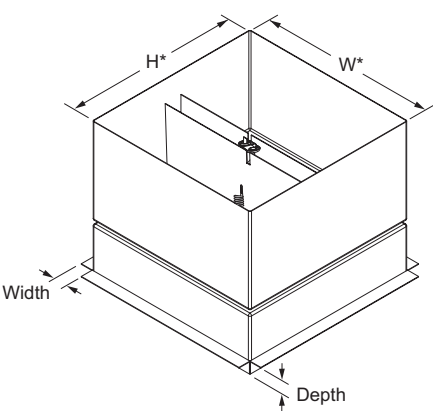


Sleeve Type R
(optional)
Round duct transition on top.

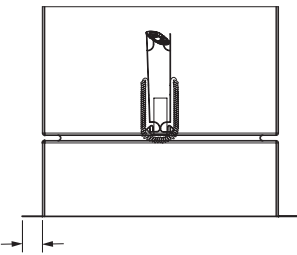
Sleeve Table	
Damper Height	Sleeve Length 'L'
H ≤ 10" (254)	8" (203)
10" (254) < H ≤ 14" (356)	10" (254)
14" (356) < H ≤ 18" (457)	12" (305)
18" (457) < H ≤ 22" (559)	14" (356)
H > 22" (559)	15" (381)

*Damper dimensions furnished approximately net O.D.

RD2 Sleeve with Flange and Plaster Ground Options



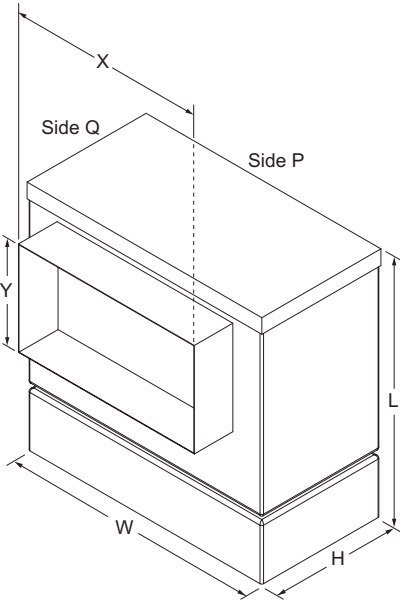
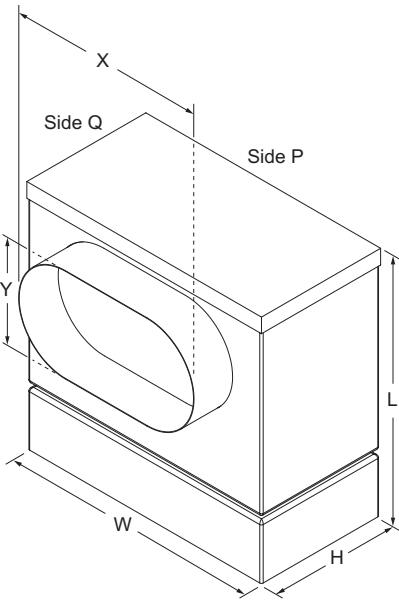
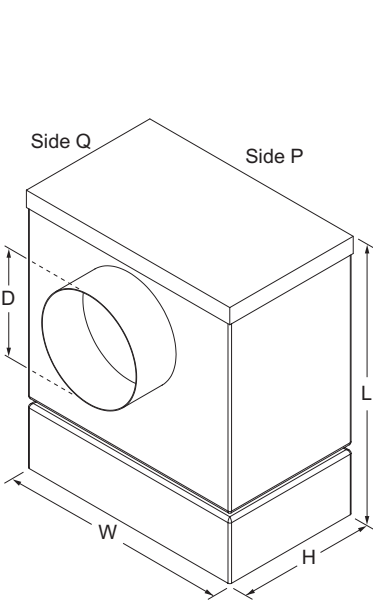
Sleeve (optional)
With standard plaster ground.



Sleeve (optional)
With standard flange.

*Damper dimensions furnished approximately net O.D.

Damper Size Limitations for Round, Oval and Square/Rectangular Duct Transitions



Sleeve table
for transistions

"D" or "Y" Dimension	"L" Length
D or Y ≤ 7" (178)	11" (279)
7" (178) < D or Y ≤ 10" (254)	14" (356)
D or Y > 10" (254)	D or Y + 4" (102)

Information is subject to change without notice or obligation.

NOTE: Dimensions in parentheses () are millimeters.