

Application

The VFD-10-A fire damper employs curtain style blades for point-of-origin control of fire in static HVAC systems. The VFD-10-A may be installed in vertical walls or partitions, or horizontally in floors or assemblies with fire resistance ratings up to 2 hours.

Standard Construction

Frame: 22 gauge (0.85) galvanized steel.

Blades: 24 gauge (0.7) galvanized steel – curtain style.

Fire Closure Device: Fusible link.

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

Minimum Size: Vertical mount: 4" x 4" (102 x 102)
Horizontal mount: 6" x 6" (152 x 152)

Maximum Size: Single section: Vertical: 48" x 48" (1219 x 1219)
Horizontal: 40" x 40" (1016 x 1016)
Multiple Section: Vertical: 120" x 80" (3048 x 2032) or
80" x 120" (2032 x 3048)
Horizontal: 80" x 80" (2032 x 2032)

Stainless Steel: Single section: 40" x 40" (1016 x 1016)
Multiple Section: Vertical: 80" x 40" (2032 x 1016) or
40" x 80" (1016 x 2032) or
108" x 24" (2743 x 559)
Horizontal: 80" x 40" (2032 x 1016) or
40" x 80" (1016 x 2032)

Options

- Factory installed sleeve: Integral
 - Gauge: 20 (1.0) 18 (1.3) 16 (1.6) 14 (2.0) 10 (3.5)
 - Length: 12" (305) 16" (406) 24" (610) Other _____
- Low leakage taped joints. (Integral sleeve required)
- Transitions: Flanged (sleeve required)
 - Round Oval
 - Duct connections (sleeve required):
 - 1" (25) S-clip DM-25 DM-35 S & Drive WARD
- Retaining angle systems:
 - Gauge: 20 (1.0) 16 (1.6)
 - Picture frame: SSPF (single-side) DSPF (2-side)
 - Individual angle sets: SS (single-side) DS (2-side)
- Alternate fire closure temperature.
 - 212°F (100°C)
- Duct access door factory mounted in common sleeve.
- Generic mullion for oversized masonry or concrete openings.
- Type-304 stainless steel construction.
- PI-10 (Blade closure indication switch package):
 - External mount (sleeve required) Internal mount Loose

Ratings

UL 555 Fire Resistance Rating: 1½ hour (vertical and horizontal)

UL HNLJ.V-5: Ventilation Duct Assemblies



Listings

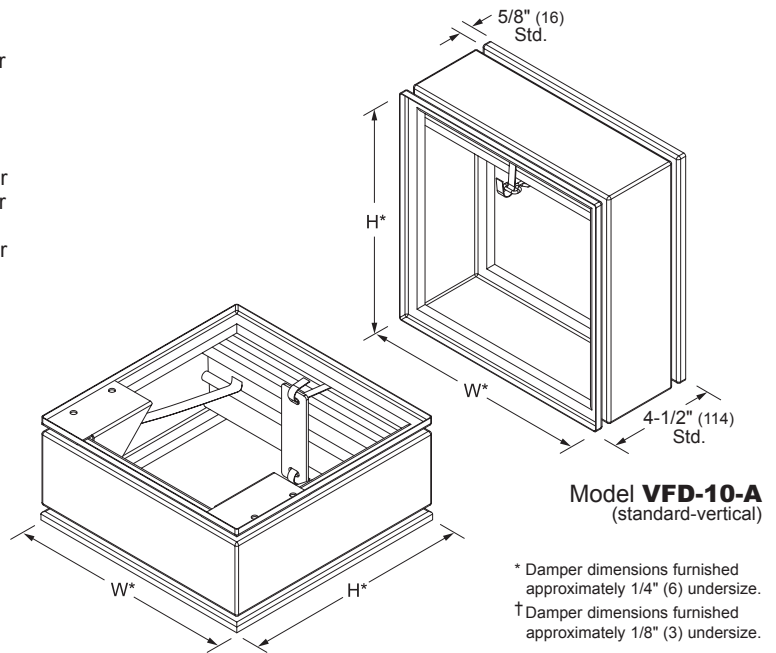
UL 555 listing: R11767

CSFM listing: 3225-0368:101

New York City MEA listing: 295-98-E

Meets NFPA Standards: 90A, 92A, 92B and 101

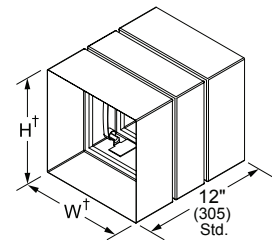
Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC



Model **VFD-10-A**
(standard-vertical)

Model **VFD-10-A**
(standard-horizontal)

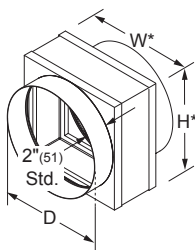
* Damper dimensions furnished approximately 1/4" (6) undersize.
† Damper dimensions furnished approximately 1/8" (3) undersize.



Sleeve Style ISA (optional)

Round Transitions

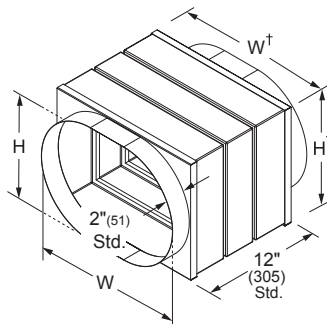
(Standard with D=W=H.
Available with D<W and H)



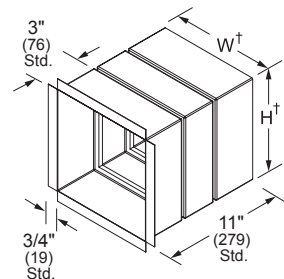
Style AR (optional)

Oval Transitions

(Standard with W and H equal to damper width and height dimensions.
Available with W and H smaller than damper width and height)

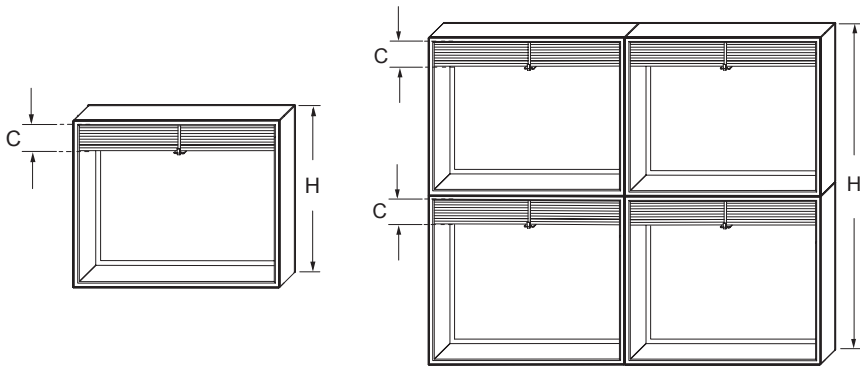


Sleeve Style ISAO (optional)

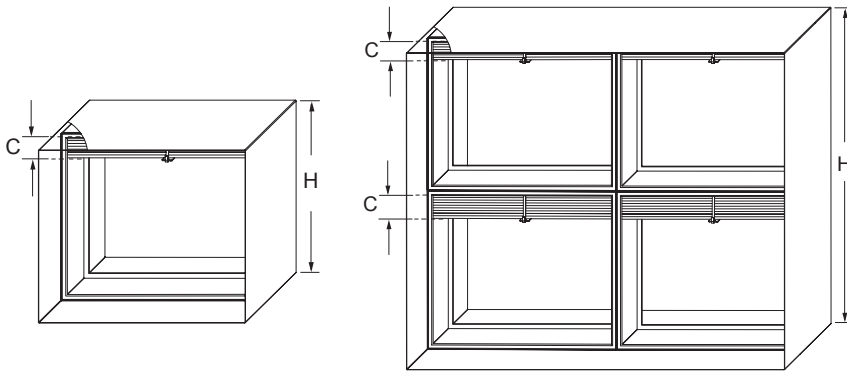


Sleeve Style ISAF (optional)
With standard flange.
(Typical for use with grille.)

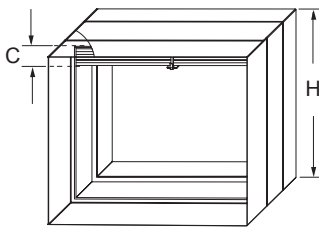
Blade Stack Dimensional Data



Framed Unit — No Sleeve
(Multiple section units supplied as individual dampers for field assembly)



Sleeve Style S — Common Sleeve
(Multiple section units supplied as a single assembly)



Sleeve Style IS — Integral Sleeve

Single Section

Nominal Duct Height 'H'	Blade Stack Height 'C'
4" (102)	1-1/16" (27)
5" (127)	1-1/16" (27)
6" (152)	1-1/16" (27)
7" (178)	1-3/16" (30)
8" (203)	1-3/16" (30)
9" (229)	1-3/16" (30)
10" (254)	1-7/16" (37)
11" (279)	1-7/16" (37)
12" (305)	1-7/16" (37)
13" (330)	1-9/16" (40)
14" (356)	1-9/16" (40)
15" (381)	1-13/16" (46)
16" (406)	1-13/16" (46)
17" (432)	1-13/16" (46)
18" (457)	1-15/16" (49)
19" (483)	1-15/16" (49)
20" (508)	2-3/16" (56)
21" (533)	2-3/16" (56)
22" (559)	2-3/16" (56)
23" (584)	2-5/16" (59)
24" (610)	2-5/16" (59)
25" (635)	2-9/16" (65)
26" (660)	2-9/16" (65)
27" (686)	2-9/16" (65)
28" (711)	2-11/16" (68)
29" (737)	2-11/16" (68)
30" (762)	2-15/16" (75)
31" (787)	2-15/16" (75)
32" (813)	2-15/16" (75)
33" (838)	3-1/16" (78)
34" (864)	3-1/16" (78)
35" (889)	3-5/16" (84)
36" (914)	3-5/16" (84)
37" (940)	3-5/16" (84)
38" (965)	3-7/16" (87)
39" (991)	3-7/16" (87)
40" (1016)	3-11/16" (94)
41" (1041)	3-11/16" (94)
42" (1067)	3-11/16" (94)
43" (1092)	3-13/16" (97)
44" (1118)	3-13/16" (97)
45" (1143)	4-1/16" (103)
46" (1168)	4-1/16" (103)
47" (1194)	4-1/16" (103)
48" (1219)	4-3/16" (106)

Multiple Section

Nominal Duct Height 'H'	Blade Stack Height 'C'
41" (1041)	2-3/16" (56)
42" (1067)	2-3/16" (56)
43" (1092)	2-3/16" (56)
44" (1118)	2-3/16" (56)
45" (1143)	2-3/16" (56)
46" (1168)	2-5/16" (59)
47" (1194)	2-5/16" (59)
48" (1219)	2-5/16" (59)
49" (1245)	2-5/16" (59)
50" (1270)	2-9/16" (65)
51" (1295)	2-9/16" (65)
52" (1321)	2-9/16" (65)
53" (1346)	2-9/16" (65)
54" (1372)	2-9/16" (65)
55" (1397)	2-9/16" (65)
56" (1422)	2-11/16" (68)
57" (1448)	2-11/16" (68)
58" (1473)	2-11/16" (68)
59" (1499)	2-11/16" (68)
60" (1524)	2-15/16" (75)
61" (1549)	2-15/16" (75)
62" (1575)	2-15/16" (75)
63" (1600)	2-15/16" (75)
64" (1626)	2-15/16" (75)
65" (1651)	2-15/16" (75)
66" (1676)	3-1/16" (78)
67" (1702)	3-1/16" (78)
68" (1727)	3-1/16" (78)
69" (1753)	3-1/16" (78)
70" (1778)	3-5/16" (84)
71" (1803)	3-5/16" (84)
72" (1829)	3-5/16" (84)
73" (1854)	3-5/16" (84)
74" (1880)	3-5/16" (84)
75" (1905)	3-5/16" (84)
76" (1930)	3-7/16" (87)
77" (1956)	3-7/16" (87)
78" (1981)	3-7/16" (87)
79" (2007)	3-7/16" (87)
80" (2032)	3-11/16" (94)
81" (2057)	2-9/16" (64)
82" (2083)	2-9/16" (64)
83" (2108)	2-9/16" (64)
84" (2134)	2-11/16" (68)
85" (2159)	2-11/16" (68)
86" (2184)	2-11/16" (68)
87" (2210)	2-11/16" (68)
88" (2235)	2-11/16" (68)
89" (2261)	2-11/16" (68)
90" (2286)	2-15/16" (75)
91" (2311)	2-15/16" (75)
92" (2337)	2-15/16" (75)
93" (2362)	2-15/16" (75)
94" (2388)	2-15/16" (75)
95" (2413)	2-15/16" (75)
96" (2438)	2-15/16" (75)
97" (2464)	2-15/16" (75)
98" (2489)	2-15/16" (75)
99" (2515)	3-1/16" (78)
100" (2540)	3-1/16" (78)
101" (2565)	3-1/16" (78)
102" (2591)	3-1/16" (78)
103" (2616)	3-1/16" (78)
104" (2642)	3-1/16" (78)
105" (2667)	3-5/16" (84)
106" (2692)	3-5/16" (84)
107" (2718)	3-5/16" (84)
108" (2743)	3-5/16" (84)
109" (2769)	3-5/16" (84)
110" (2794)	3-5/16" (84)
111" (2819)	3-5/16" (84)
112" (2845)	3-5/16" (84)
113" (2870)	3-5/16" (84)
114" (2896)	3-7/16" (87)
115" (2921)	3-7/16" (87)
116" (2946)	3-7/16" (87)
117" (2972)	3-7/16" (87)
118" (2997)	3-7/16" (87)
119" (3023)	3-7/16" (87)
120" (3048)	3-11/16" (94)

Vertical Dampers Only

Vertical Dampers Only

Note: Vertical dampers exceeding 48" in width or height will be manufactured in sections not exceeding 40" x 40". Stainless steel vertical dampers exceeding 80" in width will be manufactured in sections not exceeding 36" x 24".

Dampers shown as vertical mount. Horizontal mount supplied in the same orientation.