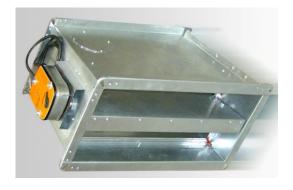




GMC FD-043 PRODUCT SPECIFICATIONS:

- Standard Material: Galvanized steel sheet with isolated damper cover.
- Prevents flame and smoke advancing at air ducting system, during a local fire.
- High resistance against corrosion.
- Two hours resistance at 1000°C.
- Installed on wall partitions/penetration holes where ducting pass through.
- Has four models: Standard Model (FD-143), Circular Model (FD-243), Servo-motorized Model (FD-343), Servo-motorized Circular Model (FD-443).
- Manufactured with electrical driven spring return actuator including electro thermal fuse set at 72°C (+/- 4 °C), or manufactured with manual including mechanical thermal fuse set at 72°C (+/- 4 °C).



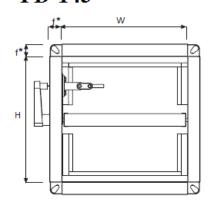


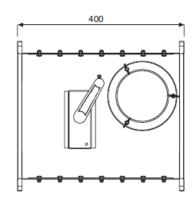




TECHNICAL DETAILS

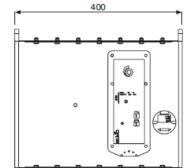
FD-143





Standard Sizes







1200

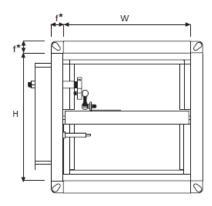
1400

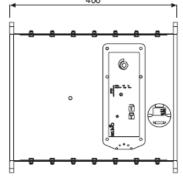
1600

1800

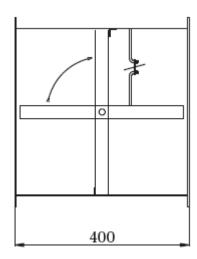
f (mm)
35

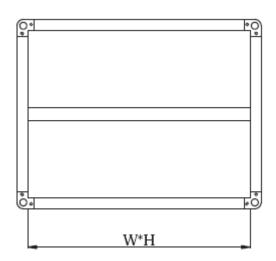
FD-343





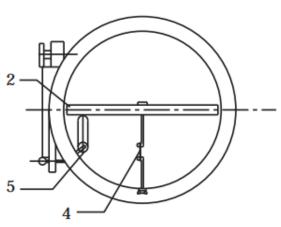
35mm flange is used when any size of H or W is above 1000mm.

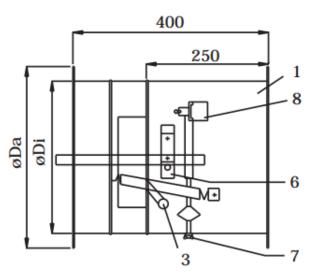






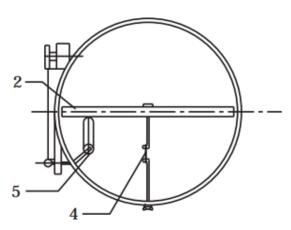
FD-243/443 WITH FLANGE

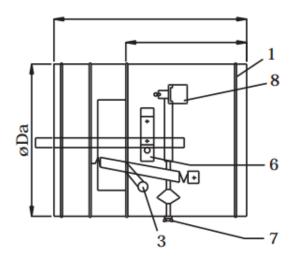




- 1- Chassis
- 2- Damper Blade
- 3- Manual Lever
- 4- Thremal Release (fusable link 72°C)
- 5- Tension Spring
- 6- Mechanical Interlock
- 7- Tensioning Nut
- 8- Electrical Cut-Out Switch (on request)

FD-243/443 WITHOUT FLANGE









WITHOUT FLANGE

Standard sizes (mm)	øDa
150	148
200	198
250	248
300	298
350	348
400	398
450	448
500	498
600	598

WITH FLANGE

Standard sizes (mm)	øDa	øDi
700	760	700
800	860	800
900	960	900
1000	1060	1000
1250	1310	1250

FD-143/343, EFFECTIVE AREA TABLE (m²)

W (mm)															
		200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
	150 Aeff f	0,012	0,025	0,034	0,044	0,053	0,063	0,073	0,082	0,092	0,101	0,111	0,121	0,130	0,140
		0,95	0,90	0,90	0,85	0,80	0,80	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
	200 Aeff f	0,022	0,041	0,055	0,070	0,084	0,099	0,114	0,128	0,143	0,157	0,172	0,187	0,201	0,216
	Aeff f	1,00	0,90	0,90	0,85	0,80	0,80	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
	300 Aeff f	0,040	0,068	0,093	0,118	0,142	0,167	0,191	0,216	0,241	0,265	0,290	0,314	0,339	0,364
	Aeff f	1,20	1,00	0,95	0,90	0,90	0,85	0,82	0,80	0,80	0,80	0,80	0,80	0,80	0,80
н	300 Aeff f	0,058	0,096	0,131	0,165	0,200	0,235	0,269	0,304	0,338	0,373	0,408	0,442	0,477	0,511
mm)	Aeff f	1,30	1,10	1,00	0,95	0,92	0,90	0,85	0,85	0,85	0,85	0,85	0,80	0,80	0,80
,,	500 Aeff f	0,075	0,124	0,169	0,213	0,258	0,302	0,347	0,392	0,436	0,481	0,525	0,570	0,615	0,659
		1,40	1,20	1,10	1,00	0,95	0,92	0,90	0,90	0,85	0,85	0,80	0,80	0,80	0,80
	600	0,093	0,152	0,206	0,261	0,316	0,370	0,425	0,479	0,534	0,589	0,643	0,698	0,752	0,807
		1,60	1,40	1,20	1,10	1,00	0,95	0,95	0,95	0,90	0,90	0,85	0,85	0,80	0,80
	700	0,111	0,180	0,244	0,309	0,373	0,438	0,503	0.567	0,632	0,696	0,761	0,826	0,890	0,955
		1,70	1,45	1,30	1,20	1,10	1,00	1,00	0,95	0,90	0,90	0,85	0,85	0,85	0,85
		0,129	0,207	0,282	0,357	0,431	0,506	0,580	0,655	0,730	0,804	0,879	0,953	1,028	1,103
	800	1,80	1,60	1,40	1,30	1,20	1,10	1,10	1,00	1,00	0,95	0,90	0,90	0,90	0,85

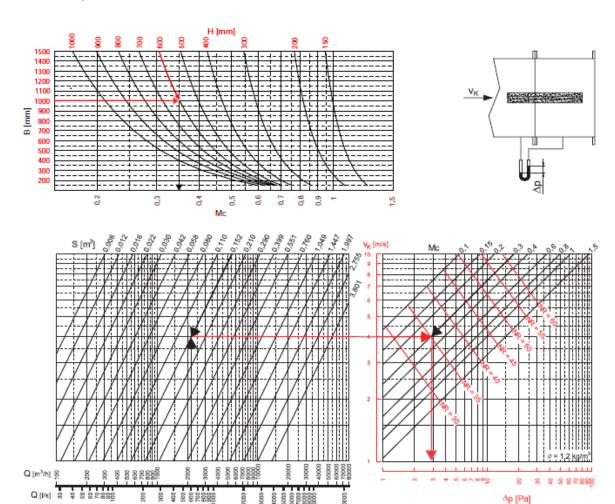
FD-243/443, EFFECTIVE AREA TABLE (m²)

Ø D (mm)	150	200	250	300	350	400	500	600	700	800	900	1000
Aeff [m²]	0,012	0,024	0,040	0,059	0,083	0,111	0,178	0,260	0,359	0,473	0,602	0,748





FD-043, PRESSURE DROP AND NOISE LEVELS



[m³/h][l/s]airflow rate - Q [m/s]air velocity free surface - 5 shape coefficient - Mc - ΔP [Pa] pressure loss

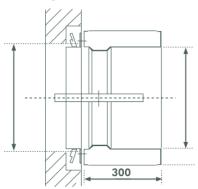
- NR noise rate (ISO standard, referred to 10^{-12}) without considering the room attenuation



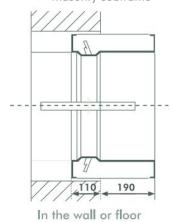


MOUNTING DETAIL

FD-143

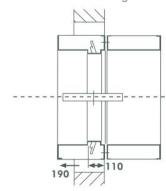


Against wall or floor with masonry subframe



110 190

In the wall or floor with addional casing



In the wall or floor, duct connection

ORDER PARAMETERS:

FD-043	F00	01	L1200	N 1	.000X700
FD-143: Rectangular, 72'C					
thermal fuse					N: Neck Size
FD-243: Circular, 72'C					D: Neck Diameter
thermal fuse					
FD-343: Rectangular, Servo-					
motorized/spring back				L: Request	ed Product Length
FD-443: Circular, Servo-					
motorized/spring back					
F00: No Flange			0	0: Standar	d Duct Connection
F30: Flange Width = 30mm				01: Throug	h Wall Connection
F35: Flange Width = 35mm					

