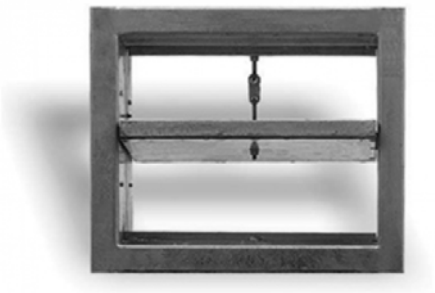
YD143 - FIRE DAMPER
PRISMATIC SINGLE WIND, FUSIBLE LINK



Fire Damper
YD143

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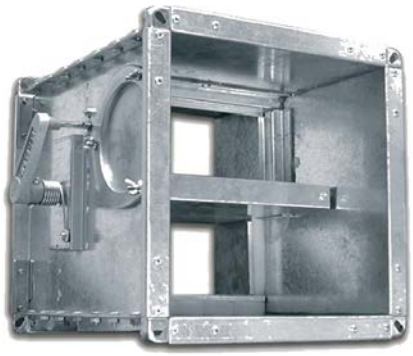

DESCRIPTION:

YD143 fire dampers designed to prevent spreading of fire from the nearby zones in ventilating systems. Mounting on rectangular and circular ducts specially fire zones. As mounting on ventilation ducts, the dampers can be used on brick and concrete walls.

MATERIAL :

Galvanized Metal Sheet

Start and stop handle:Zamak casting Outer structure and cover:1,5mm galvanized sheet Cover walls space:Air-conditioning plate of 2,5cm insulation wool and 50kg/m³ density.

APPLICATIONS :

At wall connections as split seperators of air-conditioning systems and also related ducts installed at locations exposing fire. It prevents spreading of any fire in the building into closer locations and helps for extinguishing fire by closing any ventilation systems. An optional alarm switch is used to stop air conditioning ducts.

FUNCTION:

- They are made from galvanised sheet body and single blade.
- Moving blades are made from double walled galvanised sheet and between the walls insulation material is used.
- Between blade and body there are fireproof sealing.
- Fusible link (72ºC)
- Spring return actuator can be usable which will close the damper by a signal from fire panel.
- Pneumatic applications are also avaiable.
- Damper casing made with universal 25 mm or 35mm flanges as a standard.
- When the damper will be mounted on kitchen walls 92ºC fusible link is used.

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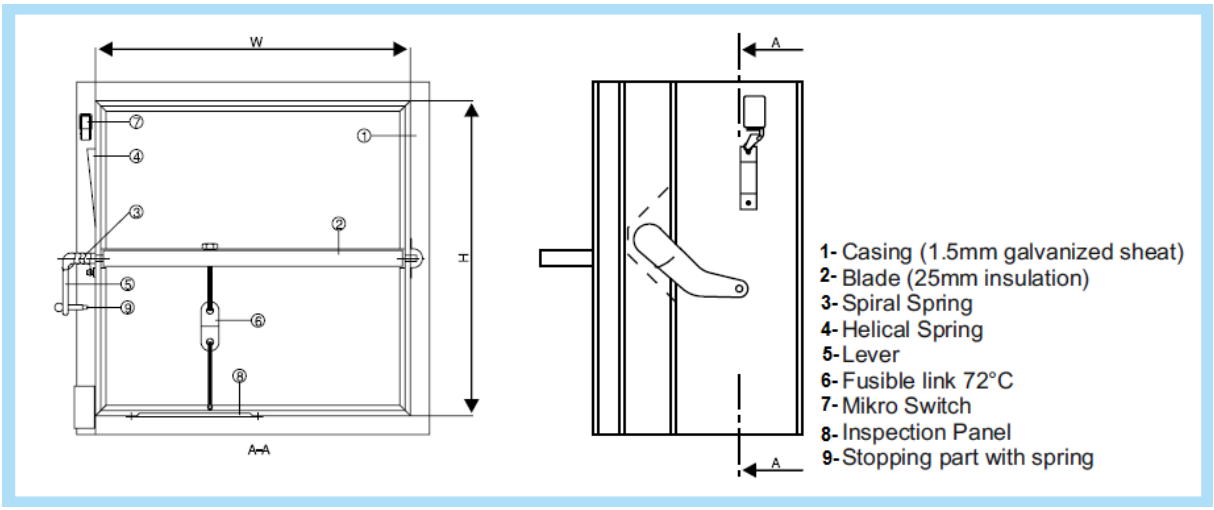
STANDARD SIZES (mm):

AVAILABLE SIZES (mm) - Always width x height								
	WIDHT							
HEIGHT	100	200	300	400	500	600	700	800
200	X	X	X	X	X	X	X	X
300	X	X	X	X	X	X	X	X
400	X	X	X	X	X	X	X	X
500	X	X	X	X	X	X	X	X
600	X	X	X	X	X	X	X	X
700	X	X	X	X	X	X	X	X
800	X	X	X	X	X	X	X	X
900	X	X	X	X	X	X	X	X
1000	X	X	X	X	X	X	X	X
1100	X	X	X	X	X	X	X	X
1200	X	X	X	X	X	X	X	X
1300	X	X	X	X	X	X	X	X
1400	X	X	X	X	X	X	X	X
1500	X	X	X	X	X	X	X	X

DRAWING



SELECTION TABLES

EFFECTIVE AREA TABLE (m2)

		W (mm)													
		200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
H (mm)	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
	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
	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
	800	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
		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

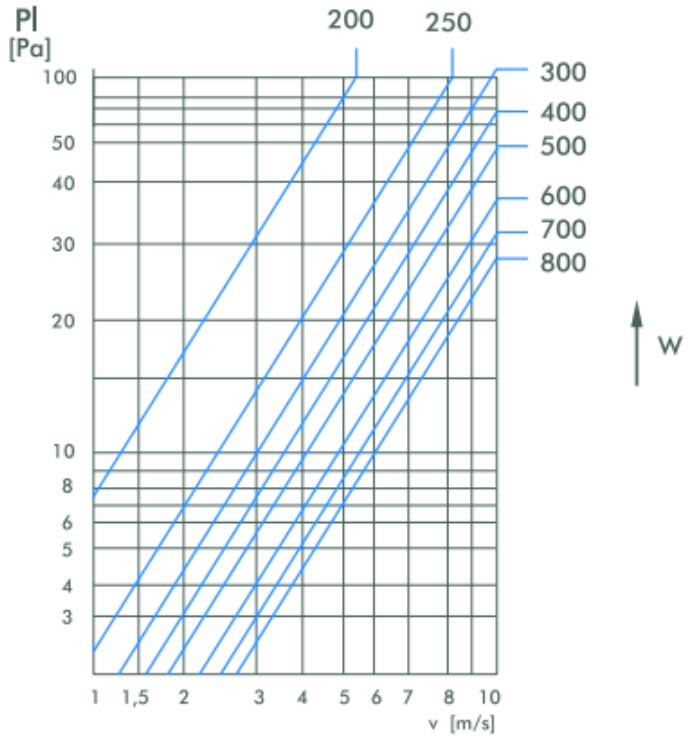
PRESSSURE LOSS DIAGRAM

Pt = Pl*f

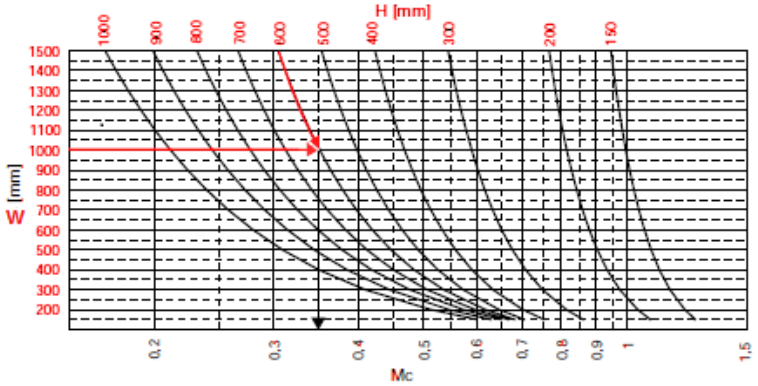
Pt = Corrected pressure loss [Pa]

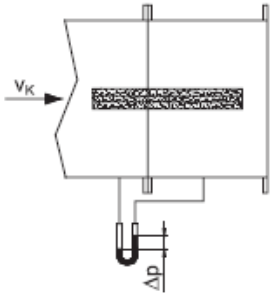
Pl = Pressure loss on the diagram [Pa]

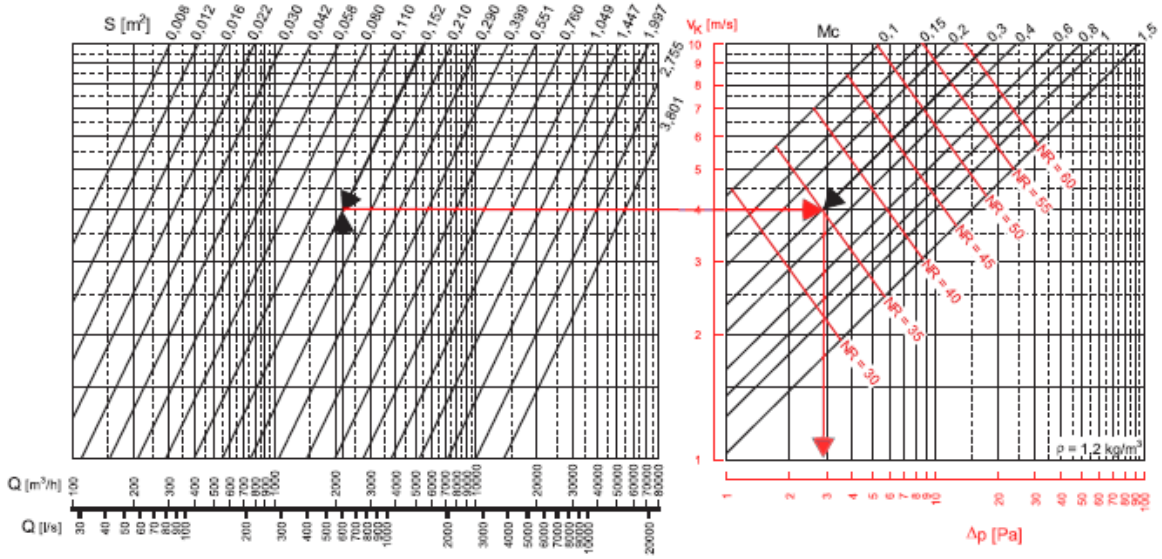
f = Pressure correction factor



PRESSURE DROP AND NOISE LEVELS

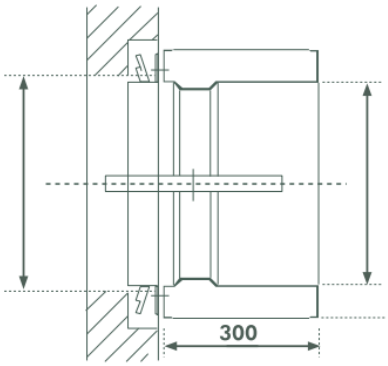




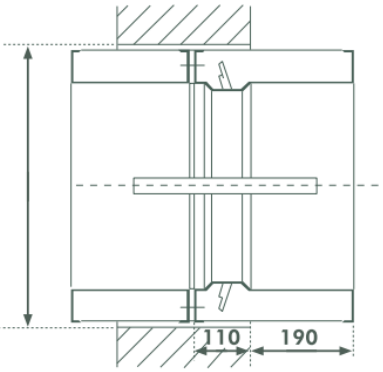


- Q [m³/h] [l/s] airflow rate
- V_k [m/s] air velocity
- S [m²] free surface
- Mc shape coefficient
- ΔP [Pa] pressure loss
- NR noise rate (ISO standard, referred to 10^{-12}) without considering the room attenuation

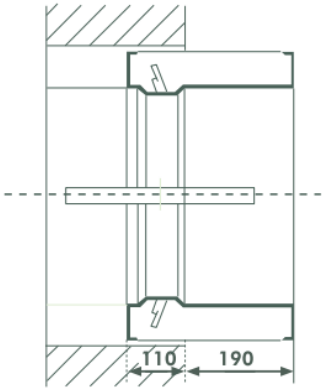
Installation & Assembly



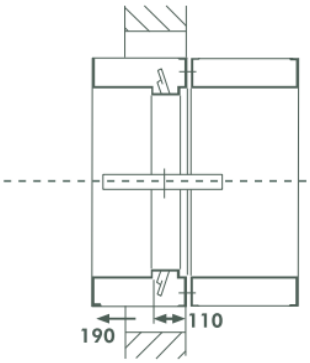
Against wall or floor with masonry subframe



In the wall or floor with addional casing



In the wall or floor



In the wall or floor, duct connection

ORDER CODE

YD-143	F25	01	L1200	N 1000X700
FD-143: Rectangular, 72°C thermal fuse **FD-144:** Rectangular, 100°C thermal fuse	**F00: No Flange** **F25: Flange Width = 25mm** **F30: Flange Width = 30mm**	**00: Standard Duct Connection** **01: Through Wall Connection**	**S: Standad (H+50mm)** **L: Requested Product Length (custom choice)**	**WXH** **N: Neck Size**