

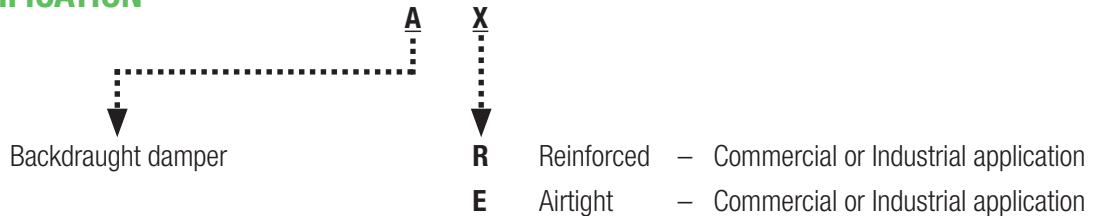
BACKDRAUGHT DAMPER

HIGH PRESSURE - AR / AE

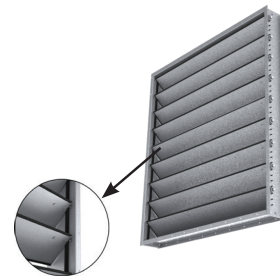
Backdraught damper AR / AE is designed for a one-way air flow direction. The blades prevent reverse flow in the ventilation ductworks.

- AR : Reinforced backdraught damper to withstand up to 1000 Pa
- AE : Shut-off backdraught damper equipped with gaskets on the blades

CODIFICATION



BACKDRAUGHT DAMPER AR



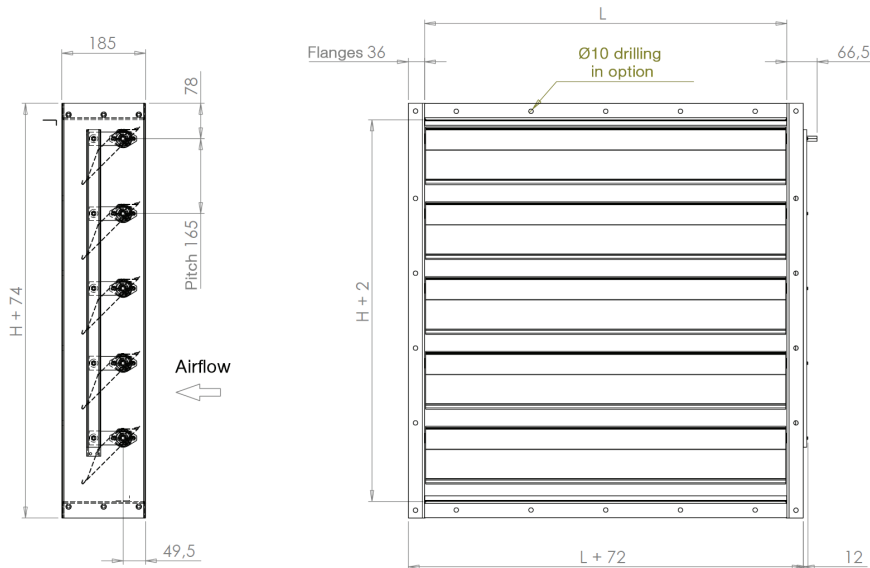
BACKDRAUGHT DAMPER AE

		Characteristics AR	Characteristics AE	Options
Construction	Frame	Galvanized steel sheet, thickness 2.0 mm Width 185 mm Flanges 36 mm		Stainless steel 316L or 304L Aluminum Painted steel Drilling according to FT 2.4.5.1
	Drilling	Ø10 mm in the angles		Special drilling
	Blades	Aluminum 2 x 1 mm + 2 mm	Galvanized steel 2 x 0,8 mm + 2 mm	Stainless steel 304L or 316L Galvanized or painted steel
	Bearings	Nylon		Teflon, bronze
	Shaft	Zinc coated steel - Ø12 mm		
	Linkage	Linkage in zinc-coated steel		Stainless steel 304L or 316L
Gaskets			EPDM	Silicone on AE type only
Leakage rate			75 m³/h under 1000 Pa in counter pressure. Backdraught damper : 1000 x 1005	Frame's airtightness class C according to EN 1751
Acceptable pressure		1000 Pa for a length of 1 m	1800 Pa for a length of 1 m	
Operating temperature		From -20° to +80°C		From -30° to +200°C
Operating velocity		From 5 to 15 m/s		
Miscellaneous				Air flow from bottom to top (horizontal position possible)

BACKDRAUGHT DAMPER HIGH PRESSURE - AR/AE

DIMENSIONS

- Height : from 180 mm to 1500 mm with a pitch of 165 mm
- Length : from 200 mm to 1500 mm with a pitch of 100 mm

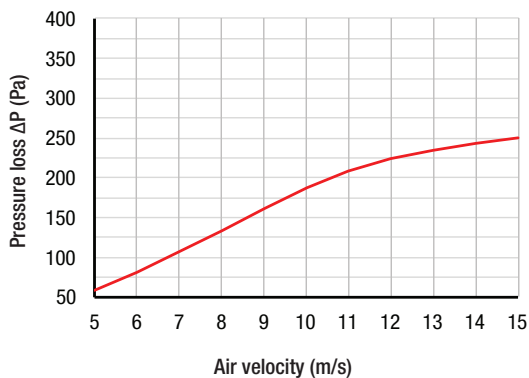


WEIGHT (kg)

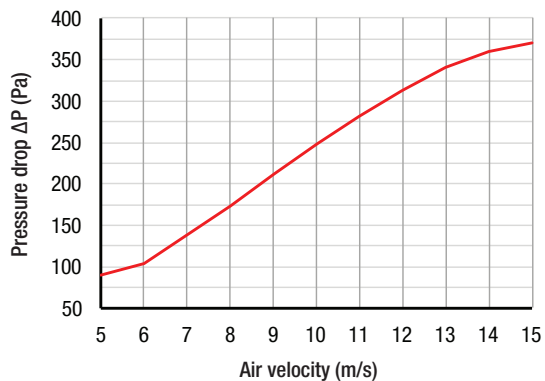
H \ L	200	400	600	800	1000	1200	1400	1500
180	7	9	11	13	16	18	20	21
510	13	16	19	22	25	28	31	33
675	16	19	23	26	29	33	36	38
840	18	22	26	30	34	38	42	44
1170	24	29	34	38	43	48	53	55
1500	30	35	41	47	52	58	63	66

PRESSURE LOSS

Backdraught damper AR

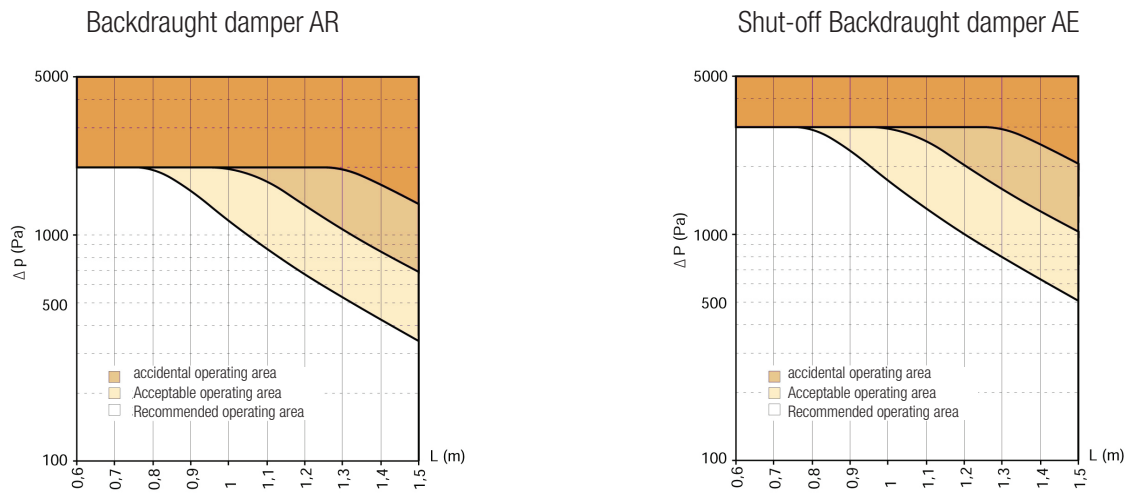


Shut-off Backdraught damper AE

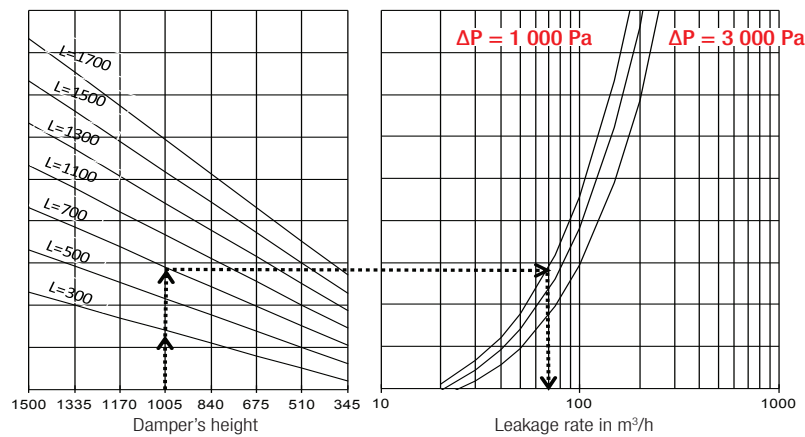


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OPERATING LIMITS



BLADES' LEAKAGE RATE FOR AE DAMPER



ΔP is the downstream/upstream differential pressure when the backdraught damper is closed.

Example :

$\Delta P = 1000 \text{ Pa}$

Backdraught damper $H = 1005 \times L = 700$

Leakage rate $< 70 \text{ m}^3/\text{h}$

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