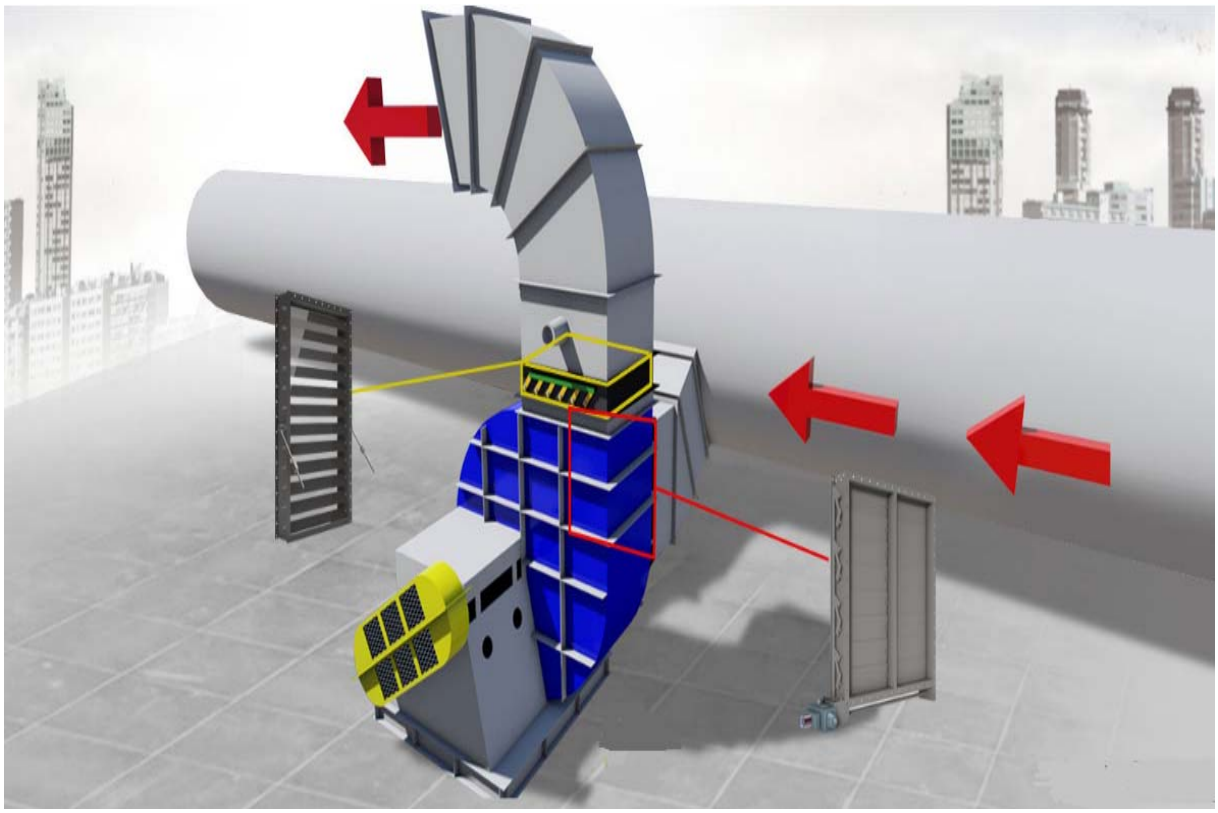
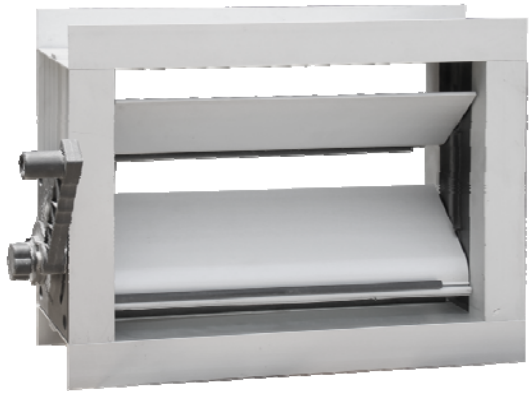
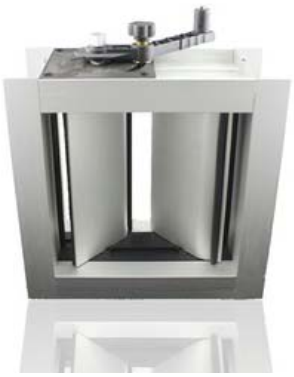




Airtight Multi-Leaf Damper
AMD



DESCRIPTION:

These Volume Control Dampers are suitable for regulating or shutting off the air flow in air ducts with rectangular or square cross sections. The blades are manufactured from aluminum profiles and the frame is produced from aluminum. The blade action is realized with the help of gears by a linkage mechanism. All of the dampers are produced either with damper actuators or with actuator bases or with a manual locking quadrant

MATERIAL :

Frama and Blade made of Aluminum

FUNCTION :

- Multileaf dampers of Type AMD are used as an acting element in the volume flow and pressure control in air conditioning systems
- For low-leakage shut-off of ducts and openings in walls and ceiling slabs
- Powder-coated construction
- Aerofoil blades
- Low-maintenance, robust construction
- No parts with silicone
- Available in standard sizes and many intermediate sizes
- Closed cell side seals meet increased hygiene requirements

INSTALLATION :

- Screw

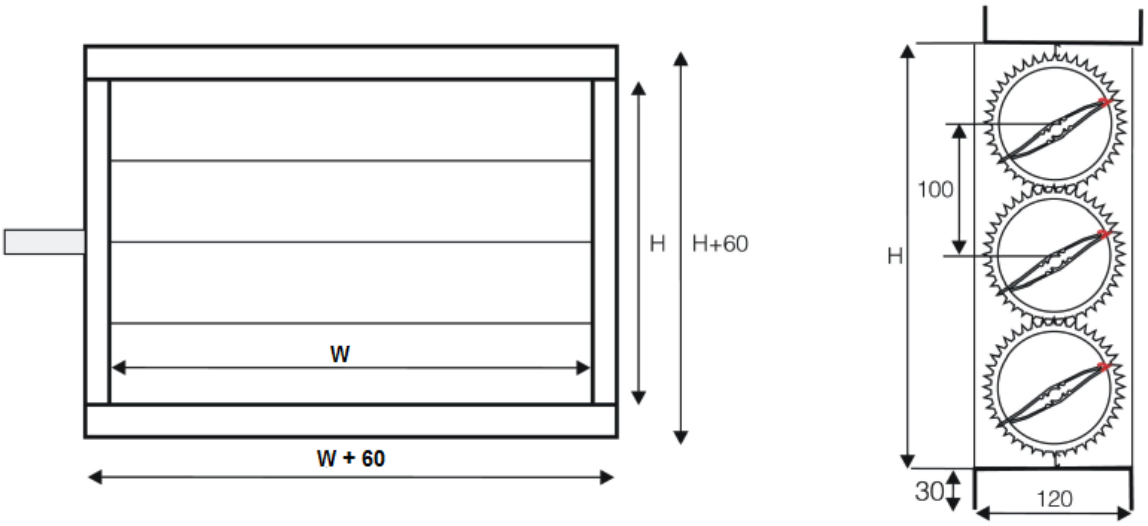
CLASSIFICATION :

- Closed blade air leakage to EN 1751
- Test pressure up to 2000 Pa
- Class 2

STANDARD SIZES (mm):

AVAILABLE SIZES (mm) - Always width x height												
	WIDHT											
HEIGHT	200	300	400	500	600	800	1000	1200	1400	1600	1800	2000
105	X	X	X	X	X	X	X	X	X	X	X	X
205	X	X	X	X	X	X	X	X	X	X	X	X
305	X	X	X	X	X	X	X	X	X	X	X	X
405	X	X	X	X	X	X	X	X	X	X	X	X
505	X	X	X	X	X	X	X	X	X	X	X	X
605	X	X	X	X	X	X	X	X	X	X	X	X
705	X	X	X	X	X	X	X	X	X	X	X	X
805	X	X	X	X	X	X	X	X	X	X	X	X
905	X	X	X	X	X	X	X	X	X	X	X	X
1005	X	X	X	X	X	X	X	X	X	X	X	X
1105	X	X	X	X	X	X	X	X	X	X	X	X
1205	X	X	X	X	X	X	X	X	X	X	X	X
1305	X	X	X	X	X	X	X	X	X	X	X	X
1405	X	X	X	X	X	X	X	X	X	X	X	X
1505	X	X	X	X	X	X	X	X	X	X	X	X
1605	X	X	X	X	X	X	X	X	X	X	X	X
1705	X	X	X	X	X	X	X	X	X	X	X	X

DRAWING



SELECTION TABLES

Flow rate	Size [LxH]	800x500		1000x500		1500x500		800x800		1000x800		1200x800		1500x800		1200x1200		1500x1200		1800x1200		2000x1200		2200x1200	
(m³/h)	α [°]	0	45	0	45	0	45	0	45	0	45	0	45	0	45	0	45	0	45	0	45	0	45	0	45
1000	Veff [m/s]	1.3	3.7																						
	ΔPt [pa]	1.3	8.8																						
1500	Veff [m/s]	1.9	5.5																						
	ΔPt [pa]	2.5	19.4																						
2000	Veff [m/s]	2.5	7.4																						
	ΔPt [pa]	4.2	34.3																						
2500	Veff [m/s]	3.1	9.2																						
	ΔPt [pa]	6.5	53.5																						
3000	Veff [m/s]	3.8	11.1	1.9	5.5																				
	ΔPt [pa]	9.2	76.8	2.5	19.4																				
3500	Veff [m/s]	4.4	12.9	2.2	6.5																				
	ΔPt [pa]	12.4	104.5	3.3	26.3																				
4000	Veff [m/s]	5.0	14.8	2.5	7.4																				
	ΔPt [pa]	16.1	136.4	4.2	34.3																				
4500	Veff [m/s]	5.7	16.6	2.8	8.3	1.9	5.5																		
	ΔPt [pa]	20.3	172.5	5.3	43.4	2.5	19.4																		
5000	Veff [m/s]	6.3	18.4	3.1	9.2	2.1	6.2																		
	ΔPt [pa]	25.0	212.9	6.5	53.5	3.0	23.9																		
5500	Veff [m/s]			3.5	10.1	2.3	6.8																		
	ΔPt [pa]			7.8	64.6	3.6	28.9																		
6000	Veff [m/s]			3.8	11.1	2.5	7.4																		
	ΔPt [pa]			9.2	76.8	4.2	34.3																		
6500	Veff [m/s]			4.1	12.0	2.7	8.0																		
	ΔPt [pa]			10.7	90.1	4.9	40.2																		
7000	Veff [m/s]			4.4	12.9	2.9	8.6																		
	ΔPt [pa]			12.4	104.5	5.7	46.6																		
7500	Veff [m/s]					3.1	9.2																		
	ΔPt [pa]					6.5	53.5																		
8000	Veff [m/s]					3.4	9.8																		
	ΔPt [pa]					7.3	60.8																		
8500	Veff [m/s]					3.6	10.5																		
	ΔPt [pa]					8.2	68.6																		
10000	Veff [m/s]							5.0	14.6	4.0	11.7	3.3	9.7	2.7	7.8	2.2	6.5								
	ΔPt [pa]							15.7	132.8	1.0	85.1	0.7	59.2	4.7	38.0	3.4	26.8								
11000	Veff [m/s]							5.5	16.0	4.4	12.8	3.6	10.7	2.9	8.5	2.4	7.2								
	ΔPt [pa]							18.9	160.6	12.2	102.9	8.6	71.5	5.6	45.9	4.0	32.3								
15000	Veff [m/s]									6.0	17.5	5.0	14.6	4.0	11.7	3.3	9.8	2.7	7.8	2.2	6.5	2.0	5.9		
	ΔPt [pa]									22.4	191.1	15.7	132.8	10.1	85.1	7.2	59.9	4.7	38.4	3.4	26.8	2.8	21.7		
16000	Veff [m/s]									6.4	18.6	5.3	15.5	4.2	12.4	3.6	10.4	2.8	8.3	2.4	6.9	2.1	6.3	1.9	5.6
	ΔPt [pa]									25.5	217.3	17.8	151.1	11.5	96.8	8.2	68.1	5.3	43.7	3.8	30.4	3.1	24.7	2.5	20.1
17000	Veff [m/s]									6.8	19.8	5.6	16.5	4.5	13.2	3.8	11.1	3.0	8.9	2.5	7.4	2.3	6.6	2.0	6.0
	ΔPt [pa]									28.7	245.3	20.0	170.4	12.9	109.2	9.2	76.8	6.0	49.3	4.2	34.3	3.5	27.8	2.9	22.5
18000	Veff [m/s]											6.0	17.5	4.8	14.0	4.0	11.7	3.2	9.4	2.7	7.8	2.4	7.0	2.1	6.3
	ΔPt [pa]											22.4	191.1	14.5	122.4	10.3	86.1	6.7	55.2	4.7	38.4	3.9	31.2	3.2	25.4
20000	Veff [m/s]											6.6	19.4	5.3	15.5	4.4	13.0	3.6	10.4	3.0	8.7	2.7	7.8	2.4	6.2
	ΔPt [pa]											27.6	235.8	17.8	151.0	12.6	106.2	8.2	68.1	5.8	47.4	4.7	38.4	3.8	31.1
30000	Veff [m/s]															6.7	19.5	5.3	15.6	4.4	13.0	4.0	11.7	3.6	10.5
	ΔPt [pa]															28.0	238.5	18.0	152.8	12.6	106.2	10.3	86.1	8.4	69.8
35000	Veff [m/s]																	6.2	18.2	5.2	15.2	4.7	13.7	4.2	12.3
	ΔPt [pa]																	24.4	207.8	17.0	144.4	13.8	117.0	11.2	94.8
40000	Veff [m/s]																			5.9	17.4	5.3	15.6	4.8	14.1
	ΔPt [pa]																			22.1	188.5	18.0	152.8	14.7	123.9
45000	Veff [m/s]																			6.7	19.5	6.0	17.6	5.4	15.8
	ΔPt [pa]																			28.0	238.5	22.7	193.3	18.4	156.7

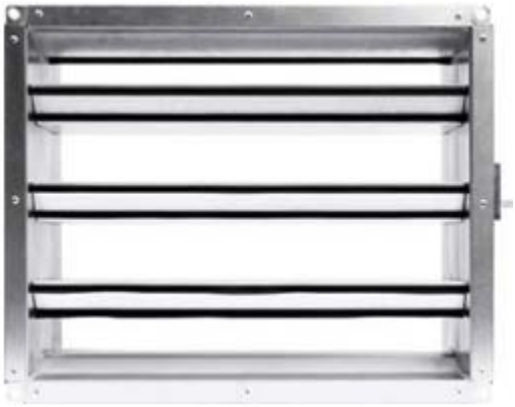
Annotation

*α [°] - Closing angle of the blades
*Veff[m/s] - Air velocity through the damper
*ΔPt [pa] - Pressure loss
*Veff [m/s] = Air flow [mc/h] / 3600[s] / Ak[m²]

Damper Blade Position

Closed Position

%50 Open

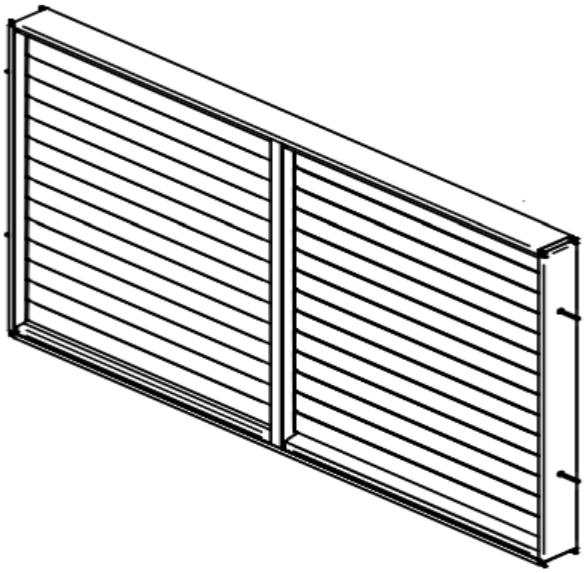


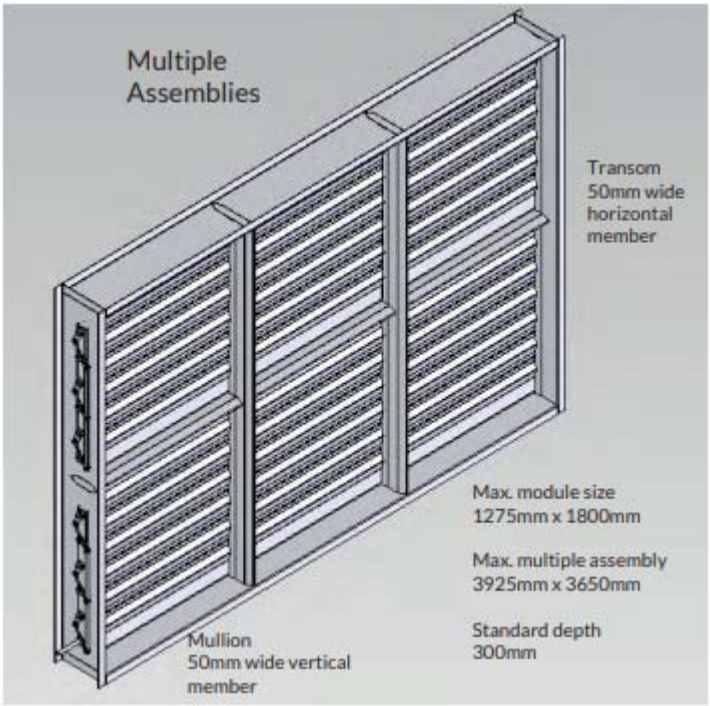
%100 Open

Installation & Assembly

Larger dampers can be constructed by joining multiple assemblies together. An approved fire-resistant sealant should be inserted between the damper and duct to ensure a good seal.

Each section shall have a drive spindle which can be linked together externally or driven independently





ORDER CODE

AMD -	S	00	00	N 505x500
				N: Neck Size F: Frame Size
			00: No Mounting SM: Screw Mounting	
	A: Aluminum (Standard) G: Galvanized Metal Sheet (Optional)			
		00: No coating RAL----: Powder Coating		