



Airtight multi-leaf Damper Performance Data

Flow rate (m³/h)	Size [LxH] α [°]	800x500		1000x500		1500x500		800x800		1000x800		1200x800		1500x800		1200x1200		1500x1200		1800x1200		2000x1200		2200x1200	
		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]

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