



MANN+HUMMEL Two-way ventilation air cleaners for crankcases, gear unit housings and hydraulic tanks

MANN+HUMMEL Silencer air cleaners

Air cleaners for two-way ventilation

The two-way ventilation air cleaners from MANN+HUMMEL are single-stage air cleaners which are mainly used for the two-way ventilation of liquids in tanks and gear units. The cleaners are available as dry air cleaners and as oil-wetted cleaners.

Dry air cleaners offer a very high filtration performance of over 99.5%, but must be replaced when they are full of dirt. Oil-wetted air cleaners achieve a lower separation of only approx. 70%, but can be cleaned and re-used.

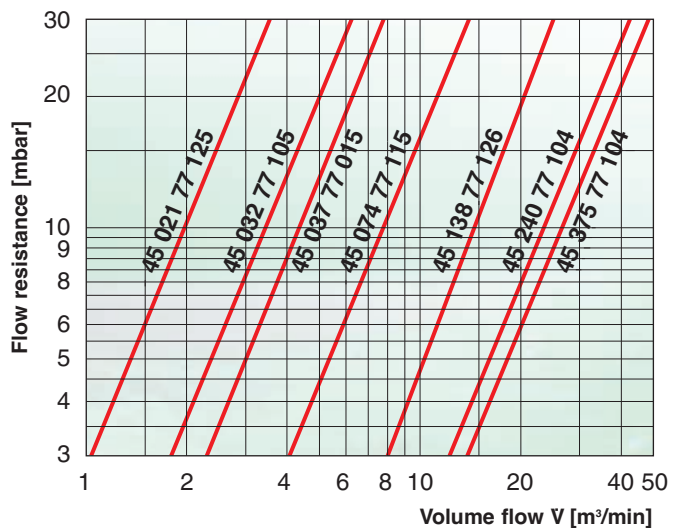
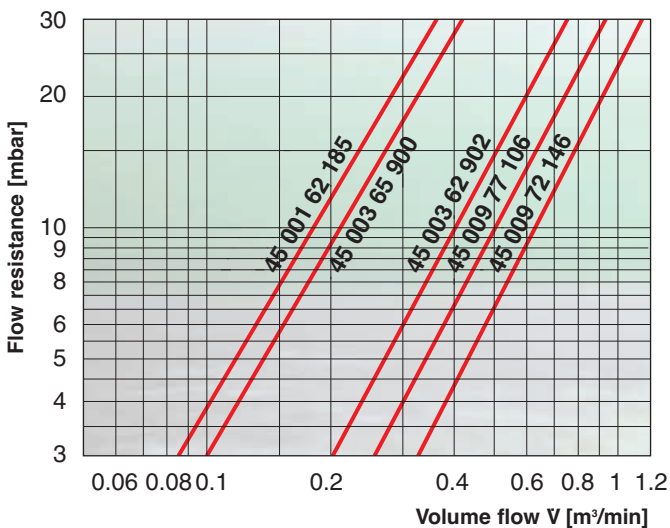
There are models available with an integrated pressure regulating valve. There is also the option of using the metal-free filters of the Picolino line (see page 67).



Two-way ventilation air cleaners (dry air cleaners)

Flow characteristics ...

... for flow rates as per ISO 5011



Two-way ventilation air cleaners (dry air cleaners)

Dimensions and part numbers

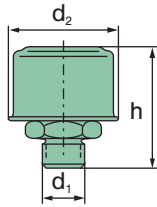


Fig. 1

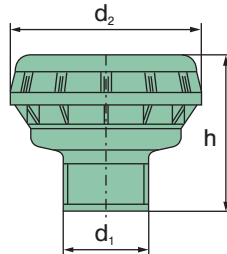


Fig. 2

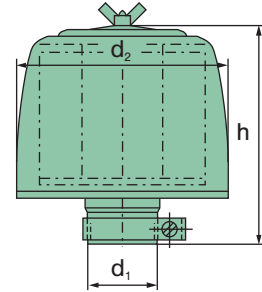


Fig. 3

Part No.	Fig.	Approx. nominal flow rate [m ³ /min]	Opening pressure		Dimensions in mm (dimensions in inches)			MANN-FILTER main element	Approx. weight [kg]
			[bar]	[kPa]	d ₁	d ₂	h		
45 001 62 185	1	–	–	–	M 18x1.5	45 (1.77)	47 (1.85)	– ¹⁾	0.08
45 003 65 900	2	–	–	–	35 (1.38)	80 (3.15)	65 (2.56)	– ¹⁾	0.06
45 003 62 902	2	–	–	–	G 3/4	80 (3.15)	73.5 (2.89)	– ¹⁾	0.08
45 003 62 900 ²⁾	2	0.2	0.85	85	G 3/4	80 (3.15)	73.5 (2.89)	– ¹⁾	0.1
45 003 62 901 ²⁾	2	0.2	0.35	35	G 3/4	80 (3.15)	73.5 (2.89)	– ¹⁾	0.1
45 009 72 146	3	0.5	–	–	M 26x1.5	98 (3.86)	110 (4.33)	C 75/4	0.3
45 009 77 106	3	0.5	–	–	20 (0.79)	98 (3.86)	110 (4.33)	C 75/4	0.3
45 021 77 125	3	2.0	–	–	40 (1.57)	132 (5.20)	120 (4.72)	C 1112	0.5
45 032 77 105	3	3.5	–	–	52 (2.05)	132 (5.20)	152 (5.98)	C 1132	0.65
45 037 77 015	3	4.5	–	–	60 (2.36)	170 (6.69)	175 (6.89)	C 1337	1.1
45 074 77 115	3	8.0	–	–	80 (3.15)	208 (8.19)	185 (7.28)	C 1574	1.3
45 138 77 126	3	15.0	–	–	100 (3.94)	283 (11.14)	200 (7.87)	C 21 138/1	7.0
45 240 77 104	3	23.0	–	–	140 (5.51)	318 (12.52)	302 (11.89)	C 26 240	9.0
45 375 77 104	3	32.0	–	–	180 (7.09)	396 (15.59)	285 (11.22)	C 30 375	11.0

¹⁾ The entire air cleaner is exchanged during a service.

²⁾ With integrated pressure regulating valve.

Two-way ventilation air cleaners (oil-wetted air cleaners)

Dimensions and part numbers

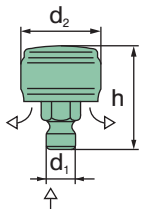


Fig. 1

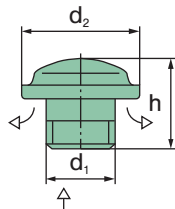


Fig. 2

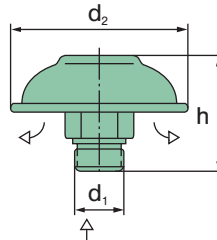


Fig. 3

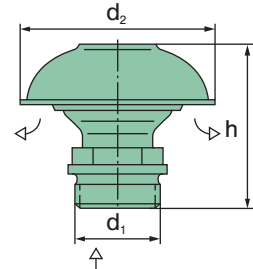


Fig. 4

Part No.	Fig.	Nominal flow rate ¹⁾ approx. [m ³ /min]	Dimensions in mm (<i>dimensions in inches</i>)			Approx. weight [kg]
			d ₁	d ₂	h	
41 001 62 112	4	0.1	M 30x1.5	60 (2.36)	42 (1.65)	0.06
41 002 62 102	4	0.2	M 26x1.5	60 (2.36)	50 (1.97)	0.09
41 004 62 102	3	0.4	M 16x1.5	76 (2.99)	62 (2.44)	0.15
41 004 62 201	2	0.4	M 45x1.5	76 (2.99)	76 (2.99)	0.25
42 001 62 103	1	0.1	M 12x1.5	30 (1.18)	37 (1.46)	0.04
42 001 62 142	3	0.1	M 20x1.5	50 (1.97)	42 (1.65)	0.03
42 001 62 173	1	0.1	M 10x1.0	30 (1.18)	35 (1.38)	0.04
42 002 62 112	2	0.2	M 18x1.5	50 (1.97)	27 (1.06)	0.03

¹⁾ The flow resistance of the oil-wetted air cleaner is $\Delta p = 10 \text{ mbar}$ (1 kPa).

Silencer air cleaners

Dimensions and part numbers

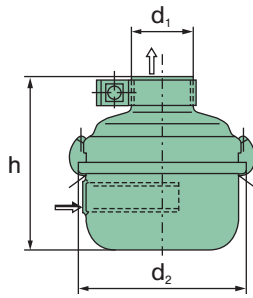


Fig. 1
Clamp connection

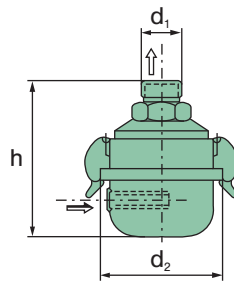
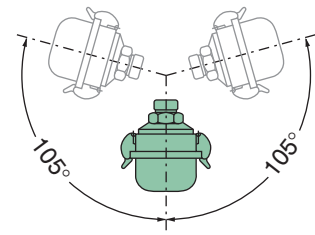


Fig. 2
Threaded connection



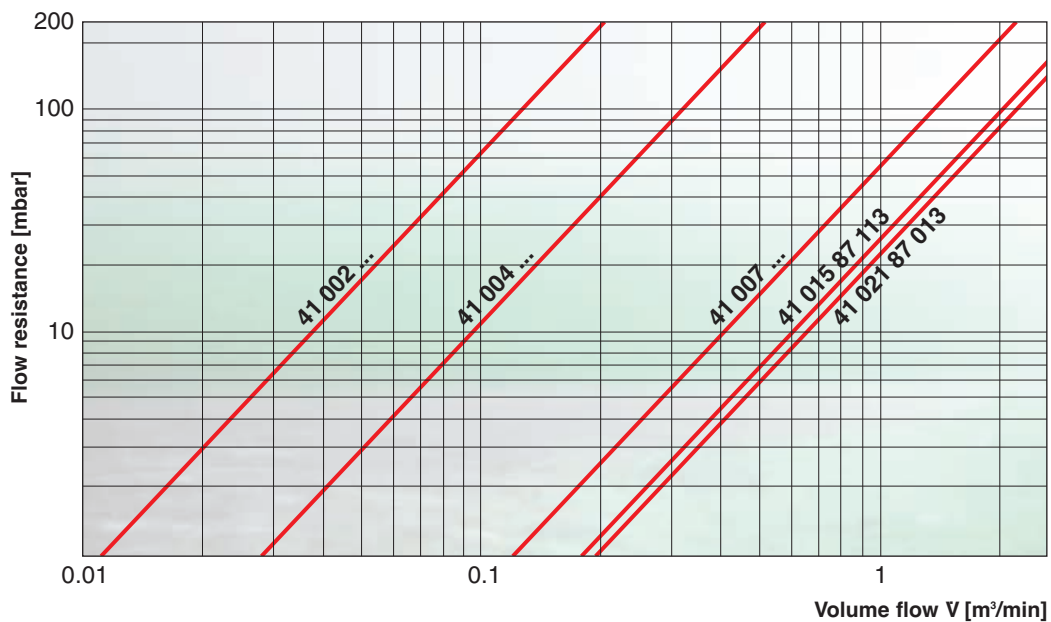
Range of possible
installation angles

Part No.	Fig.	Nominal flow rate ¹⁾ approx. [m ³ /min]	Dimensions in mm (<i>dimensions in inches</i>)				Approx. weight [kg]
			Silencer pipe	d ₁	d ₂	h	
41 007 87 103	1	0.8	with	25 (0.98)	82 (3.23)	88 (3.46)	0.2
41 007 87 113	1	0.8	with	30 (1.18)	82 (3.23)	85 (3.35)	0.2
41 010 87 113	1	1.3	with	35 (1.38)	98 (3.86)	97 (3.82)	0.3
41 015 87 113	1	2.0	with	40 (1.57)	118 (4.65)	120 (4.72)	0.5
41 021 87 013	1	2.2	with	52 (2.05)	138 (5.43)	130 (5.12)	0.5
41 004 82 123	2	0.33	without	M 22x1.5	66 (2.60)	74 (2.91)	0.2
41 004 82 183	2	0.33	with	G 1/2	66 (2.60)	84 (3.31)	0.2

¹⁾ With 100 mbar flow resistance.

Flow characteristics ...

... for flow rates as per ISO 5011



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