

AIRMOVER ADVANTAGES

Airmovers/Air amplifiers have the following features and characteristics:-

- ❖ They have no moving parts and are very safe
- ❖ When used with an effective filter they require no maintenance
- ❖ They are quiet in operation
- ❖ They have unobstructed bores
- ❖ Their output is variable by regulation of the supply air
- ❖ They can be instantly stopped or started
- ❖ No combustion hazard
- ❖ No electrical interference
- ❖ Both the inlet and outlet stages can be ducted, allowing fresh air to be drawn in, for the removal of fumes or conveying of small particles

ADVANTAGES OVER FANS

- ❖ More compact, simple, lightweight and portable
- ❖ Driven by air, not electricity
- ❖ No moving parts – hence safer and maintenance free
- ❖ Each end can be ducted

SOME SIMPLE AIRMOVER APPLICATIONS

- ❖ Drying wet surfaces
- ❖ Drying water based paints
- ❖ Blowing off and cleaning mechanical parts
- ❖ Cooling heat in moulds and ovens
- ❖ Extracting smoke and fumes e.g. in welding
- ❖ Venting fumes in tanks e.g. in ship cargo holds

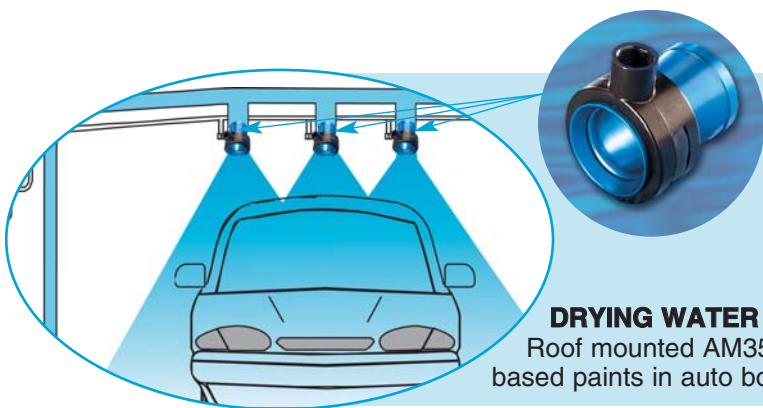
FOR FURTHER TECHNICAL DATA AND INFORMATION ON FLOW RATES PLEASE
CONTACT BRAUER TECHNICAL SALES DEPARTMENT.

FIXED GAP AIRMOVERS

BRAUER has been the leading manufacturer of fixed gap airmovers for 40 years, and these products form the core of our airmover product range. Other manufacturers have copied these products – a compliment to our air mover engineering design and success.

Our range of inexpensive fixed gap airmovers should provide a solution for the great majority of possible applications. However, our design engineers continue to develop our range, and we are also prepared to consider, the design and manufacture of special products to meet the customers specific requirements.

SOME TYPICAL APPLICATIONS – AIRMOVERS/AIR AMPLIFIERS



DRYING WATER BASED PAINTS

Roof mounted AM35 airmovers drying environmentally friendly water based paints in auto body shops or assembly lines.



METALWORKING - GRINDING

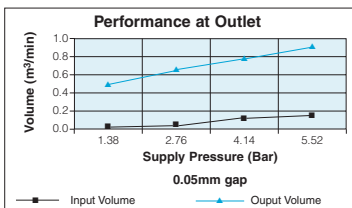
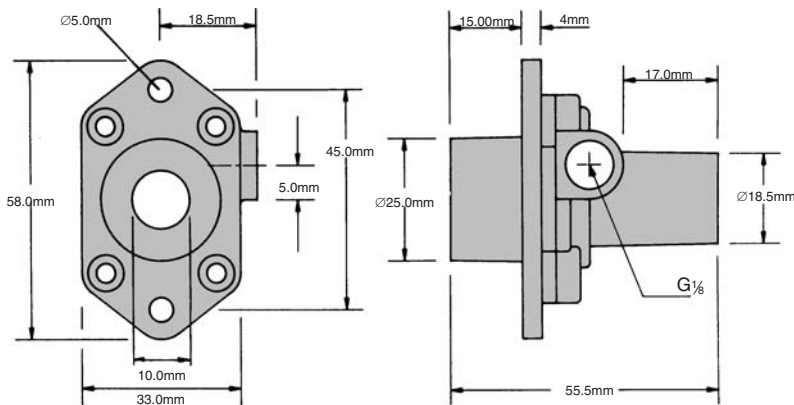
A model AM40 airmover boosts a vacuum system negating the need for a larger, more expensive ventilation system to remove grinding dust.



DRYING ENAMEL BASED PAINTS

Side mounted AM40 airmover drying enamel paint on a radiator manufacturing line.

FIXED GAP AIRMOVER AM10



Bar	Vol in m³/min	Vol out m³/min
1.38	0.048	0.490
2.76	0.065	0.660
4.14	0.125	0.733
5.52	0.164	0.886

PERFORMANCE DATA – DUCTED

METRIC		Back Pressure (mm water gauge) and guide to equivalent pipe length									
		125mm water gauge	250mm water gauge	375mm water gauge	500mm water gauge	625mm water gauge					
Supply Pressure kg/cm²	Vi m³/min	Vc m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m
2	.060	.26	7	.13	50	.20	37	.33	15	.13	—
3	.070	.47	2	.31	9	.36	10	.51	6	.37	14
4	.115	.64	1	.51	3	.54	4	.64	4	.58	6
5	.150	.76	1	.65	2						
6	.180	.87	0.5	.78	2						



Material: Zinc and aluminium alloy.

Weight: 0.100Kg

Standard Gap: 0.05mm

dB(A) at: 5.5 bar is 72

Shims: 0.04, 0.05, 0.08mm

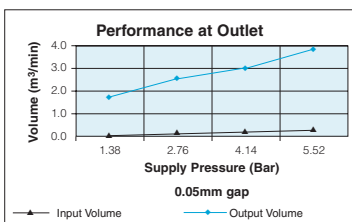
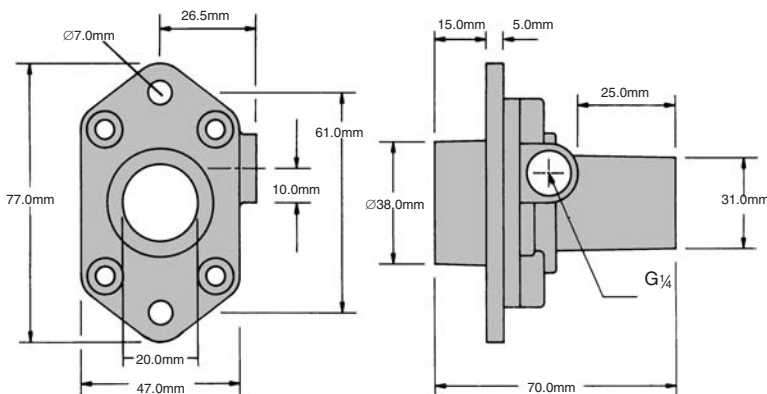
Optional Extra

Standard Inlet Thread: G $\frac{1}{8}$

Options: $\frac{1}{8}$ " NPT
Please specify on order $\frac{1}{8}$ " NPTF

Replacement shims

FIXED GAP AIRMOVER AM20



Bar	Vol in m³/min	Vol out m³/min
1.38	0.105	1.614
2.76	0.164	2.492
4.14	0.224	3.030
5.52	0.286	3.681

PERFORMANCE DATA – DUCTED

METRIC		Back Pressure (mm water gauge) and guide to equivalent pipe length									
		50mm water gauge	100mm water gauge	150mm water gauge	200mm water gauge	250mm water gauge					
Supply Pressure kg/cm²	Vi m³/min	Vc m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m	Vo m³/min	Equiv. Pipe length m
2	.125	.91	2.0	.59	9	.42	27	.62	18	.74	16
3	.170	1.42	0.8	1.03	3	.85	7	1.05	6	1.22	6
4	.210	1.90	0.4	1.46	2	1.25	3	1.51	3	1.78	3
5	.265	2.55	0.3	1.98	1	1.70	2				
6	.295	3.45	0.2	2.75	0.5	2.18	1				



Material: Zinc and aluminium alloy.

Weight: 0.250Kg

Standard Gap: 0.05mm

dB(A) at: 5.5 bar is 79

Shims: 0.04, 0.05, 0.08mm

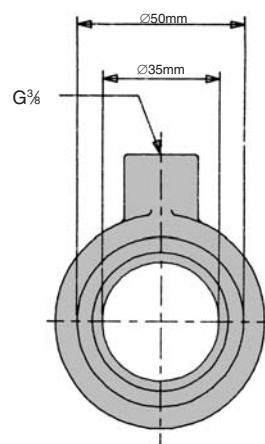
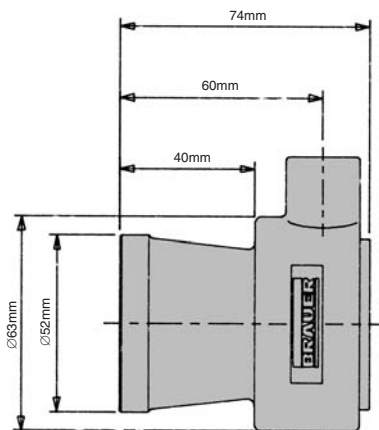
Optional Extra

Standard Inlet Thread: G $\frac{1}{4}$

Options: $\frac{1}{4}$ " NPT
Please specify on order $\frac{1}{4}$ " NPTF

Replacement shims

AM35 FIXED GAP AIRMOVER



Material: Zinc and aluminium alloy.

Weight: 0.19Kg

Standard Gap: 0.05mm

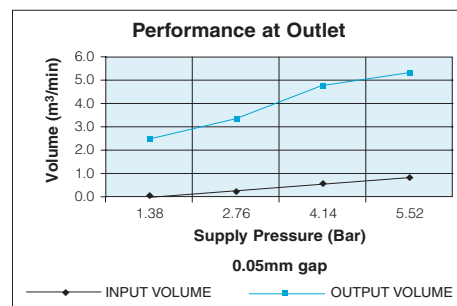
dB(A) at: 5.5 bar is 80

Shims: Not required

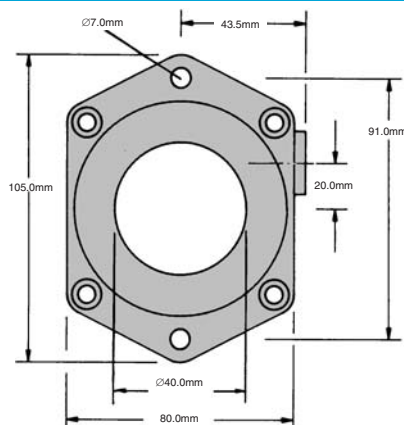
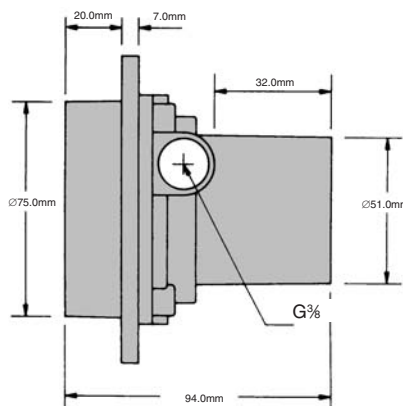
Standard Inlet Thread: G $\frac{3}{8}$

Options: $\frac{3}{8}$ NPT
Please specify on order $\frac{3}{8}$ NPTF

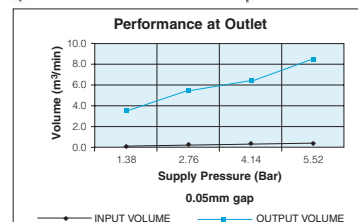
Bar	Vol in m ³ /min	Vol out m ³ /min
1.38	0.193	2.350
2.76	0.326	3.361
4.14	0.484	4.621
5.52	0.631	5.207



AM40 FIXED GAP AIRMOVER



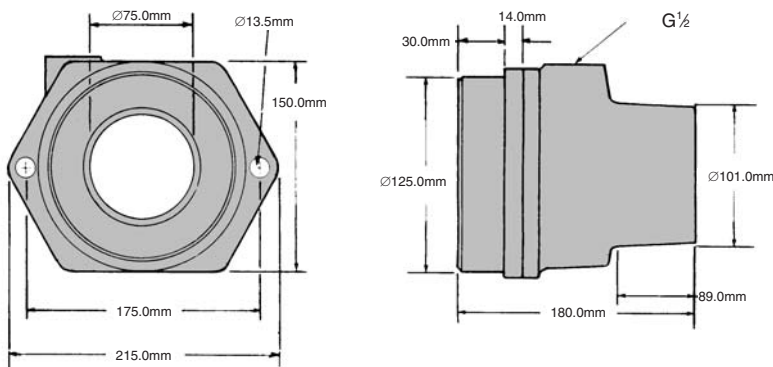
Bar	Vol in m ³ /min	Vol out m ³ /min
1.38	0.207	3.256
2.76	0.323	5.182
4.14	0.439	6.513
5.52	0.555	8.297



PERFORMANCE DATA – DUCTED

Back Pressure (mm water gauge) and guide to equivalent pipe length											
METRIC											
50mm water gauge			100mm water gauge			150mm water gauge			200mm water gauge		
Supply Pressure kg/cm ²	V _i m ³ /min	V _c m ³ /min	Equiv. Pipe length m	V _i m ³ /min	V _c m ³ /min	Equiv. Pipe length m	V _i m ³ /min	V _c m ³ /min	Equiv. Pipe length m	V _i m ³ /min	V _c m ³ /min
2	.26	1.22	10	1.00	29						
3	.36	1.97	4	1.44	14	1.16	34				
4	.42	2.88	2	2.20	6	1.75	15	1.00	58		
5	.50	4.14	1	3.08	3	2.49	7	1.80	18	1.33	43
6	.58	5.41	0.6	4.25	2	3.20	5	2.63	9	2.20	15

FIXED GAP AIRMOVER AM75



Material: Zinc and aluminium alloy.

Weight: 2.7Kg

Standard Gap: 0.05mm

dB(A) at: 5.5 bar is 80

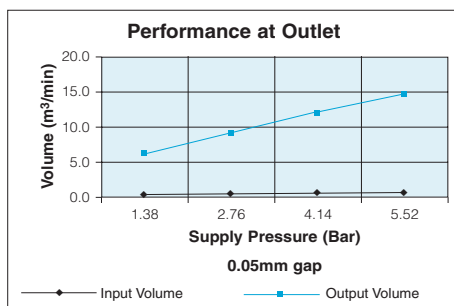
Shims: Not required

Standard Inlet Thread: G $\frac{1}{2}$

Options: $\frac{1}{2}$ " NPT

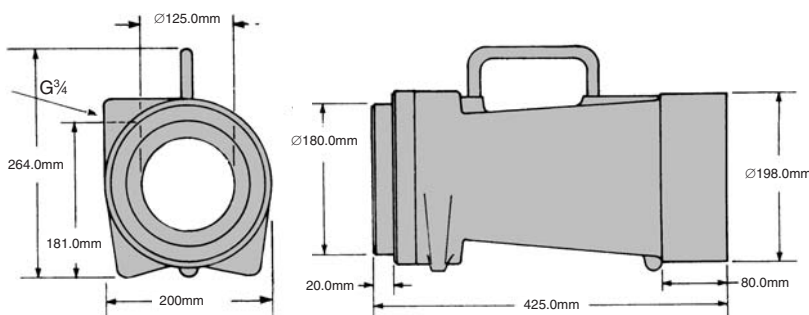
Please specify on order $\frac{1}{2}$ " NPTF

Replacement shims



Bar	Vol in m³/min	Vol out m³/min
1.38	0.425	6.230
2.76	0.651	9.203
4.14	0.906	12.035
5.52	1.133	14.866

FIXED GAP AIRMOVER AM125



Material: Zinc and aluminium alloy.

Weight: 7.55Kg

Standard Gap: 0.15mm

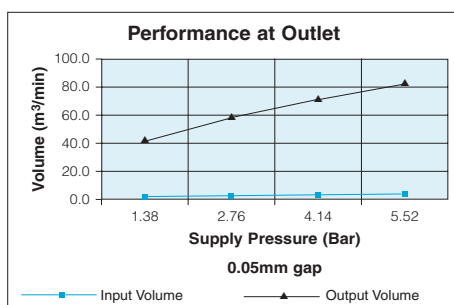
dB(A) at: 5.5 bar is 85

Shims: Not required

Standard Inlet Thread: G $\frac{3}{4}$

Options: $\frac{3}{4}$ " NPT

Please specify on order $\frac{3}{4}$ " NPTF



Bar	Vol in m³/min	Vol out m³/min
1.38	1.982	38.936
2.76	3.115	53.660
4.14	4.276	68.668
5.52	5.324	80.137