

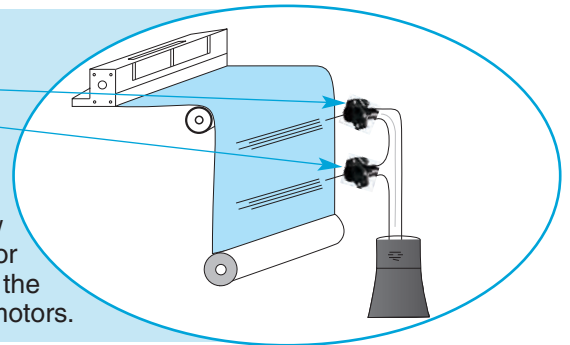
## ADJUSTABLE AIRMOVERS

In some applications, the engineer must be able to vary the volume of outlet air. Brauer adjustable airmovers incorporate air gaps which are not fixed, instead the gap can be varied by loosening the knurled ring and adjusting the sleeve accordingly. The result is that air consumption can be minimised and output volumes varied from a light blow to a blast of high volume air. When the desired air flows are obtained, the knurled ring can be locked into position. In most instances, the ideal air gap will be between 0.05mm and 0.10mm (.002" to .004")

The Brauer standard range of adjustable airmovers are manufactured in our factory from aluminium. Stainless steel versions are also available when the application requires (see page 15)

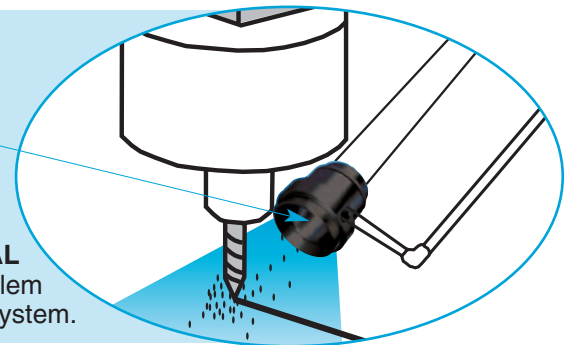
**Optional mounting rings and magnetic base are available (see page 22).**

## SOME TYPICAL APPLICATIONS – ADJUSTABLE AIRMOVERS



### SCRAP REMOVAL ON TEXTILES

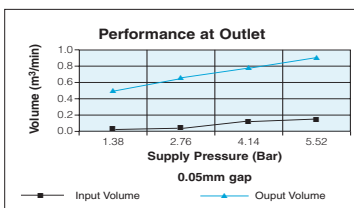
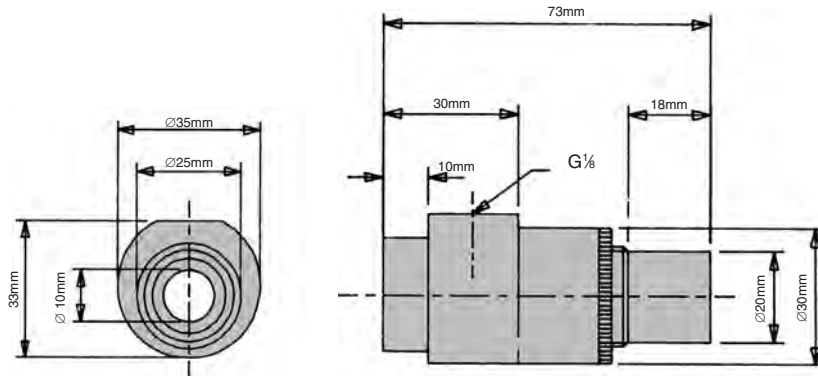
Two model AM10A airmovers used for fine adjustment of air flow which eliminate expensive vacuums and electric motors for trimming removal. Airmovers have the capability to remove the overheating problems inherent in electric motors.



### WOODWORKING - SAWDUST REMOVAL

AM60A airmovers used on this router eliminate the sawdust problem by boosting the vacuum system.

## ADJUSTABLE AIRMOVER AM10A



Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /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



**Material:** Aluminium alloy.

**Weight:** 0.09Kg

**Standard Gap:** Adjustable

**dB(A) at:** 5.5 bar is 73

**Shims:** Not Applicable

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

**Options:**

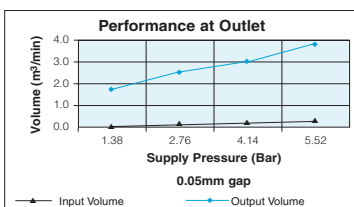
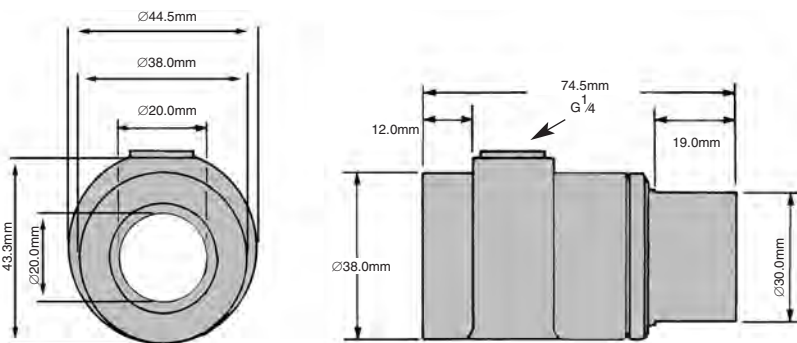
Please specify on order  $\frac{1}{8}$ " NPT

$\frac{1}{8}$ " NPTF

### 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/cm <sup>2</sup>	VI m <sup>3</sup> /min	Vc m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /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	.72	3					
6	.180	.87	0.5	.78	2							

## ADJUSTABLE AIRMOVER AM20A



Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /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



**Material:** Aluminium alloy.

**Weight:** 0.13Kg

**Standard Gap:** Adjustable

**dB(A) at:** 5.5 bar is 79

**Shims:** Not Applicable

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

**Options:**

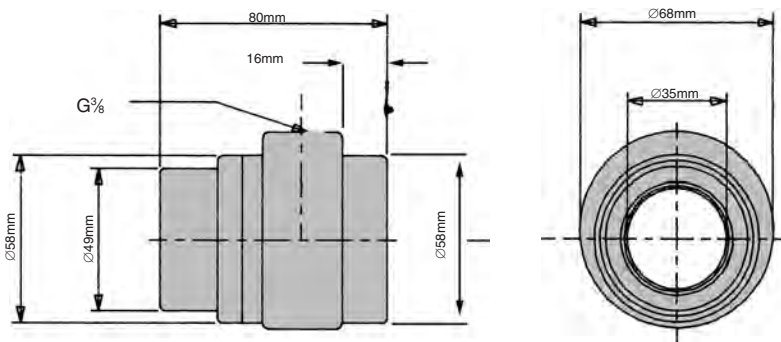
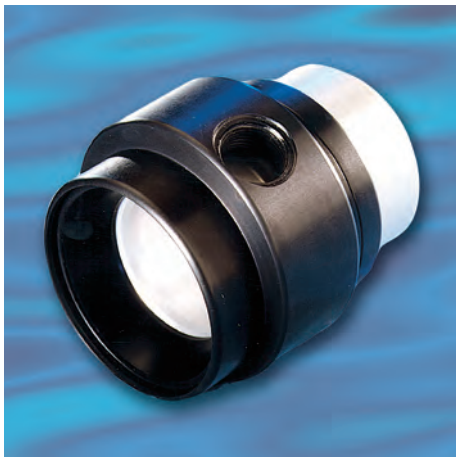
Please specify on order  $\frac{1}{4}$ " NPT

$\frac{1}{4}$ " NPTF

### 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/cm <sup>2</sup>	VI m <sup>3</sup> /min	Vc m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /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	2.04	2			
6	.295	3.45	0.2	2.75	0.5	2.18	1					

## AM35A ADJUSTABLE AIRMOVER



**Material:** Aluminium alloy.

**Weight:** 0.28Kg

**Standard Gap:** Adjustable

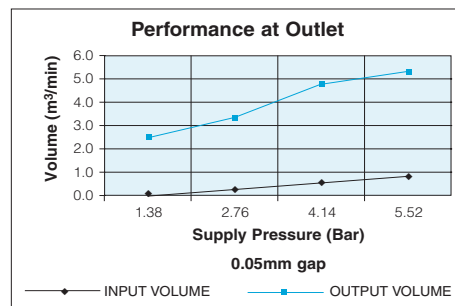
**dB(A):** 5.5 bar is 80

**Shims:** Not Applicable

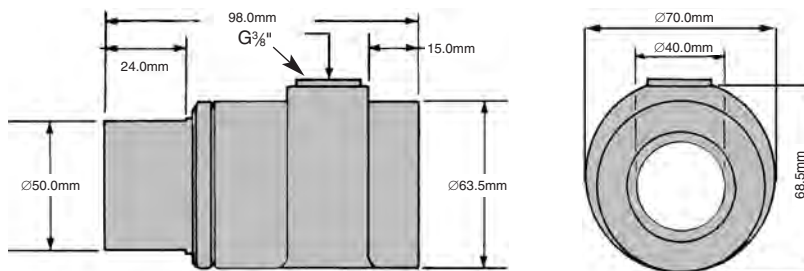
**Standard Inlet Thread:** G $\frac{3}{8}$

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

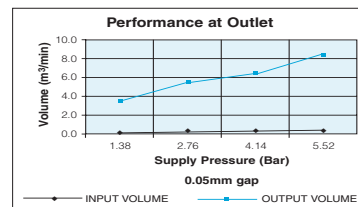
Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /min
1.38	0.193	2.350
2.76	0.326	3.361
4.14	0.484	4.621
5.52	0.631	5.207



## AM40A ADJUSTABLE AIRMOVER



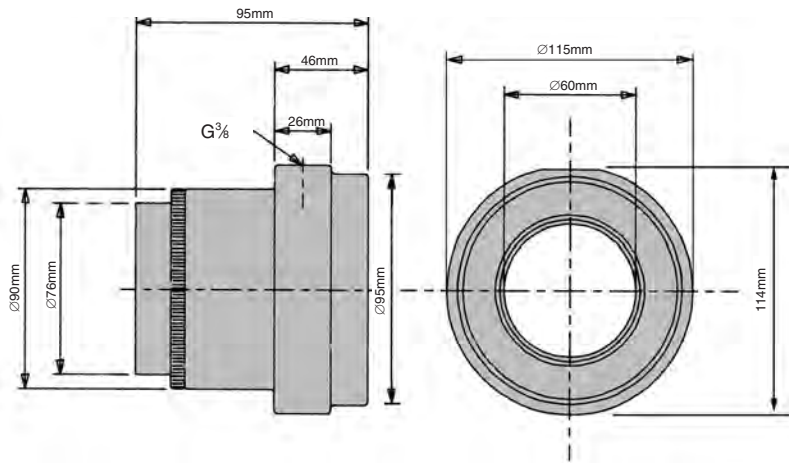
Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /min
1.38	0.207	3.256
2.76	0.323	5.182
4.14	0.439	6.513
5.52	0.555	8.297



### PERFORMANCE DATA – DUCTED

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/cm <sup>2</sup>	VI m <sup>3</sup> /min	Vc m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	Vo m <sup>3</sup> /min	Equiv. Pipe length m	
2	.26	1.22	10	1.00	29	1.00	29	1.00	58	1.33	43
3	.36	1.97	4	1.44	14	1.16	34	1.80	18	2.20	15
4	.42	2.88	2	2.20	6	1.75	15	2.63	9		
5	.50	4.14	1	3.08	3	2.49	7				
6	.58	5.41	0.6	4.25	2	3.20	5				

## ADJUSTABLE AIRMOVER AM60A



**Material:** Aluminium alloy.

**Weight:** 0.83Kg

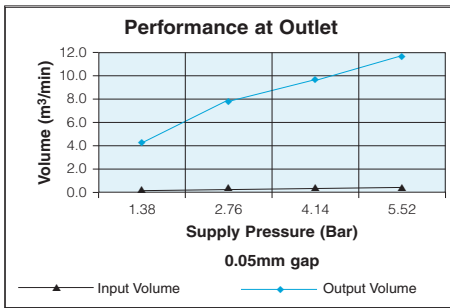
**Standard Gap:** Adjustable

**dB(A):** 5.5 bar is 80

**Shims:** Not Applicable

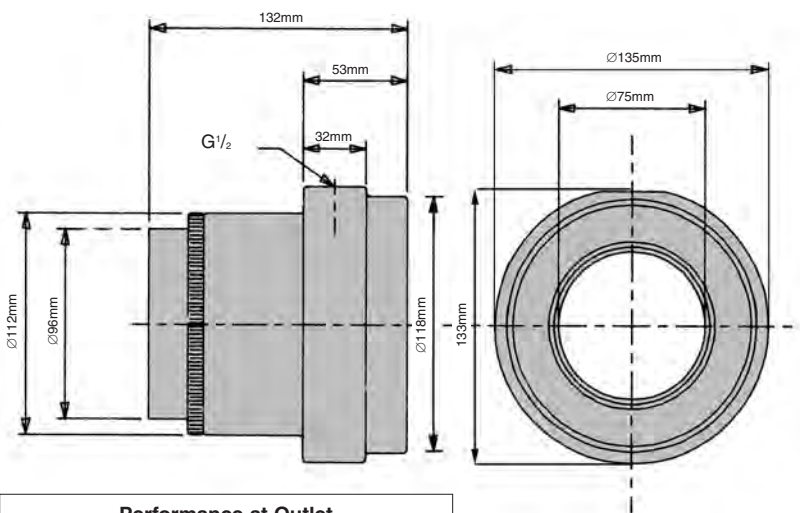
**Standard Inlet Thread:** G $\frac{3}{8}$

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



Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /min
1.38	0.280	4.191
2.76	0.476	7.561
4.14	0.654	9.231
5.52	0.841	11.327

## ADJUSTABLE AIRMOVER AM75A



**Material:** Aluminium alloy.

**Weight:** 1.5Kg

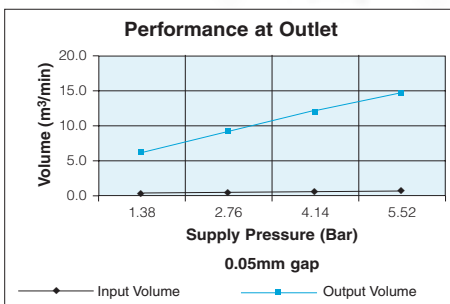
**Standard Gap:** Adjustable

**dB(A) at:** 5.5 bar is 80

**Shims:** Not Applicable

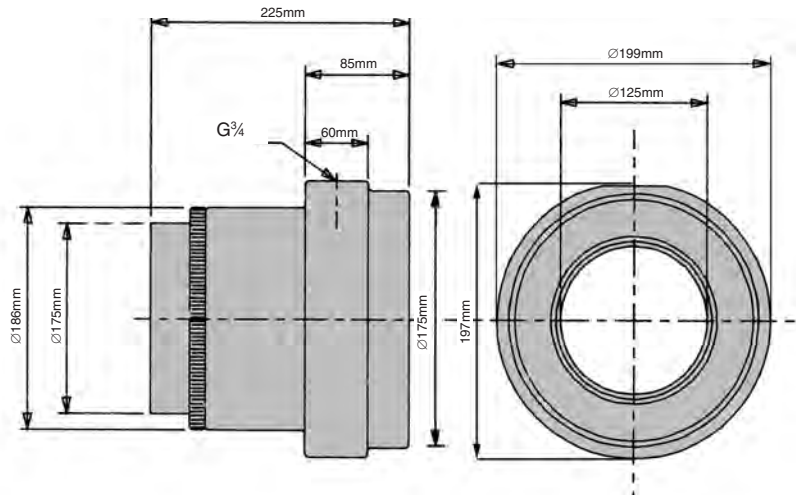
**Standard Inlet Thread:** G $\frac{1}{2}$

**Options:**  $\frac{1}{2}$ " NPT  
Please specify on order  $\frac{1}{2}$ " NPTF



Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /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

## AM125A ADJUSTABLE AIRMOVER



**Material:** Aluminium Alloy.

**Weight:** 5.4Kg

**Standard Gap:** Adjustable

**dB(A) at:** 5.5 bar is 8.5

**Shims:** Not applicable

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

**Options:**  $\frac{3}{4}$ " NPT  
Please specify on order  $\frac{3}{4}$ " NPTF

Bar	Vol in m <sup>3</sup> /min	Vol out m <sup>3</sup> /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

