

TRIGGER ACTION BLOW GUNS

BRAUER offers two series of blow guns, both hand held and operated by trigger.

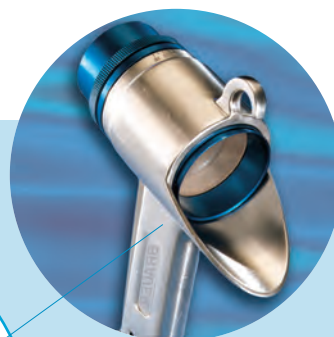
Our aluminium, trigger action blow gun has found favour with a number of major industrial companies, and has been particularly successful in difficult drying operations. The gun is light in weight and easy to use.

Our light weight reversible blow guns are manufactured from nylon, and are each a blow gun, vacuum gun and transfer gun in one compact unit. It is ideal for sucking up spills, waste, metal or plastic chips and is chemical and corrosion resistant. A wide range of accessories is available for this gun including dust collection bags, extension tubes, brushes, conveying hose and a crevice tool.

Our lightweight range is further enhanced with a deep hole air gun, ideal for cleaning holes up to 450mm deep.

The deep hole air gun acts both as an air gun and a vacuum gun. A small black tube running from the main body of the unit blasts air to agitate particles while the main gun nozzle sucks them safely away. The benefit of this exceptional system is that it keeps swarf from blowing over into other holes and allows all swarf and debris to be cleared completely from deep drilled or tapped holes. A clear plastic tube gives the user visibility to see when the hole is clear of debris and it also provides protection against any flying particles (see application shot).

SOME TYPICAL APPLICATIONS - TRIGGER ACTION BLOW GUNS



CAR BODY WORK PAINT REPAIRS
AG32 trigger action blow gun is ideal for drying small areas of paint on car body work.

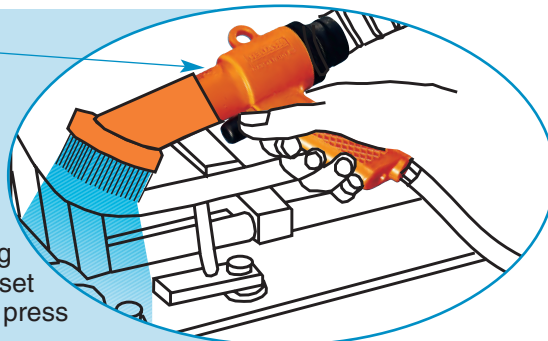
BRAUER[®]

SOME TYPICAL APPLICATIONS - TRIGGER ACTION BLOW/VACUUM GUNS



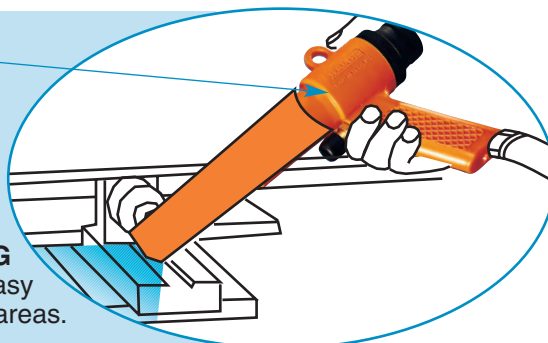
PRINTING

The Reversible Air Gun improves product quality and working environment in printing by efficient clean-up of offset powder on a printing press



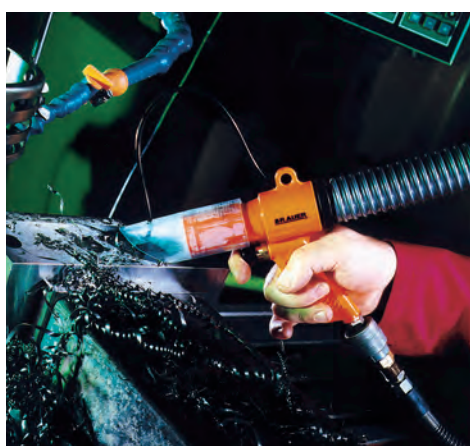
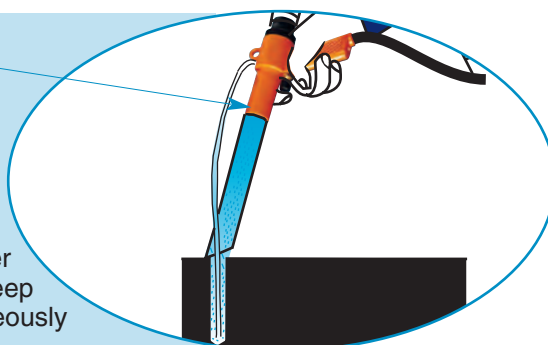
METAL WORKING

Reversible Air Gun with crevice tool accessory makes easy work of vacuuming swarf and coolant from hard to reach areas.

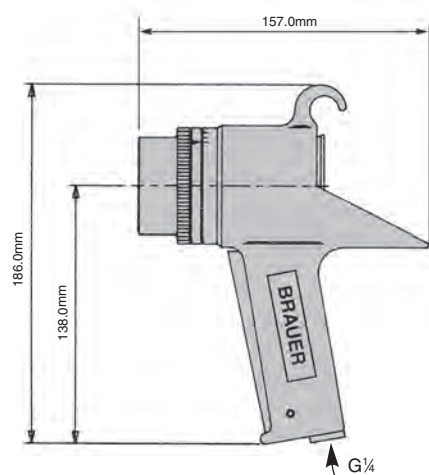


DEEP HOLE CLEANING GUN

Removing chips from deep holes after drilling is made simple using the specially designed deep cleaning gun to purge holes of debris instantaneously



TRIGGER ACTION BLOW GUN AG32



Material: Aluminium Alloy.

Weight: 0.54Kg

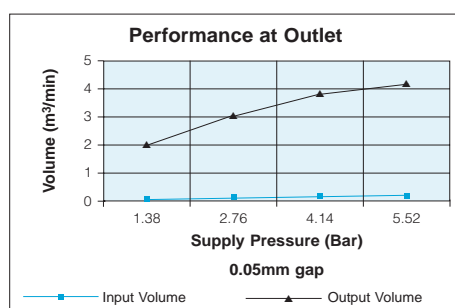
Standard Gap: Adjustable

dB(A) at: 5.5 bar is 78

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

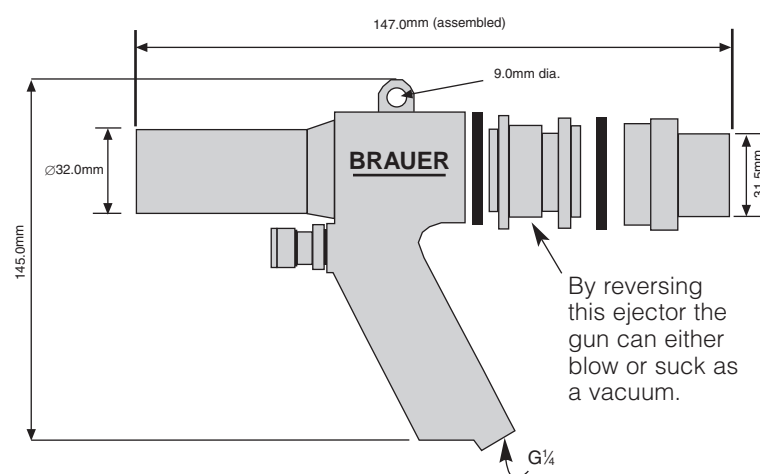
Options: $\frac{1}{4}$ " NPT

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



Bar	Vol in m³/min	Vol out m³/min
1.38	0.122	1.931
2.76	0.218	2.939
4.14	0.311	3.695
5.52	0.405	4.199

TRIGGER ACTION REVERSIBLE BLOW GUN CG22



Material: Nylon.

Weight: 0.15Kg

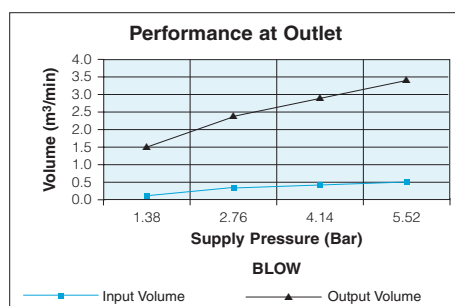
Standard Gap: Adjustable

dB(A) at: 5.5 bar is 79

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

Option: $\frac{1}{4}$ " NPT

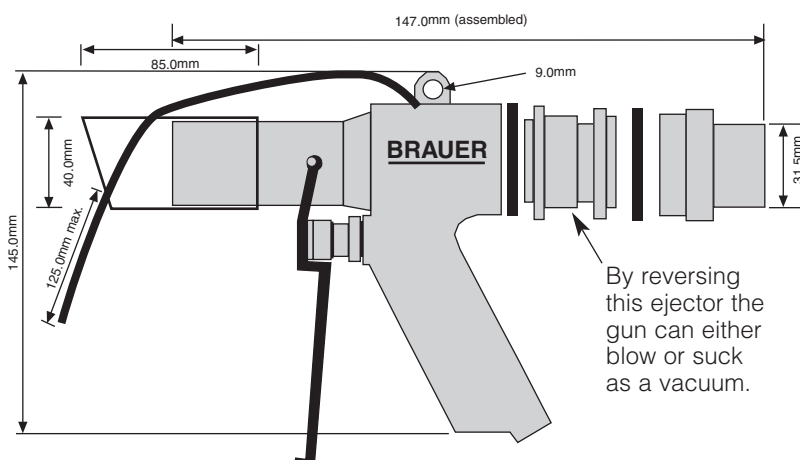
Please specify on order



Bar	Vol in m³/min	Vol out m³/min
1.38	0.181	1.512
2.76	0.295	2.352
4.14	0.396	2.856
5.52	0.513	3.360

BRAUER®

CG22DH DEEP HOLE AIR GUN



Material: Nylon.

Weight: 0.20Kg

Standard Gap: Adjustable

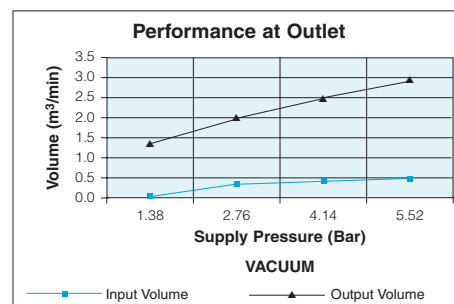
dB(A) at: 5.5 bar is 79

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

Option: $\frac{1}{4}$ " NPT

Please specify on order

Bar	Vol in m ³ /min	Vol out m ³ /min
1.38	0.185	1.344
2.76	0.304	2.016
4.14	0.421	2.520
5.52	0.531	2.940



ACCESSORIES FOR REVERSIBLE BLOW GUN

A wide range of accessories is available including Dust Bags, Extension Tubes, Brushes, Crevice Tool and Delivery Hose.



MODEL NO.	DESCRIPTION
DB22-1	DUST BAG includes clip
RB22-6	ROUND BRUSH *
ET22-3	EXTENSION TUBE
CN22-5	CREVICE TOOL *
FN22-2	FLARED NOZZLE *
CH22-4	EXTENSION HOSE

* can be used with both blow gun and drum pump

AIRMISER NOZZLES

Brauer Airmisers can be fitted either as part of a system or onto any hand held blow gun having a G $\frac{1}{8}$ female outlet. The airmiser gives a concentrated high velocity jet of air, the compressed airflow being magnified some 25 times or more. However this is achieved with minimal consumption.

Provide 30% to 50% more thrust than other nozzles at the same consumption of compressed air. All models induce ambient air in approximately 25 to 1 ratio providing much higher thrust. No Central Through Orifice, eliminates static pressure. Use for: Blow Guns, Cooling/Blowing, Parts Ejection, Drying. Smooth flow reduces noise to a minimum.

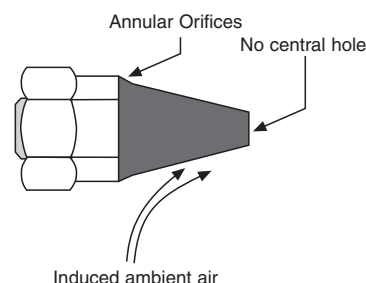
FOR MAXIMUM PERFORMANCE

Use clean air up to 10 Bar

Valves & fittings must be large enough to permit full flow.

Valves & fittings on lines feeding "Blow Hard" must have orifice size of at least 5.5mm diameter.

HIGH THRUST

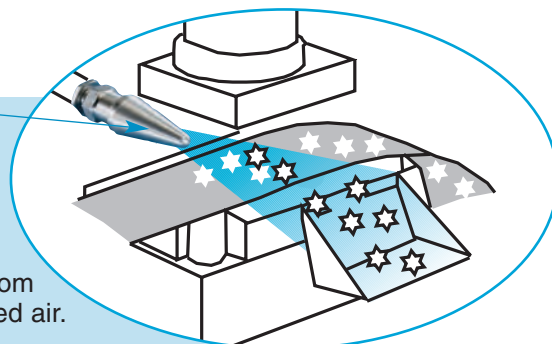


SOME TYPICAL APPLICATIONS - AIRMISER NOZZLES



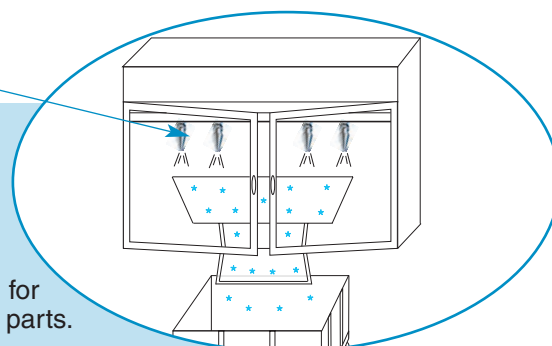
STAMPING

Careful placement of this Airmiser Nozzle ejects parts quickly from this stamping press whilst conserving compressed air.



MOULDING

The small size of an Airmiser nozzle with its instant on/off facility makes it ideal for moulding machines. It is used here for cooling and quick release of small parts.



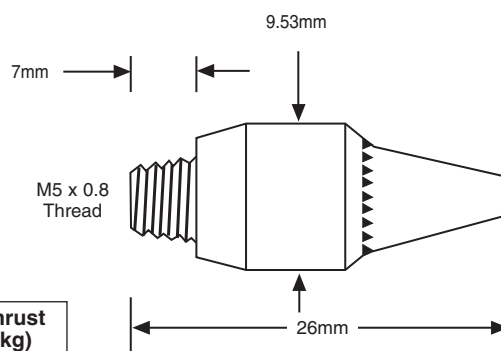
Airmiser nozzle cooling a hot spot in a plastic mould.



FOR BRAUER CLAMPING PRODUCTS PLEASE SEE THE BRAUER CLAMPING PRODUCTS CATALOGUE.



A1 AIRMISER NOZZLE



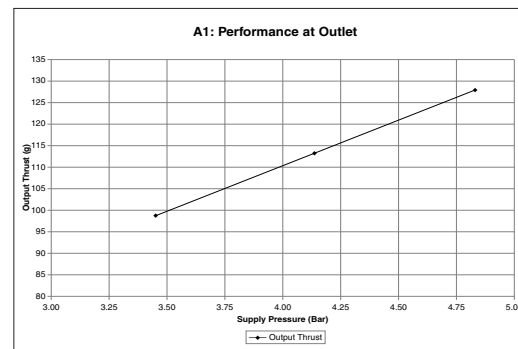
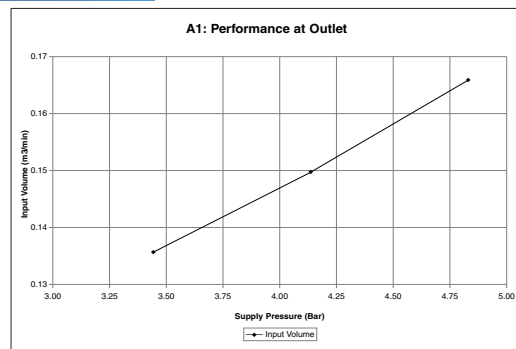
Bar	Vol in m ³ /min	Thrust (kg)
3.45	0.14	0.1
4.14	0.15	0.11
4.83	0.17	0.13

Material: Brass

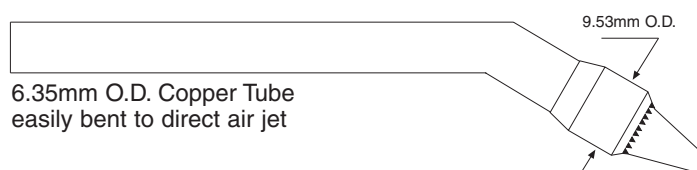
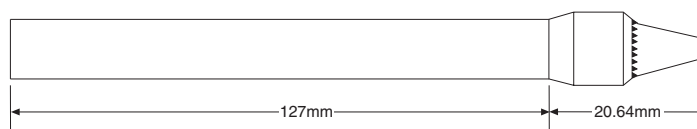
Weight: 0.007kg

dB(A) at: 5.5 bar is 68

Inlet Thread: G $\frac{1}{4}$ O.D.
Tube



A1L MINI AIRMISER NOZZLE WITH LONG COPPER TUBE



6.35mm O.D. Copper Tube
easily bent to direct air jet

Model MA brass with
copper tube

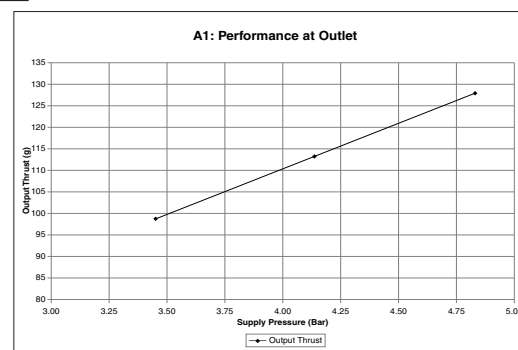
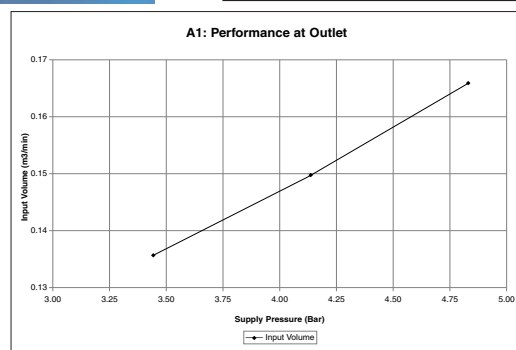
Bar	Vol in m ³ /min	Thrust (kg)
3.45	0.14	0.1
4.14	0.15	0.11
4.83	0.17	0.13

Material: Brass with
copper tube.

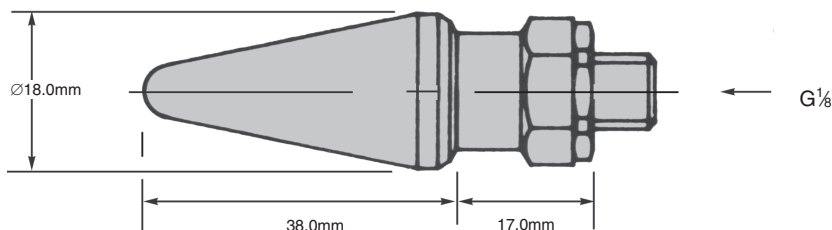
Weight: 0.023kg

dB(A) at: 5.5 bar is 68

Inlet Thread: G $\frac{1}{4}$ O.D.
Tube



STANDARD AIRMISER NOZZLE A2



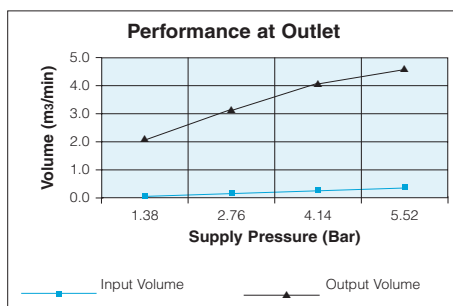
Material: Aluminium Alloy.

Weight: 0.025Kg

Standard Gap: 0.15mm

dB(A) at: 5.5 bar is 83

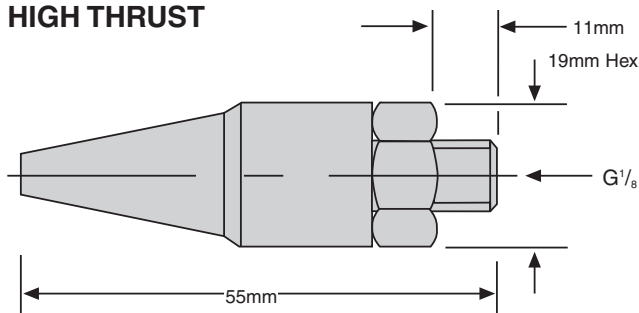
Inlet Thread: G $\frac{1}{8}$



Bar	Vol in m³/min	Vol out m³/min
1.38	0.125	2.265
2.76	0.212	3.256
4.14	0.300	4.106
5.52	0.391	4.672

ADJUSTABLE AIRMISER NOZZLE A3

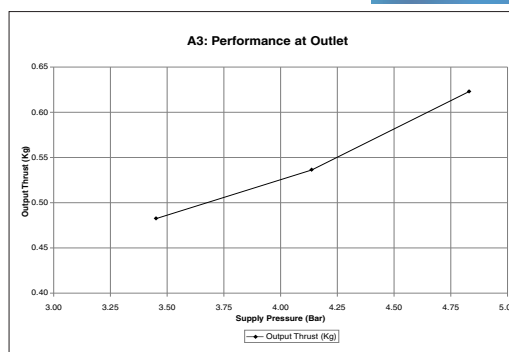
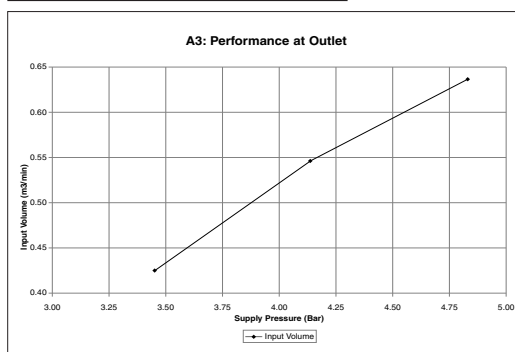
HIGH THRUST



Uses and Advantages

Infinitely adjustable.
Valves and regulators not required.

Bar	Vol in m³/min	Max thrust (kg)
3.45	0.43 max.	0.48
4.14	0.55 max.	0.54
4.83	0.64 max.	0.62



Material: Aluminium.

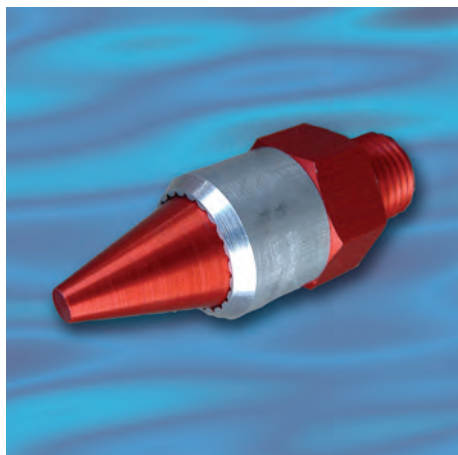
Weight: 0.025kg

dB(A) at: 5.5 bar is 84

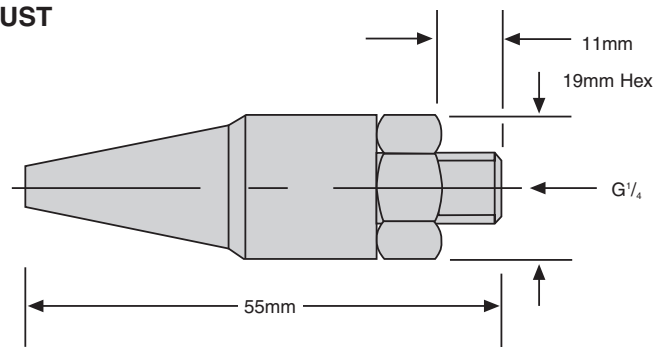
Inlet Thread: G $\frac{1}{8}$



A4 BLOWHARD AIRMISER NOZZLE



HIGH THRUST



Material: Aluminium.

Weight: 0.025kg

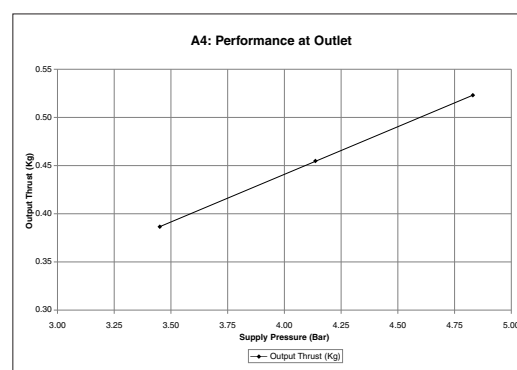
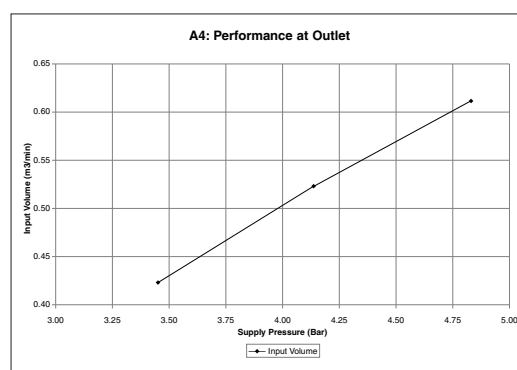
dB(A) at: 5.5 bar is 83

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

Uses and Advantages

Heavy duty parts ejection. Cooling and drying. Economical and quiet.

Bar	Vol in m ³ /min	Thrust (kg)
3.45	0.43	0.38
4.14	0.52	0.45
4.83	0.61	0.52



INDUSTRIAL CLEANING AIR PUMP SYSTEMS

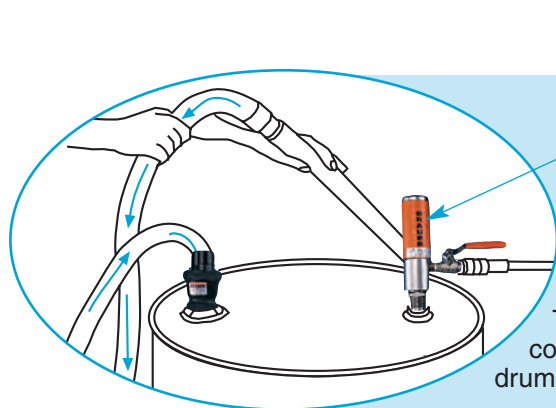
BRAUER has developed a range of tooling aids to assist the workshop engineers – whether they are working with metals, plastics or chemicals.

The Brauer Drum Pump is designed to pick up liquid spills in the workshop. The system utilises the standard 205 litre drum including the two holes which are standard in the drum lid. Tests have shown that the Brauer Drum Pump can transfer 125 litres of machine tool coolant in 65 seconds. The Brauer Drum Pump comes with a number of useful tools which allow the transfer of liquids and solids with ease from difficult areas.

The Brauer air pump system CGP22 is designed to convey a wide range of materials both horizontally and vertically over long distances in a ducted system.

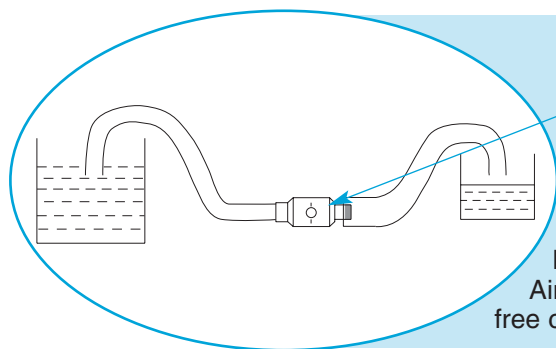
When placed in series the air pump will provide enhanced performance by giving improved conveying power over a much greater distance.

SOME TYPICAL APPLICATIONS - DRUM PUMP



METALWORKING

The Drum Pump kit handles sludge, oil coolant or wet swarf pulling it into drums for clean and easy disposal.



PLASTICS

Air Pump system used for maintenance free conveying of plastic granules.



REMOVING SWARF

Drum pump cleaning up swarf into metal drum for easy disposal.

BRAUER®

DP175 LIQUID DRUM PUMP



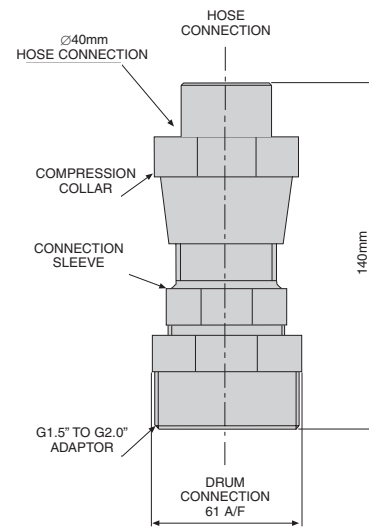
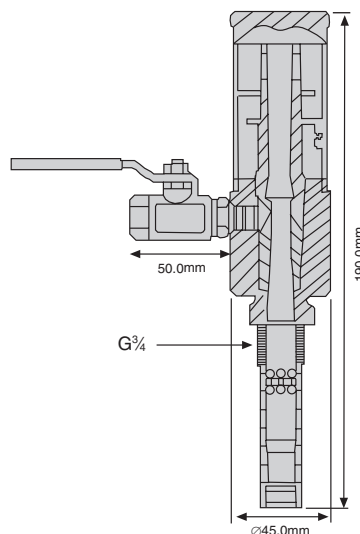
Material: Pump: Stainless Steel
Connector: Nylon

Weight: 1.6Kg

dB(A) at: 5.5 bar is 92

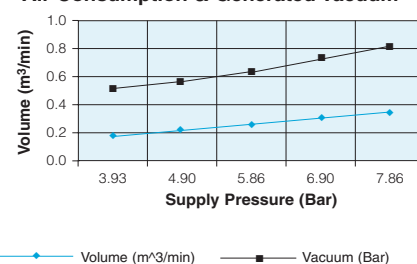
Standard Inlet Threads: G $\frac{1}{4}$

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



Bar	Vol in m ³ /min	Vol out m ³ /min	SLPM (L/min)
3.93	0.170	0.476	470
4.90	0.212	0.559	560
5.86	0.255	0.641	640
6.90	0.297	0.724	720
7.86	0.340	0.807	810

Air Consumption & Generated Vacuum



CGP22 AIR PUMP SYSTEM



Material: Nylon.

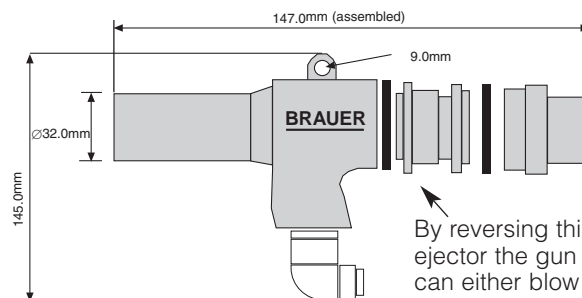
Weight: 0.12kg

Standard Gap: Adjustable

dB(A) at: 5.5 bar is 79

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

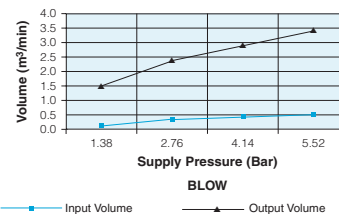
Options: $\frac{1}{4}$ " NPT
Please specify on order



By reversing this ejector the gun can either blow or suck as a vacuum.

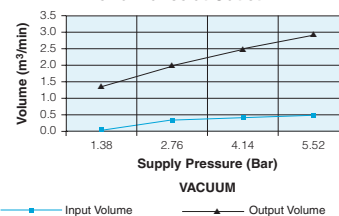
Bar	Vol in m ³ /min	Vol out m ³ /min
1.38	0.181	1.512
2.76	0.295	2.352
4.14	0.396	2.856
5.52	0.513	3.360

Performance at Outlet



Bar	Vol in m ³ /min	Vol out m ³ /min
1.38	0.185	1.344
2.76	0.304	2.016
4.14	0.421	2.520
5.52	0.531	2.940

Performance at Outlet



ACCESSORIES FOR DRUM PUMP

A wide range of accessories is available including Extension Tubes, Brushes, and Crevice Tool.

MODEL NO.	DESCRIPTION
DP175-4	HOSE
DP175-5	EXTENSION TUBE
DP175-2	90° QUICK CONNECTOR



BRAUER®

STAINLESS STEEL VORTEX TUBES

A Vortex Tube turns ordinary compressed air into two streams of air, one is very cold and one hot. The Brauer Vortex Tube is manufactured from stainless steel giving excellent resistance to oxidation and corrosion and particularly high wear resistance. No tools are needed to adjust the temperature; this is achieved by use of a control knob at the end of the unit.

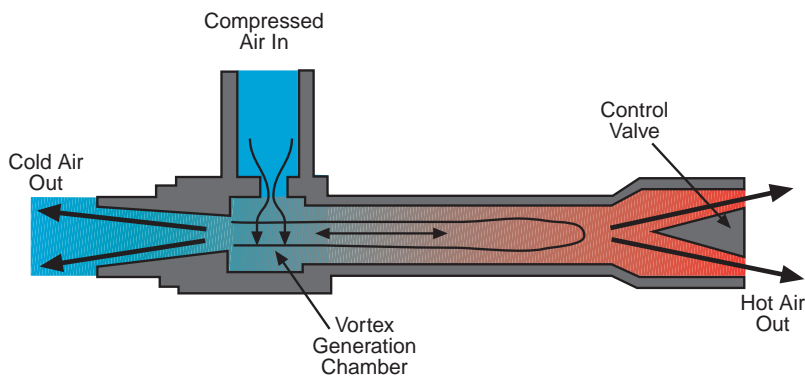
Brauer Vortex Tubes can produce:

- temperatures from 38°C below input temperature to 39°C above input temperature
- airflow rates up to 0.85m³/min (30 SCFM or 860 SLPM)
- refrigeration up to 1430 Btu/H (360 Kcal/H)

Applications include the cooling of electronic enclosures.

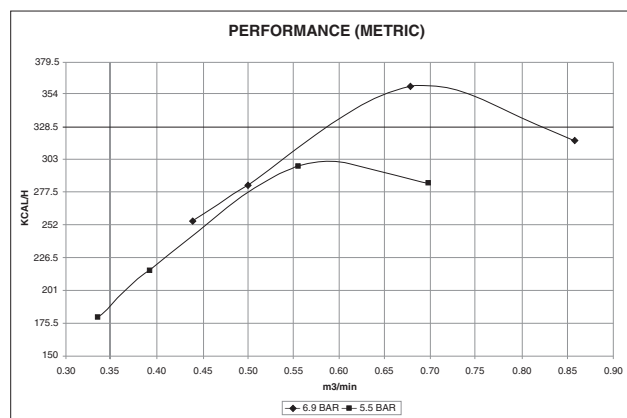
VORTEX TUBES AND HOW THEY WORK

A compressed air supply at up to 6.9 bar is used to create 2 low pressure air flows when passed through the vortex generator. The generator spins the air and separates it into cold air and hot air. The cold air exits at typically 38°C below the air supply temperature, whilst hot air at 39°C above the air supply temperature exits at the rear of the vortex chamber.



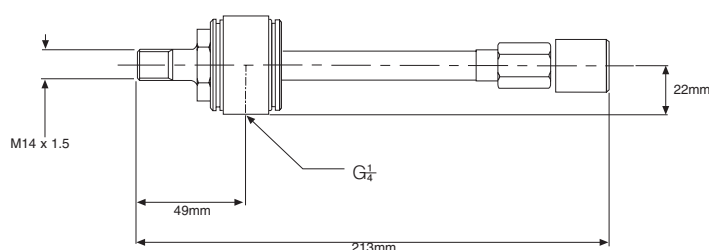
VORTEX TUBES PERFORMANCE

The Vortex Tube Performance Charts below give approximate temperature drops (and rises) from inlet air temperature produced by a vortex tube set at each cold fraction. Assuming no fluctuation of inlet temperature or pressure, a vortex tube will reliably maintain temperature within $\pm 1^\circ\text{C}$.



Unit/ Generator	Supply Pressure BAR	Air Consumption m³/min	Thermal Capacity KCAL/H	Temp Red's °C
#2	6.9	0.44	255	38
#4	6.9	0.50	283	34
#6	6.9	0.68	360	25
#8	6.9	0.86	318	16.4
#2	5.5	0.34	180	36
#4	5.5	0.39	217	33
#6	5.5	0.56	298	25
#8	5.5	0.70	285	16

CG4AX VORTEX TUBES



Material: Stainless Steel.

Weight: 1.5Kg

dB(A) at: 5.5 bar is 80

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

Options: $\frac{1}{4}$ " NPT

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

BRAUER®

COLD AIR GUNS – FIXED AND ADJUSTABLE

It seems amazing that your workshop compressed air can be used to provide two very different air streams when passed through the Brauer Cold Air Gun or Vortex Tube

- one air stream at 38°C below the workshop supply temperature
 - the other at 39°C above the workshop supply temperature
- all by using a Brauer Cold Air Gun

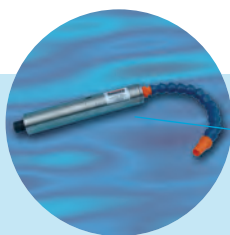
The uses for such a phenomenon are widespread:

- cool machining operations, removing the need for wet coolant
- cool electronic control cabinets
- setting hot formed plastics, sealants or solders

All are achieved with no electric power requirement and using a virtually maintenance free, stainless steel constructed Vortex Tube.

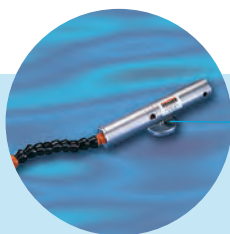
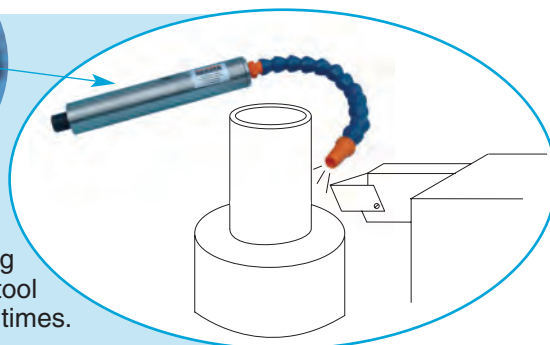
The Brauer adjustable cold air gun has incorporated a temperature control knob allowing you to set the optimum efficiency required for your application.

SOME TYPICAL APPLICATIONS - COLD AIR GUN



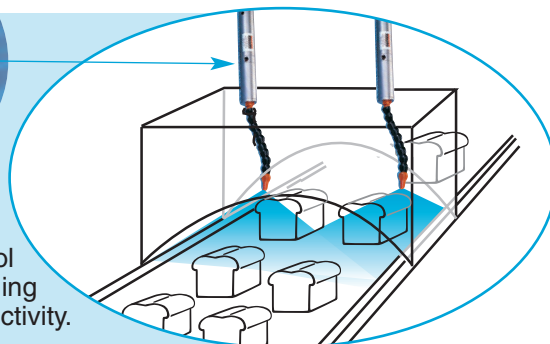
PLASTICS AND MACHINING

A Cold Air Gun improves the finish on this plastic by cooling the cutting tool thus increasing the life of the cutting tool and therefore speeding up cycle times.

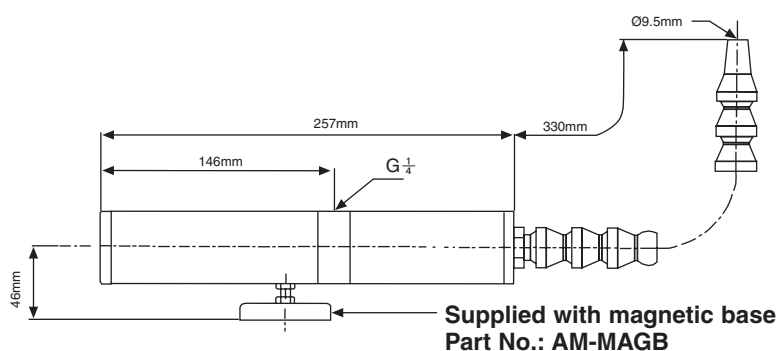


FOOD PROCESSING - PRODUCT COOLING

Two Cold Air Guns provide clean, cold dry air to cool bakery items eliminating expensive and long cooling conveyors, and thus improving productivity.



COLD AIR GUN CG4



Material: Stainless Steel

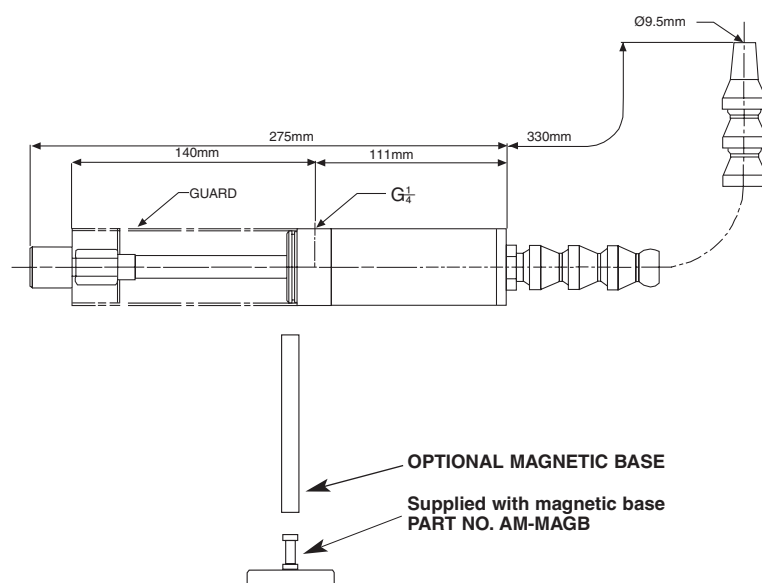
Weight: 1.7Kg

dB(A) at: 5.5 bar is 80

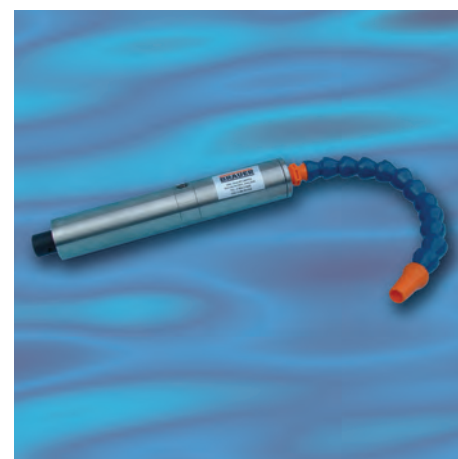
Standard Inlet Threads: G 1/4

Options: 1" NPT
Please specify on order 1" NPTF

ADJUSTABLE COLD AIR GUN CG4A



Optional mounting rings are available (see page 22).



Material: Stainless Steel.

Weight: 1.7Kg

dB(A) at: 5.5 bar is 80

Standard Inlet Threads: G 1/4

Options: 1" NPT
Please specify on order 1" NPTF

BRAUER®

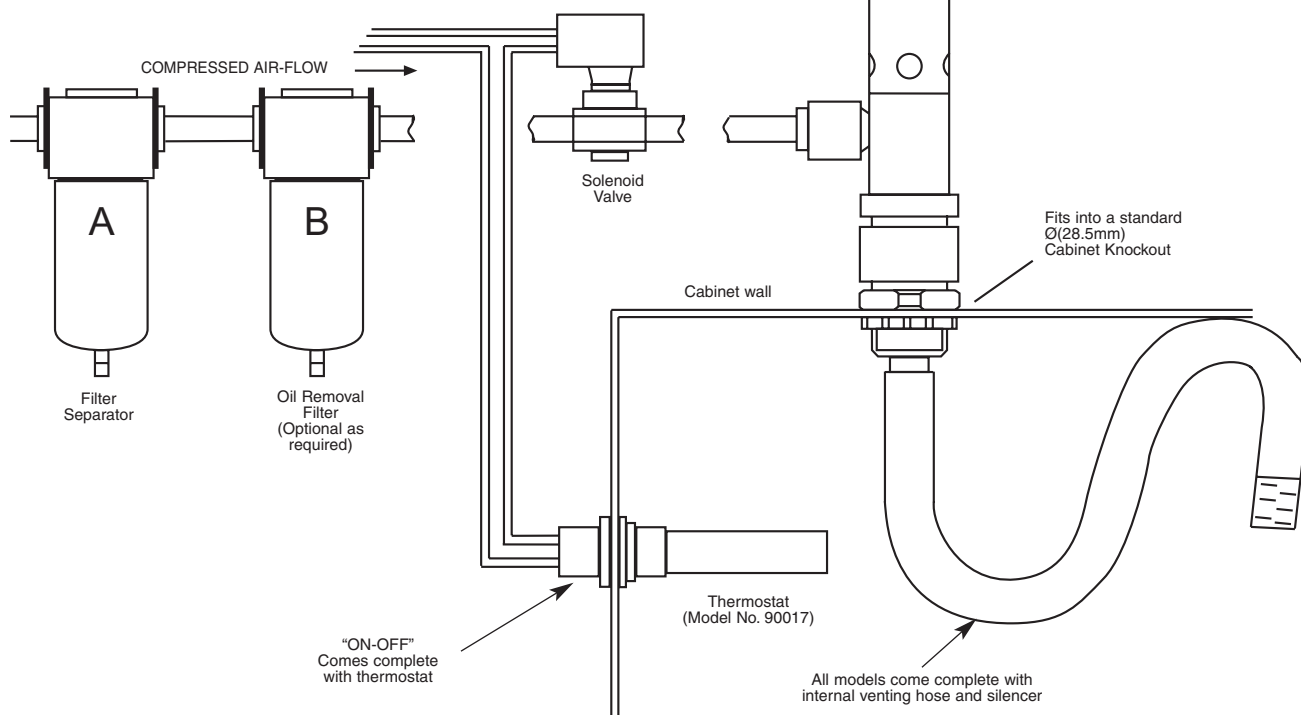
CABINET/ENCLOSURE COOLERS

Air Enclosure Cooler Conditioners for control panels provide a low cost method of both purging and cooling electrical and electronic control panels by using a stainless steel vortex tube to create cold air from ordinary compressed air.

There are virtually no moving parts. These units are compact and can be installed in minutes through a standard electrical cabinet knockout hole. These units are ideal for all NEMA 12 rated panels. Filtered, compressed air enters the Enclosure Cooler Electrical Panel Cabinet Cooling System Air Conditioner and through the vortex tube component. The air is split into two streams, one hot and one cold.

The muffled hot air from the vortex tube is expelled through the top of the air conditioner. The cold air is directed into the enclosure through the cold air distribution venting hose. Hot air inside the enclosure rises and exits to atmosphere via the air exhaust at a slight positive pressure. The enclosure is both purged and cooled with clean air. No outside air enters the enclosure.

MODEL NO.	VERSION	BTU/Hr. cooling*
EC15C	12 Continuous Operation	1100
EC25C	12 Continuous Operation	1800
EC30C	12 Continuous Operation	2100
EC40C	12 Continuous Operation	2900
EC15	NEMA 12 on-off control	1100
EC25	NEMA 12 on-off control	1800
EC30	NEMA 12 on-off control	2100
EC40	NEMA 12 on-off control	2900



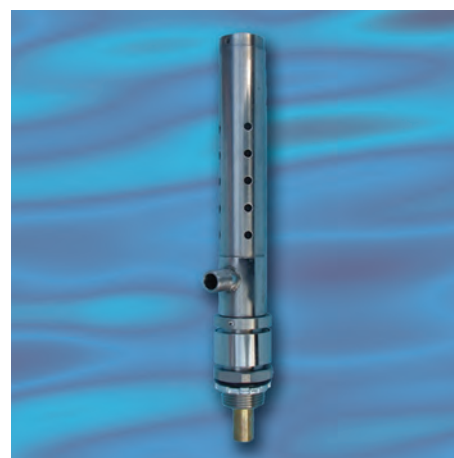
ALL 'CONTINUOUS' OPERATING MODELS INCLUDE:
ALL 'ON-OFF' OPERATING MODELS INCLUDE:

COLD AIR INTERNAL VENTING HOSE & SILENCER
COLD AIR INTERNAL VENTING HOSE; SILENCER & THERMOSTAT

CABINET COOLER

Advantages

- * Low in cost
- * Compact
- * No CFC's
- * Fast installation
- * Stabilize enclosure temperature and humidity
- * Virtually maintenance free (No Moving Parts)
- * Mounts in a standard electrical knockout
- * Stops heat damage and nuisance tripping
- * Eliminates fans and filters
- * Prevents dirt contamination by keeping enclosure at positive pressure
- * Units applicable to all environments including high temperature to 200°F



Applications

- * Computer Enclosures
- * Frequency Drives
- * CCTV Cameras
- * NC/CNC Systems
- * Scanners

Selection

Brauer's EC range of Cabinet Cooler Air Conditioning Systems uses a 5 micron filter with an automatic drain for the compressed air supply to insure clean, dry air and an air distribution kit to circulate the cold air inside the enclosure for even cooling.

The Brauer EC range is available with or without thermostat control.

When constant cooling and a constant positive purge is required we recommend the continuous operating version without the thermostat and solenoid valve. The cooling effect can be controlled by adding a regulator in line to reduce pressure for reduced cooling when it is not required and to conserve energy.

Systems utilizing a thermostat and solenoid valve saves air by activating the air conditioner only when the internal temperature reaches a critical level. The adjustable thermostat is factory set at 35°C but can be readjusted on site.

Thermostat and solenoid valve systems are

recommended where the heat load can fluctuate (such as for frequency drives) and where a continual purge is not required. The thermostat and solenoid "package" can also be added at a later date to a continuous system.

Sizing Specifications

Sizing Specifications for the Brauer Enclosure Coolers.

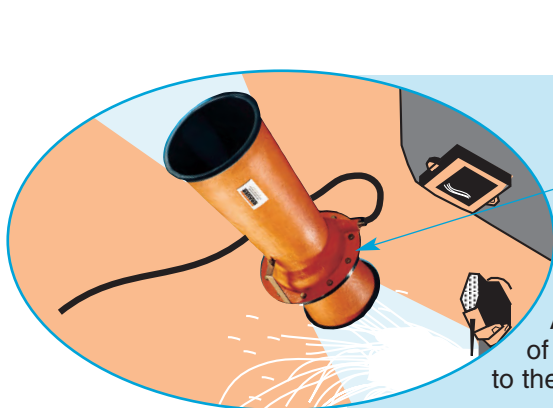
- * Cooling effect based on 35°C temperature inside cabinet, 6.8 Bar compressor inlet pressure, and 21°C inlet temperature. BTU/hr. figures rounded to nearest 100 BTU/hr.
- * All Continuous Operation models include the cooling unit, and cold air distribution kit.
- * All On-Off control units include the cooling unit, with cold air distribution kit, and thermostat.

BRAUER®

EXTRACTOR VENTILATORS

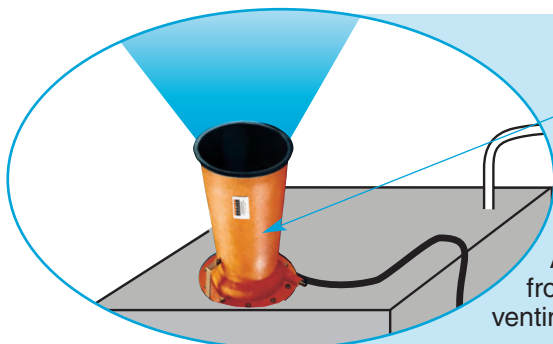
In some applications it is important to vent large volumes of air or fumes as quickly as possible – for example in venting the cargo holds of ships. Brauer offers a range of lightweight, GRP construction ventilators which remove dust and fumes quickly and safely, and are resistant to chemicals, salt water and general corrosion. A range of anti-static extractor/ventilators is also available

SOME TYPICAL APPLICATIONS - EXTRACTOR VENTILATORS



FUME EXTRACTION

An EV4 extractor ventilator removing fumes directly from the face of the welder. The fumes can be led away by a flexible pipe to the outside or to a ventilation system



FUME EXTRACTION

An EV6 extractor removing hot gasses from chemical storage tank prior to tank venting, inspection and cleaning.



An EV8 extractor ventilator used to vent the cargo hold of a ship prior to cleaning.

EV2 EXTRACTOR VENTILATOR



Material: GRP

Weight: 0.43Kg

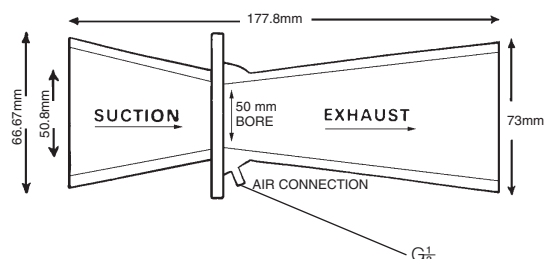
dB(A) at: 5.5 bar is 90

Takes 64mm bore ducting

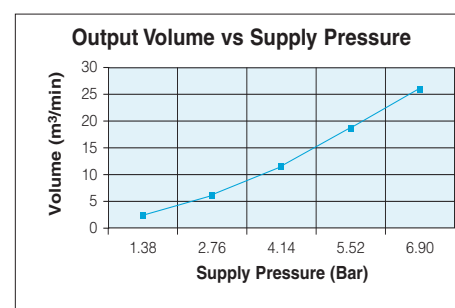
Standard Inlet Threads: G_{1/2}

Option: 1/2" NPT

Please specify on order



Bar	Vol out m³/min
1.38	2.8
2.76	6.8
4.14	11.9
5.52	18.4
6.90	26.0



EV3 EXTRACTOR VENTILATOR



Material: GRP.

Weight: 0.71Kg

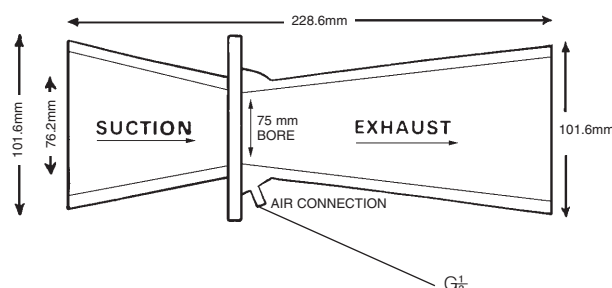
dB(A) at: 5.5 bar is 88

Takes 102mm bore ducting

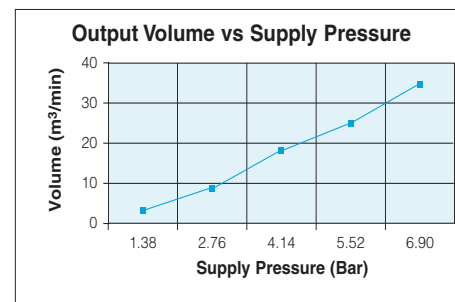
Standard Inlet Threads G_{1/2}

Option: 1/2" NPT

Please specify on order



Bar	Vol out m³/min
1.38	3.7
2.76	8.5
4.14	16.7
5.52	25.5
6.90	34.0





EV4 EXTRACTOR VENTILATOR



Material: GRP.

Weight: 1.5Kg

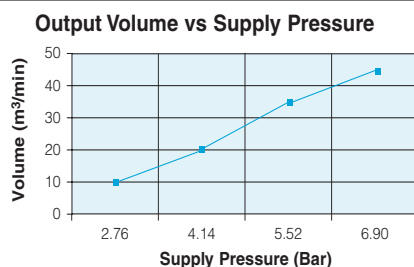
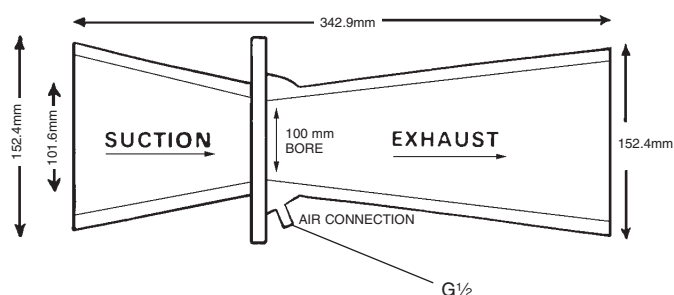
dB(A) at: 5.5 bar is 85

Takes 152mm bore ducting

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

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

Please specify on order



Bar	Vol out m³/min
2.76	10.2
4.14	20.4
5.52	35.4
6.90	45.3

EV6 EXTRACTOR VENTILATOR



Material: GRP.

Weight: 4.5Kg

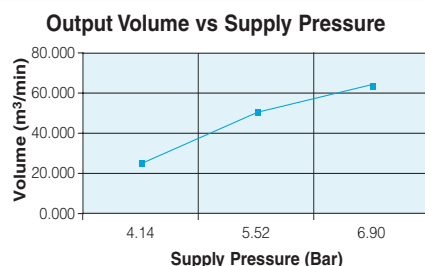
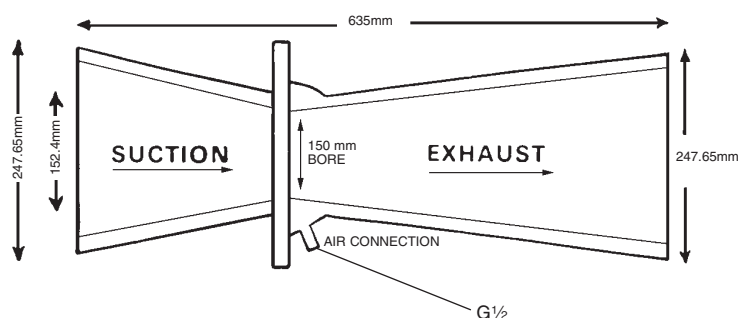
dB(A) at: 5.5 bar is 78

Takes 254mm ducting

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

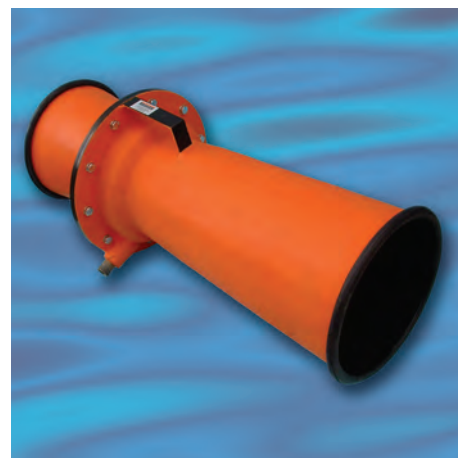
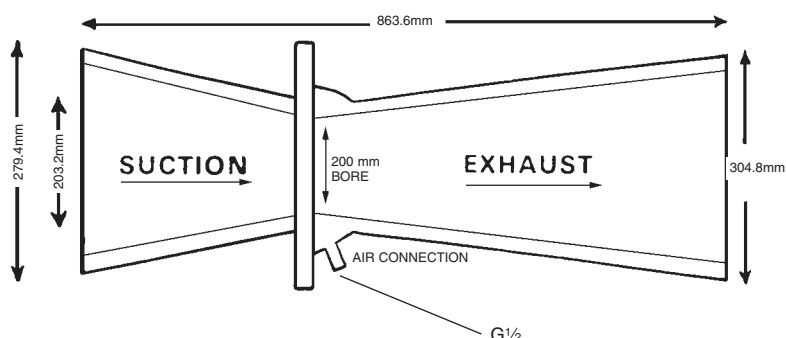
Option: $\frac{1}{2}$ " NPT

Please specify on order

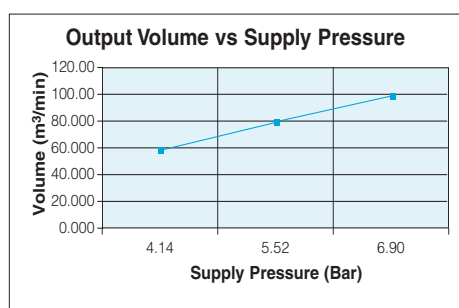


Bar	Vol out m³/min
4.14	27.8
5.52	51.0
6.90	65.2

EXTRACTOR VENTILATOR EV8



Bar	Vol out m³/min
4.14	56.6
5.52	76.5
6.90	96.3



Material: GRP.

Weight: 7Kg

dB(A) at: 5.5 bar is 75

Takes 305mm ducting

Standard Inlet Threads: G½

Option: ½" NPT

Please specify on order

**FOR ANTI-STATIC
EXTRACTOR VENTILATORS
— SEE PAGE 67**