



BECK
...AIR



Air Strips

Nozzles & Jets

Air Amplifiers & Conveyors

Fume Extractors & Ventilators

Energy Saving Controls

...air at work



...air at work

Welcome to the latest edition of the Beckair catalogue.

Our aim is to solve your cooling, drying, conveying, extracting, ventilating and cleaning applications with our flexible range of compressed air driven products.

Because we live in a world where energy usage is becoming a key issue for everyone and the pressures on industry are greater than ever, Beckair have been working hard to help you, our customers, become more efficient too.

Take our Neublade Air Strip. It gives excellent performance with significantly reduced air consumption using our patented air blade. Page 4 shows the significant savings in running costs compared to standard nozzles and blow offs.



Because this new technology uses the air in a more efficient way, noise levels are the lower than any other comparable product at only 65 dB (A) helping you to not only save costs but improve the working environment as well.

Our Airsaver control unit has been helping customers reduce air consumption in all kinds of processes by switching off the air when it isn't needed.....on a bottling line which has a break in production or stopped for example. Payback on this kind of investment can be a few weeks.

To help you identify potential areas for improvement, we've added an accurate, easy to use, flow measurement device to help you measure your air consumption on each process.

Now you can accurately cost all your processes and make accurate return on investment calculations for proposed improvements.



Take a look at our website for the latest news on products and applications

I. Roffe

Ian Roffe, Managing Director



FREE TECHNICAL HELP

let our engineers help you with your application



LIFETIME WARRANTY

for manufacturing defects



FAST DELIVERY

normally we aim to supply all standard products from our extensive stocks

www.beck-air.com

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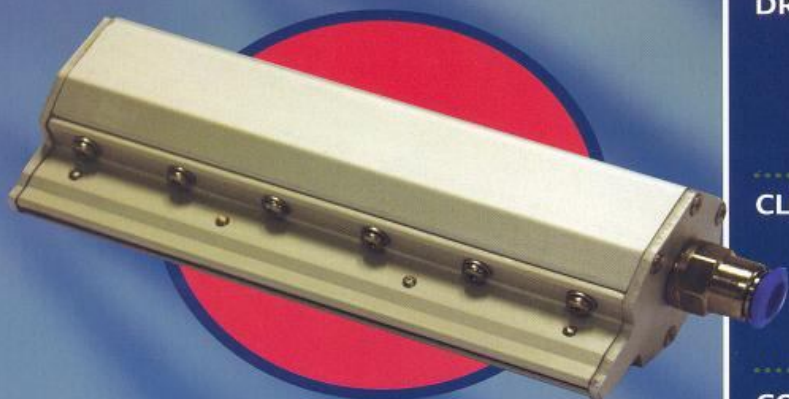
- Vacuum Cleaner ● ATEX Approved



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Neublade Airstrip

Not all compressed air products are the same...



A P P L I C A T I O N S

DRYING

Printing
Paints
Coatings
Components
Conveyor Belts

CLEANING

Components
Conveyors
Instruments Lens
Dust Removal
Waste Removal

COOLING

Components

AIR CURTAIN

Fume Containment
Heat Containment
from ovens and furnaces



HOW THE AIRSTRIP WORKS

The Neublade from Beckair utilises innovative technology developed to give the highest performance, lowest noise and lowest air consumption compared to any other product. The powerful, whisper-quiet blade of air is ideal for drying, cleaning, cooling or containing in all kinds of process, food and manufacturing applications.

Key to its performance is our flow straightening technology (Patent applied for) which provides an exceptionally laminar sheet of air. The low levels of turbulence also mean extremely low noise (65dB).

- No moving parts - means the Neublade is maintenance free
- Ultra low air consumption means significantly lower running costs than standard nozzles and strips
- Ultra-Quiet Operation (typically 65 dB) for an improved working environment
- Easily mounted onto existing installations
- Choice of air entry for maximum flexibility

TECHNICAL INFORMATION - NEUBLADE

PART NUMBER	LENGTH		INLET	AIR CONSUMPTION@4 BAR		NOISE DB(A)@1M
	MM	INCHES		SLPM	SCFM	
BNEUBLADE/80	80	3"	1/4" BSP + Push In Fitting	198	7	65
BNEUBLADE/150	150	6"	1/4" BSP + Push In Fitting	368	13	65
BNEUBLADE/300	300	12"	1/4" BSP + Push In Fitting	736	26	6
BNEUBLADE/450	450	18"	1/4" BSP + Push In Fitting	1104	39	65
BNEUBLADE/600	600	24"	1/4" BSP + Push In Fitting	1471	52	65
BNEUBLADE/750	750	30"	1/4" BSP + Push In Fitting	1839	65	65
BNEUBLADE/900	900	36"	1/4" BSP + Push In Fitting	2207	78	65
BNEUBLADE/1000	1000	39"	1/4" BSP + Push In Fitting	2462	87	65
BNEUBLADE/1200	1200	48"	1/4" BSP + Push In Fitting	2943	104	65

The Neublade is manufactured from extruded, anodised aluminium and comes complete with quick fit hose connector.

Because of the method of construction, we are able to offer the Neu-Blade in any length up to 2m long. Please call our sales team for further information.

How Neu-Blade can reduce your operating costs

TYPE OF AIR STRIP	AIR CONSUMPTION@4 BAR		NOISE LEVEL dB(A) @ 1M	POWER REQUIRED kW	RUNNING COSTS PER YEAR*		
	SLPM	SCFM			£	€	
5 Holes in 50mm length of Pipe (3mm or 1/8")	1980	70	95	10.0	960	1,440	1750
Standard Air Wipe (50mm)	450	16	85	2.3	220	330	395
Neublade (50mm)	124	4.5	65	0.65	62	93	110

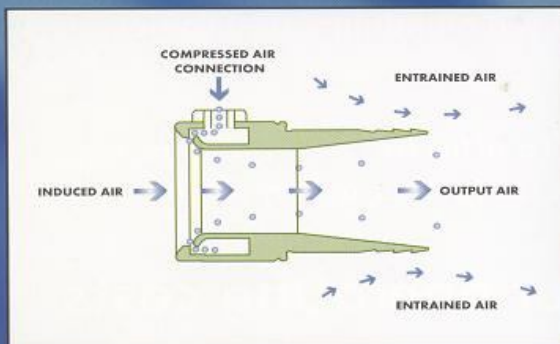
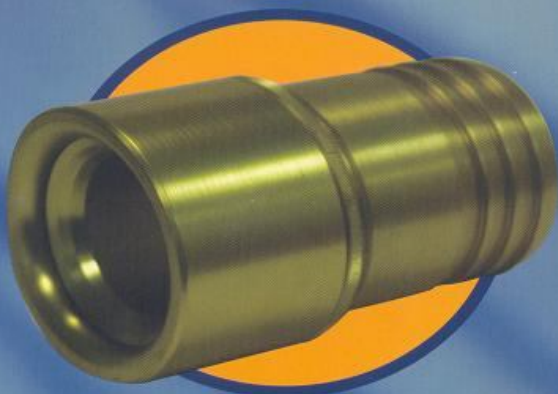
*Based on 40 hours per week, 48 weeks per year with an energy cost of around £0.05 (€ 0.08, \$0.09) per kWh



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Ringjet Air Amplifiers

Just as powerful and far more efficient than conventional nozzles...



HOW THE AIR AMPLIFIER WORKS

Ringjets Air Amplifiers are bladeless, motorless fans which can be used for cooling, extracting, drying and ventilating in process, food and manufacturing industries.

Using a small volume of compressed air as the power source, Ringjets utilise the "Coanda" effect to draw larger volumes of ambient air into the device to amplify the air flow by up to 25 times.

APPLICATIONS

COOLING
 Components
 Mouldings
 Extrusions
 People
 Components on Test

EXTRACTION
 Fumes
 Water
 Dust
 Waste Material

DRYING
 Components
 Printing
 Material



- No moving parts - means the Ringjet is maintenance free
- No electricity required - means they are safe to use in wet locations
- Adjustable flow control - using air gap and inlet pressure
- Energy efficient - means low running costs
- Low Cost
- Quiet Operation (less than 80 dB(A))

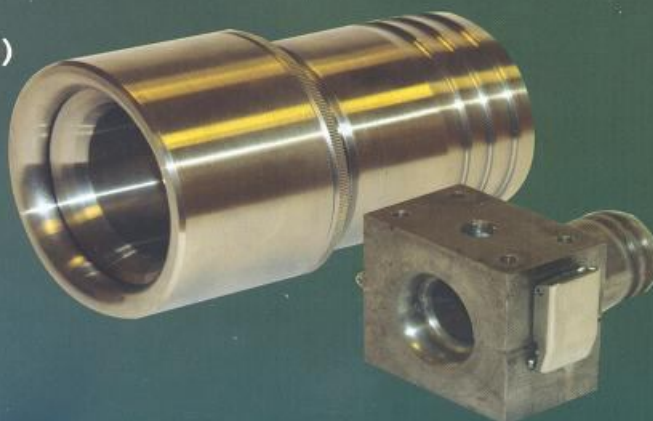
TECHNICAL INFORMATION - RINGJET AMPLIFIERS

PART NUMBER	THROAT DIAMETER		AIR INLET	AIR CONSUMPTION@4 BAR		OUTLET AIRFLOW		HOSE SIZE FOR DUCTING		DIAMETER		LENGTH		MATERIAL
	MM	INCHES	BSP	SLPM	SCFM	SLPM	SCFM	MM	INCHES	MM	INCHES	MM	INCHES	
BRJ12A	12	1/2"	1/8"	170	6	5,666	200	19	3/4"	25	1"	63	2-1/2"	Anodised Alloy
BRJ20A	20	3/4"	1/8"	283	10	6,800	240	32	1-1/4"	40	1-1/2"	63	2-1/2"	Anodised Alloy
BRJ25A	25	1"	1/4"	397	14	11,333	400	38	1-1/2"	50	2"	90	3-1/2"	Anodised Alloy
BRJ32A	32	1-1/4"	1/4"	455	16	12,742	450	45	1-3/4"	57	2-1/4"	95	3-3/4"	Anodised Alloy
BRJ40A	40	1-1/2"	1/4"	510	18	14,150	500	50	2"	63	2-1/2"	95	3-3/4"	Anodised Alloy
BRJ50A	50	2"	3/8"	962	34	20,666	730	76	3"	90	3-1/2"	135	5"	Anodised Alloy
BRJ75A	75	3"	1/2"	1416	50	33,333	1,178	100	4"	132	5"	165	6-1/2"	Anodised Alloy
BRJ12S/S	12	1/2"	1/8"	170	6	5,666	200	19	3/4"	25	1"	63	2-1/2"	Stainless Steel (316)
BRJ20S/S	20	3/4"	1/8"	283	10	6,800	240	32	1-1/4"	40	1-1/2"	63	2-1/2"	Stainless Steel (316)
BRJ25S/S	25	1"	1/4"	397	14	11,333	400	38	1-1/2"	50	2"	90	3-1/2"	Stainless Steel (316)
BRJ40S/S	40	1-1/2"	1/4"	510	18	14,150	500	50	2"	63	2-1/2"	95	3-3/4"	Stainless Steel (316)
BRJ50S/S	50	2"	3/8"	962	34	20,666	730	76	3"	90	3-1/2"	135	5"	Stainless Steel (316)

Standard Ringjets are manufactured in Anodised Alloy

Other options include;

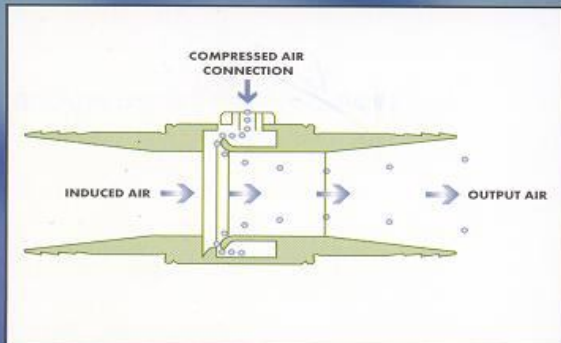
- Larger sizes (up to 250mm)
- NPT Threads
- Stainless Steel
- PVC
- Hinged Ringjet



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Ringjet Air Conveyors

Convey all kinds of parts and material...
without blowers, pumps or electricity



HOW THE RING JET AIR CONVEYORS WORKS

A P P L I C A T I O N S

CONVEYING Plastic Pellets
Waste Removal
Food Products
Pills and Tablets
Small Components
Dust
Liquids
Paper Trim

EXTRACTION Fumes
Liquids
Dust
Waste Material



Ringjets Air Conveyors are bladeless, motorless fans which connect to flexible hose and are ideal for conveying and extracting all kinds of materials in process, food and manufacturing industries.

Using a small volume of compressed air as the power source, Ringjets utilise the "Coanda" effect to draw larger volumes of ambient air into the device to amplify the air flow by up to 25 times.

Ringjet conveyors are capable of moving material over long distances and this can be increased by adding additional conveyors into the line

- No moving parts - means the Ringjet is maintenance free
- No electricity required - means they are safe to use with liquids and wet material
- Adjustable flow control - using air gap and inlet pressure
- Energy efficient - means low running costs
- Ideal for conveying over long distances
- Quiet Operation (less than 80 dB(A))

TECHNICAL INFORMATION - RINGJET CONVEYORS

PART NUMBER	THROAT DIAMETER		AIR INLET	AIR CONSUMPTION@4 BAR		OUTLET AIRFLOW		HOSE SIZE FOR DUCTING		DIAMETER		LENGTH		MATERIAL
	MM	INCHES	BSP	SLPM	SCFM	SLPM	SCFM	MM	INCHES	MM	INCHES	MM	INCHES	
BRJ12C	12	1/2"	1/8"	170	6	5,666	200	19	3/4"	25	1"	95	3-3/4	Anodised Alloy
BRJ20C	20	3/4"	1/8"	283	10	6,800	240	32	1-1/4"	40	1-1/2"	95	3-3/4	Anodised Alloy
BRJ25C	25	1"	1/4"	397	14	11,333	400	38	1-1/2"	50	2"	135	5-1/4	Anodised Alloy
BRJ32C	32	1-1/4"	1/4"	455	16	12,742	450	45	1-3/4"	57	2-1/4"	135	5-1/4	Anodised Alloy
BRJ40C	40	1-1/2"	1/4"	510	18	14,150	500	50	2"	63	2-1/2"	135	5-1/4	Anodised Alloy
BRJ50C	50	2"	3/8"	962	34	20,666	730	76	3"	90	3-1/2"	203	8	Anodised Alloy
BRJ75C	75	3"	1/2"	1416	50	33,333	1,178	100	4"	132	5"	248	9-3/4	Anodised Alloy
BRJ12CS/S	12	1/2"	1/8"	170	6	5,666	200	19	3/4"	25	1"	63	3-3/4	Stainless Steel (316)
BRJ20CS/S	20	3/4"	1/8"	283	10	6,800	240	32	1-1/4"	40	1-1/2"	63	3-3/4	Stainless Steel (316)
BRJ25CS/S	25	1"	1/4"	397	14	11,333	400	38	1-1/2"	50	2"	90	5-1/4	Stainless Steel (316)
BRJ40CS/S	40	1-1/2"	1/4"	510	18	14,150	500	50	2"	63	2-1/2"	95	5-1/4	Stainless Steel (316)
BRJ50CS/S	50	2"	3/8"	962	34	20,666	730	76	3"	90	3-1/2"	135	8	Stainless Steel (316)

Standard Ringjet Conveyors are manufactured in Anodised Alloy

Other options include;

- Larger sizes (up to 250mm)
- NPT Threads
- Stainless Steel
- PVC
- Flanged Conveyor - Suitable for quick Release connectors

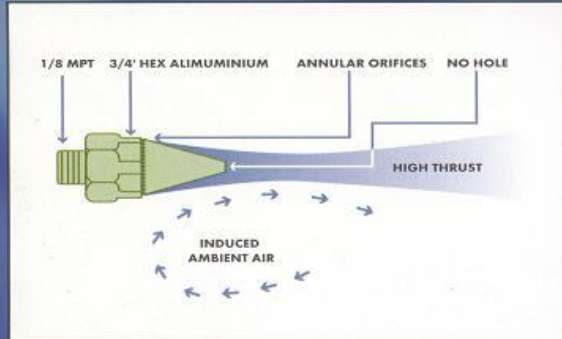
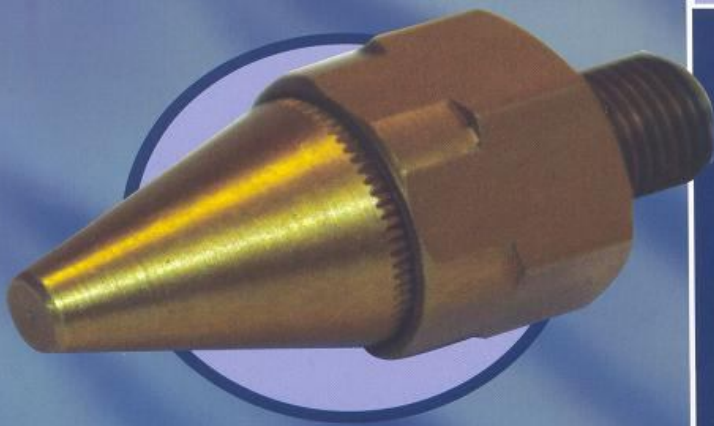


For even higher conveying performance, take a look at our Pneu-power conveyor



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Airmiser Nozzles, Jets and Handguns



HOW THE AIRMISER WORKS

A P P L I C A T I O N S

BLOW OFF	Water Swarf Waste Cutting Fluid
CLEANING	Components Conveyors Dust Removal Waste Removal
COOLING	Components
DRYING	Paint Coatings



The Airmiser uses a series of annular nozzles instead of a single hole to create a safer, more energy efficient, lower noise alternative to open tubes and pipes.

A small volume of compressed air is amplified up to 25 times by utilising the Coanda effect to induce a higher flow of ambient air into the air stream.

Because of the risk of serious injury from compressed air entering the bloodstream from single open pipes at high pressures, the multi-nozzle arrangement of the airmiser is designed to be much safer alternative.

Replacing open jets with airmisers will give significantly reduced air consumption and lower noise levels and in most cases it is a simple operation to install airmiser nozzles.

Airmisers are suitable for use individually or in multiple arrays to create a much greater effect.

- No moving parts - means the airmiser is maintenance free
- Low air consumption means significantly lower running costs than open holes and pipes
- Quieter Operation (below 80 dB (A) at 1m) for an improved working environment
- Easily mounted onto existing installations

Airmiser jets use the proven technology from the Ringjets to create a high velocity flow where greater performance is required for blow off and cooling applications.



The Safety Hand Gun uses the same technology as the Airmiser but with the convenience of an ergonomic handle making it a useful general purpose blow off tool.

The Neublade is particularly suitable for paint drying applications in either hand held or stand mounted format.



TECHNICAL INFORMATION - AIRMISER NOZZLES, JETS AND HANDGUNS

PART NUMBER	AIR INLET BSP	AIR CONSUMPTION@5BAR		THRUST		NOISE DB(A)@1M
		SLPM	SCFM	N	LBF	
AIRMISER NOZZLES						
BAMSA	1/8"	225	8	1.8	0.4	65
BAMBH	1/4"	566	20	5.2	1.2	74
BAMSASS	1/8"	225	8	1.8	0.4	65
BAMBHSS	1/4"	566	20	5.2	1.2	74
AIRMISER JET						
BRJ6A	1/8"	113	4			70
SAFETY HAND GUN						
BAIRGUNSN2	1/4"	170	6			75



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Airsaver Flowmeter

Understanding how much compressed air your existing processes use quickly identifies areas for energy savings...



A P P L I C A T I O N S

- Measure compressed air use
- Determine potential savings
- Calculate accurate payback

Understanding how much compressed air your existing processes use quickly identifies areas for energy savings.....

The Airsaver flowmeter from Beckair is an easy to use, digital flow meter designed to measure the compressed air flow.

By simply placing the flow meter in the line to be analysed, the air flow can be measured and an assessment be made on efficiency of the process. It is especially suitable for home made devices where no performance figures exist.

Potential upgrades to equipment can then be cost justified and payback periods calculated accurately.

The unit has an integral 4-digit display which allows information to be gathered at the point of measurement.

Peak, present and average consumption can all be monitored and there are programmable alarm functions should air consumption rise over set limits indicating a leak or malfunction.

The unit is powered by a 24v DC supply and all settings can be protected using an electronic lock. With protection to IP65, it can be used in most environments.

The device can also be connected to a data-logger and the results downloaded for further analysis.

- Measure compressed air easily where it is used
- Detect even small leaks and repair in good time
- Determine potential for efficiency savings
- Calculate accurately payback on investment proposals

AirSaver Control Unit

Take control of your compressed air and processes and save both energy and cost...



A P P L I C A T I O N S

Eliminate the waste of compressed air when it is not needed.

- Line Stops

- No Product on the line

- Turning air off for part of a process cycle

Take control of your compressed air processes and save both energy and cost....

The AirSaver is a compressed air control device designed to switch off the compressed air supply when it is not needed.

Many industrial processes use compressed air continuously even when the production process has stopped, no parts are present or the air is only used for part of the cycle.

By using the AirSaver with a sensor (or linking to the machine control), the compressed air can be switched off when not needed giving reduced consumption and cost. The software analyses the sensor to detect both line stops and no products.

The AirSaver can be used with a variety of sensors and has an inbuilt timer to control how quickly the unit will respond to the sensor and shut off the air supply. Start up is instantaneous once a moving object is sensed again.

One AirSaver can operate up to 3 valves.

The sensor unit operates from a 24v DC supply and power supplies can be provided as options for both 110v and 230v AC.

- Compressed Air is expensive - helps to reduce costs
- Payback as short as 3 months depending on application
- Easily mounted onto existing installations
- IP65 for use in most environments



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Pneu-Power

High suction conveying without the hassle of pumps, blowers or electricity...



A P P L I C A T I O N S

CONVEYING Tank Filling/Emptying
Hopper Loading
Powder
Granules
Swarf Removal
Dust
Liquids

EXTRACTION Fumes
Liquids
Dust
Waste Material



The Beckair Pneu-Power is a bladeless, motorless fan which connects to flexible hose and gives high vacuum or high flow for conveying and extracting all kinds of materials in process, food and manufacturing industries.

Using a small volume of compressed air as the power source, the Pneu-Power utilises the "Coanda" effect to draw larger volumes of ambient air into the device to amplify the air flow by up to 25 times.

The Pneu-Power has very high performance and is capable of moving material over very long distances

- No moving parts - means the Pneu-Power is maintenance free
- No electricity required - means they are safe to use with liquids and wet material
- Adjustable flow control - using air valve and inlet pressure
- Energy efficient - means low running costs
- Quiet Operation (less than 80 dB(A))

TECHNICAL INFORMATION - PNEU-POWER

PART NUMBER	AIR INLET BSP	AIR CONSUMPTION @ 6 BAR		OUTLET AIR FLOW		VACUUM		
		SLPM	SCFM	SLPM	SCFM	MM WG	INCH WG	INCH HG
BPNEUPOWERA	1/4"	885	31	2250	80	2072	82	6
BPNEUPOWERB	1/4"	885	31	900	32	5700	224	16.5

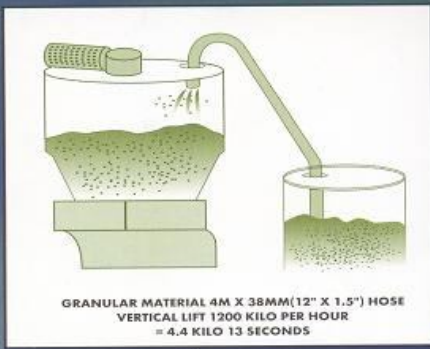
The Pneu-Power is extremely robust, being manufactured from cast aluminium and is designed for use in harsh environments.



Type A offers higher flows, Type B offers higher suction

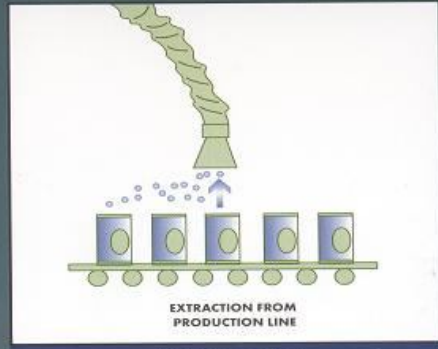
For applications where extraction only is required, the silencer (supplied) diffuses the air and reduces the noise from the device.

THE PNEU-POWER IN USE



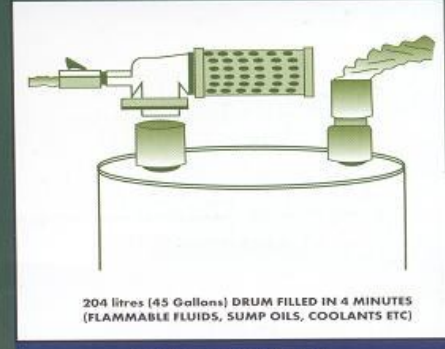
GRANULAR MATERIAL 4M X 38MM (12" X 1.5") HOSE
VERTICAL LIFT 1200 KILO PER HOUR
= 4.4 KILO 13 SECONDS

DRUM FILLING



EXTRACTION FROM
PRODUCTION LINE

EXTRACTING



204 litres (45 Gallons) DRUM FILLED IN 4 MINUTES
(FLAMMABLE FLUIDS, SUMP OILS, COOLANTS ETC)

HOPPER LOADING



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Clustajet Ventilators

High performance ventilation and extraction...without motors or electricity



Clustajet ventilators are a compressed air operated fan which utilise our Ringjet technology to create a robust, maintenance free, high performance ventilator.

Because the Clustajet uses compressed air, no electrical supply is needed making it suitable for safe use in damp or wet locations.

Multiple Ringjets are positioned inside a steel casing to create a space rocket jet effect which gives the unit it's high performance. For a given airflow, Clustajets are lighter in weight and smaller than equivalent electric fans.

A P P L I C A T I O N S

EXTRACTION Welding Fumes
Solvent Vapours
Dust

VENTILATING Confined Spaces
Tanks
Sewers
Tunnels

COOLING Components
Pipework



It is particularly suitable for use in hazardous areas and longer distances can be covered by placing multiple units in series along the ductwork or flexible hose.

As a general guide, one unit will be required for every 25m.

Generally, we recommend ventilation of confined spaces by extraction of contaminated air, allowing fresh air to flow in by natural means.

Clustajets also provide a cool, high volume stream of air which is suitable for cooling components, processes and drying.

- No moving parts - means the Clustajet is maintenance free
- No electricity required - means they are safe to use in damp or wet locations
- Adjustable flow control - using the control valve

TECHNICAL INFORMATION - CLUSTAJET VENTILATORS

PART NUMBER	HOSE SIZE		AIR INLET BSP	AIR CONSUMPTION @ 4 BAR		OUTLET AIR FLOW		DIAMETER		DIMENSIONS HEIGHT		LENGTH	
	MM	INCHES		SLPM	SCFM	SLPM	SCFM	MM	INCHES	MM	INCHES	MM	INCHES
	BCJ425	102	4"	1/4"	395	14	12,700	450	102	4"	180	7"	230
BCJ620	152	6"	1/2"	1130	40	18,400	650	152	6"	254	10"	356	14"
BCJ825	203	8"	1"	2265	80	34,800	1230	203	8"	305	12"	457	18"
BCJ1250	305	12"	1"	5375	190	87,750	3100	305	12"	406	16"	508	20"

Standard Clustajets are manufactured from a strong welded steel casing.

Other options include;

- Plastic
- Flexible Hose



See page 17 of this catalogue for further details.

For even higher vacuum/suction conveying performance, also take a look at our Pneu-power conveyor



If you have special requirements, please call our technical support engineer who will be pleased to assist you.

Accessories

Beckair offers a general purpose flexible hose for use with the Clustajet ventilators. Manufactured from pvc coated glass cloth supported by a high tensile steel wire, it is flexible with a high resistance to puncture and tearing. It is fire resistant and suitable for use between - 20°C and + 70°C (- 4°F and + 158°F).



Standard lengths are 6m or 10m and hose connectors can be used to create longer lengths when required. Stainless steel clips are also available to complete installation.

TECHNICAL INFORMATION - CLUSTAJET HOSE

PART NUMBER	HOSE DIAMETER		HOSE LENGTH		HOSE CONNECTOR PART NUMBER	HOSE CLIP (STAINLESS STEEL) PART NUMBER
	MM	INCHES	M	FT		
BHSC6M102	102	4"	6	20'	BHSCON102	BLSB102S/S
BHSC6M152	152	6"	6	20'	BHSCON152	BLSB152S/S
BHSC6M203	203	8"	6	20'	BHSCON203	BLSB203S/S
BHSC6M305	305	12"	6	20'	BHSCON305	BLSB305S/S
BHSC10M102	102	4"	10	33'	BHSCON102	BLSB102S/S
BHSC10M152	152	6"	10	33'	BHSCON152	BLSB152S/S
BHSC10M203	203	8"	10	33'	BHSCON203	BLSB203S/S
BHSC10M305	305	12"	10	33'	BHSCON305	BLSB305S/S

Rigiflex "Stay Put" Hoses



Rigiflex hoses are designed to work with Beckair nozzles, air amplifiers and small air strips to allow easy mounting into the required location without further support. Adjustments to the position can then be quickly made at any time to improve the performance of the device.

Manufactured from a composite pvc/aluminium it is impervious to most chemical containing atmospheres and comes complete with a male and female compressed air fitting for use with Beckair nozzles, ringjets and airstrips.

TECHNICAL INFORMATION - RIGIFLEX HOSE

PART NUMBER	HOSE DIAMETER		HOSE LENGTH		CONNECTIONS	
	MM	INCHES	MM	INCHES	BSP	BSP
BHSRX25	6	1/4"	300	12"	1/4" Male	1/4" Female
BHSRX31	8	5/16"	300	12"	1/4" Male	1/4" Female
BHSRX37	10	3/8"	300	12"	1/4" Male	1/4" Female

Midgivac

ATEX Approved Vacuum Cleaner

Compact, Lightweight Vacuum Cleaner for confined spaces or hazardous locations...



A P P L I C A T I O N S

VACUUM CLEANER FOR REMOVING;

- Swarf
- Debris
- Dust

Compact, lightweight vacuum cleaner for confined spaces or hazardous locations...

Midgivac is a small, compact compressed air driven vacuum cleaner designed for removing debris including glass, swarf, metal chippings, plastic particles, dust and powder.

ATEX approved, it is suitable for use in Gas Zone 2 and Dust Zone 22.

Because it needs no electrical supply, it is also ideally suited to damp or wet locations and its' compact design allows it to easily get into confined spaces.

The Midgivac comes with a selection of tools including crevice tool, flexible tube and dust bag.

TECHNICAL INFORMATION - MIDGIVAC ATEX APPROVED VACUUM CLEANER

PART NUMBER	AIR INLET BSP	AIR CONSUMPTION @ 6 BAR		OUTLET AIR FLOW		VACUUM		
		SLPM	SCFM	SLPM	SCFM	MM WG	INCH WG	INCH HG
BMIDGIVAC	1/4"	707	25	1333	47	3500	14	1



If you have special requirements, please call our technical support engineer who will be pleased to assist you.



PROFEN
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