

Energy Saving Controls

...air at work



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BECK ...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

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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Midgivac Vacuum Cleaner

Vacuum CleanerATEX Approved

Neublade Airstrip

Not all compressed air products are the same...



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 it's 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	LE	NGTH	INLET	AIR CONSUMP	TION@4 BAR	NOISE
	MM	INCHES		SLPM	SCFM	DB(A)@1M
BNEUBLADE/80	80	3"	1/4" BSP + Push In Fitting	140	5	65
BNEUBLADE/150	150	6"	1/4" BSP + Push In Fitting	256	9	65
BNEUBLADE/300	300	12"	1/4" BSP + Push In Fitting	510	18	65
BNEUBLADE/450	450	18"	1/4" BSP + Push In Fitting	765	27	65
BNEUBLADE/600	600	24"	1/4" BSP + Push In Fitting	1020	36	65
BNEUBLADE/750	750	30"	1/4" BSP + Push In Fitting	1302	46	65
BNEUBLADE/900	900	36"	1/4" BSP + Push In Fitting	1557	55	65
BNEUBLADE/1000	1000	39"	1/4" BSP + Push In Fitting	1727	61	65
BNEUBLADE/1200	1200	48"	1/4" BSP + Push In Fitting	2067	73	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 CONSUM	PTION@4 BAR	NOISE LEVEL	POWER REQUIRED	RUI	NNING COSTS P	ER YEAR*
	SLPM	SCFM	dB(A) @ 1M	kW	£	€	\$
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

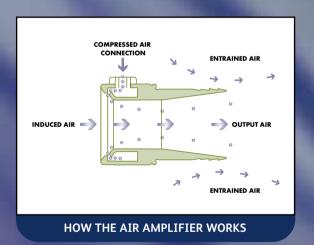




Ringjet Air Amplifiers

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





COOLING Components Mouldings **Extrusions** People **Components on Test EXTRACTION** Fumes Water Dust **Waste Material DRYING Components** Printing Material

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.

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- 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	THROAT	DIAMETER	AIR INLET	AIR CONSUMPT	TION@4 BAR	OUTLET All	RFLOW	HOSE SIZI	FOR DUCTING	DIA	METER	LEN	GTH	MATERIAL
NUMBER	MM	INCHES	BSP	SLPM	SCFM	SLPM	SCFM	MM	INCHES	MM	INCHES	MM	INCHES	
BRJ12A	12	1/2"	1/8"	85	3	2550	90	19	3/4"	25	1"	55	2-1/4"	Anodised Alloy
BRJ20A	20	3/4"	1/8"	142	5	3400	120	32	1-1/4"	40	1-1/2"	65	2-1/2"	Anodised Alloy
BRJ25A	25	1"	1/4"	198	7	5500	196	38	1-1/2"	50	2"	85	3-1/4"	Anodised Alloy
BRJ40A	40	1-1/2"	1/4"	481	17	10600	374	50	2"	63	2-1/2"	95	3-1/2"	Anodised Alloy
BRJ50A	50	2"	3/8"	708	25	17000	600	76	3"	90	3-1/2"	135	5"	Anodised Alloy
BRJ75A	75	3"	1/2"	1416	50	33333	1178	100	4"	132	5"	165	6-1/2"	Anodised Alloy
BRJ12S/S	12	1/2"	1/8"	85	3	2550	90	19	3/4"	25	1"	55	2-1/4"	Stainless Steel (304)
BRJ20S/S	20	3/4"	1/8"	142	5	3400	120	32	1-1/4"	40	1-1/2"	65	2-1/2"	Stainless Steel (304)
BRJ25S/S	25	1"	1/4"	198	7	5500	196	38	1-1/2"	50	2"	85	3-1/4"	Stainless Steel (304)
BRJ40S/S	40	1-1/2"	1/4"	481	17	10600	374	50	2"	63	2-1/2"	95	3-1/2"	Stainless Steel (304)
BRJ50S/S	50	2"	3/8"	708	25	17000	600	76	3"	90	3-1/2"	135	5"	Stainless Steel (304)
BRJ75S/S	75	3"	1/2"	1416	50	33333	1178	100	4"	132	5"	165	6-1/2"	Stainless Steel (304)

Standard Ringjets are manufactured in Anodised Alloy

Other options include;

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

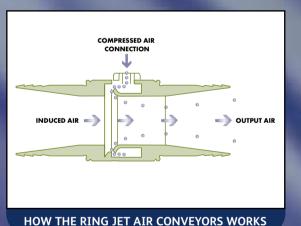




Ringjet Air Conveyors

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





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

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- 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	THROAT	DIAMETER	AIR INLET	AIR CONSUMF	PTION@4 BAR	OUTLET A	IRFLOW	HOSE SIZ	ZE FOR DUCTING	DIA	AMETER	LEN	IGTH	MATERIAL
NUMBER	MM	INCHES	BSP	SLPM	SCFM	SLPM	SCFM	MM	INCHES	MM	INCHES	MM	INCHES	
BRJ12C	12	1/2"	1/8"	85	3	2550	90	19	3/4"	25	1"	74	3"	Anodised Alloy
BRJ20C	20	3/4"	1/8"	142	5	3400	120	32	1-1/4"	40	1-1/2"	90	3-1/2"	Anodised Alloy
BRJ25C	25	1"	1/4"	198	7	5500	196	38	1-1/2"	50	2"	118	4-3/4"	Anodised Alloy
BRJ40C	40	1-1/2"	1/4"	481	17	10600	374	50	2"	63	2-1/2"	123	5"	Anodised Alloy
BRJ50C	50	2"	3/8"	708	25	17000	600	76	3"	90	3-1/2"	206	8"	Anodised Alloy
BRJ75C	75	3"	1/2"	1416	50	33333	1178	100	4"	132	5"	259	10-1/4"	Anodised Alloy
BRJ12CS/S	12	1/2"	1/8"	85	3	2550	90	19	3/4"	25	1"	74	3"	Stainless Steel (304)
BRJ20CS/S	20	3/4"	1/8"	142	5	3400	120	32	1-1/4"	40	1-1/2"	90	3-1/2"	Stainless Steel (304)
BRJ25CS/S	25	1"	1/4"	198	7	5500	196	38	1-1/2"	50	2"	118	4-3/4"	Stainless Steel (304)
BRJ40CS/S	40	1-1/2"	1/4"	481	17	10600	374	50	2"	63	2-1/2"	123	5"	Stainless Steel (304)
BRJ50CS/S	50	2"	3/8"	708	25	17000	600	76	3"	90	3-1/2"	206	8"	Stainless Steel (304)
BRJ75CS/S	75	3"	1/2"	1416	50	33333	1178	100	4"	132	5"	259	10-1/4"	Stainless Steel (304)

Standard Ringjet Conveyors are manufactured in Anodised Alloy

Other options include;

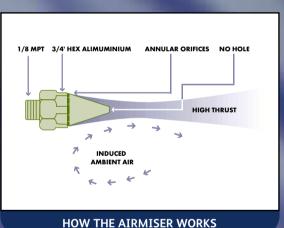
- Larger sizes (up to 250mm)
- NPT Threads
- Stainless Steel
- PVC
- Flanged Conveyor Suitable for quick Release connectors

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



Airmiser Nozzles, Jets and Handguns





BLOW OFF Water Swarf **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.

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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	AIR CONSUM	PTION@5BAR	THR	UST	NOISE
	BSP	SLPM	SCFM	N	LBF	DB(A)@1M
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



Airsaver Flowmeter

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



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.

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

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

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...



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.



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

- Line Stops
- No Product on the line
- Turning air off for part
 of α process cycle

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



Pneu-Power

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



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	AIR CONSUMP	OUTLET A	AIR FLOW	VACUUM			
	BSP	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.

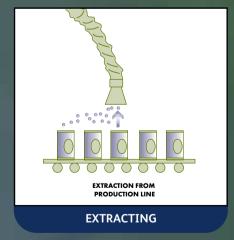


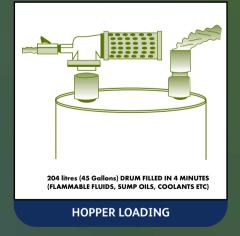
Type A offers higher flows, Type B offers higher suction

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









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	ICATIONS
EXTRACTION	Welding Fumes Solvent Vapours Dust
VENTILATING	Confined Spaces Tanks Sewers Tunnels
COOLING	Components Pipework
THE PROPERTY OF SEPTICAL PROPE	FAST DELIVERY WARRANTY

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	HOSI	E SIZE	AIR INLET	AIR CONS		OUTLET AIR FLOW		OUTLET AIR FLOW		OUTLET AIR FLOW		DIA	DIAMETER			DIMENSIONS HEIGHT LENGTH		
	MM	INCHES	BSP	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	9"					
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"	4250	150	72200	2550	305	12"	406	16"	508	20"					

Standard Clustajets are manufactured from a strong welded steel casing.

Other options include;



Flexible Hose



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





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 DIA	METER	HOSE LE	NGTH	HOSE CONNECTOR	HOSE CLIP (STAINLESS STEEL)
	MM	INCHES	M	FT	PART NUMBER	PART NUMBER
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 DIA	METER	HOSEL	.ENGTH	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...



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

