



techhose

QUALITY CONNECTIONS

Hydraulics

Pneumatics
& Vacuum

Industrial

Compressed Air
& Ring Main

Process &
Instrumentation

Blow Guns, Vacuum & Nozzles

Air Jets, Movers, Knives & Amplifier

Air Jets

- Drying/removing liquid films from surfaces
- Controlling the coating of surfaces
- Blowing off/removing dust and debris
- Cooling or heating of materials
- Separating different weights or sizes



BSPP

0424	Thread	Material
PFFN-1/4	1/4"	Plastic
AFFN-1/4	1/4"	Aluminium

AIR JETS



Air jets utilise the Coanda effect (wall attachment of a high velocity fluid) to produce air motion in their surroundings. A small amount of compressed air is forced through an internal ring nozzle above sonic velocity. A vacuum is produced, pulling large volumes of surrounding or free air through the jet.

Multi-channel Flat Fan Nozzle

Powerful air jet, acting upon areas. Low noise level, low air consumption.

Applications: blowing off and blowing out, cleaning, drying, cooling, conveying with air.



BSPP

0025	Thread	Material
60013056AC	1/4"	Plastic/Pom
60028342AC	1/4"	Aluminium

Tech Sheet 20087

Multi-channel Round Jet Nozzle

The multi-channel round jet nozzles of the 600.326 series generate a powerful, circular air jet. The noise level and air consumption remain low even at higher air pressures. The special geometry at the nozzle outlet prevents air penetration into human skin. These nozzles comply with the OSHA standards.

Applications: targeted blowing out and blowing off with compressed air guns.

Reduction of noise level of up to 12db(a).



Plastic/Pom

BSPP

0025	Thread	Material
60032656AC	1/4"	Plastic/Pom
6003263WAC	1/4"	Zinc

Tech Sheet 20087

Mini Round Jet Nozzle

Applications: especially for blowing out pocket holes.



BSPP

0025	Thread	Material
60038830AA	1/8"	Brass/Pom

Tech Sheet 20087

BLOW GUNS & AIR NOZZLES

Silvent Air Nozzles

These popular nozzles are installed in thousands of different applications. The protective flanges prevent direct contact between skin and exhaust ports.



1/4" BSPP Hole Nozzles

0165	Nozzle
SIL-208	Female Zinc
SIL-209	Male Zinc
SIL-210	Female Aluminium
SIL-211	Male Aluminium
SIL-215	Female Nickel
SIL-216	Male Nickel
SIL-218	Male Rilsan
Tech Sheet 10752	

Its aerodynamic slots achieve optimal utilization of the compressed air while keeping the noise level to a minimum.

stainless steel



1/2" BSPP, 700 Series Stainless Steel Nozzle

0165	Length mm
SIL-705	29
Tech Sheet 10762	

These flat nozzles are designed to generate a broad and efficient fan of air. They are outstanding for use wherever a wide but thin striking surface is required.



900 Series Flat Nozzle, BSPP

0165	Thread	Material	Nozzle
SIL-921	1/8"	Zinc	Flat Male
SIL-920B	1/8"	Zinc	Flat Female
SIL-920A	1/4"	Zinc	Flat Male
SIL-9002W	1/4"	Zytel	Flat Male
Tech Sheet 10763			

Available with or without flow regulation. Built-in flow regulation allows optimal utilization of compressed air. Adjusting the blowing force minimizes both energy consumption and noise level.

stainless steel



900 Series Flat Nozzle, Stainless Steel, BSPP

0165	Thread	Nozzle
SIL-973	1/4"	Flat Male
SIL-973F	1/4"	Flat Male with Regulation
Tech Sheet 10768		

A small angled flat nozzle that generates a broad but thin air cone. The small mounting dimensions are especially suitable for machine designs where space is limited.



1/8" Angled Flat Nozzle

0165	
SIL-961	
Tech Sheet 10753	

Allows quick and easy adjustment to the blowing angle. Maintains the desired position, even at high pressures. Available in six standard lengths.

Sound Level: 78 dB(A).

Maximum Pressure: 1 MPa.



3/8" BSPP, Magnetic Base with Single Flexbow Hose

0165	Length mm
SIL-221-L	200
SIL-231-L	300
SIL-241-L	490
SIL-251-L	590
Tech Sheet 67993	

Silvent Air Knives

Aluminium manifolds are used to build the air knives. The length of the manifold and the number of nozzles can be tailored to each customer's specific needs



3/8" BSPP Flat Nozzle Air Knives

0165	Nozzle
SIL-392	2
SIL-394	4
SIL-396	6
Tech Sheet 10765	



Angled Nozzle Air Knives

0165	Nozzle
SIL-362	2
SIL-364	4
SIL-366	6
Tech Sheet 10756	

Blow Gun Pressure Reducers



0165	Thread In/Out	Outlet Pressure
DRV13/30	1/4"	3
PRO4/04	1/4"	4
DRV13/50	1/4"	5
DRV13/60	1/4"	6

Nozzle Ball Joints



0165	Material	Thread BSPP
092.024.30.AC	Brass	1/4" MF

Test Equipment

Simply insert the end of the blow gun into the rubber tip and operate the gun to give test reading.



OSHA Gauge

0165	
SIL-OSH	
Tech Sheet 10757	

AIR MOVERS

Brauer airmovers have many uses such as: drying wet surfaces, blowing off and cleaning mechanical parts, cooling moulds, fume extraction and venting tanks.

Material: zinc alloy.
Standard Gap: 0.05mm (0.15mm for AM125).
DBA Quoted at: 5.5 bar.

Air Movers

Note: BR-AM35 shims not required.
BR-AM75 spare shims available.



Standard Fixed Gap Air Movers, BSPP

0119	Thread	DBA
BR-AM10	1/8"	72
BR-AM20	1/4"	79
BR-AM35	3/8"	80
BR-AM40	3/8"	80
BR-AM75	1/2"	80

Tech Sheet 2046

Strip air movers produce a curtain of air along the length of the application. The strip air mover uses the same Coanda effect utilised in our other air amplifiers.

No moving parts – compressed air from a local production line source can be utilised. Output volumes almost twenty times higher.

Highly efficient – significant compressed air savings can be achieved with short investment paybacks. Low noise levels. Stainless steel options.

Manufactured in any length from a combination of our standard sizes.

Material: aluminium/zinc-plated steel.

Standard Gap: 0.05-0.10mm.

DBA at 5.5 bar: 80

Shims: not required.

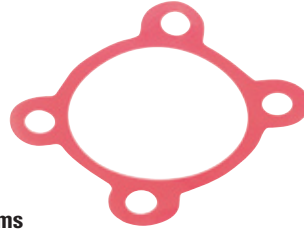
Standard Inlet Thread: 1/4" BSPP.



Strip Air Movers, BSPP

0119	Length mm	Thread
BR-SE150	150	1/4"
BR-SE300	300	1/4"
BR-SE450	450	1/4"
BR-SE600	600	1/4"

Tech Sheet 10790



Spare Shims

0119	To Suit	Size mm
BR-SH10/1.5	BR-AM10	1.5
BR-SH10/2	BR-AM10	2
BR-SH10/3	BR-AM10	3
BR-SH20/1.5	BR-AM20	1.5
BR-SH20/2	BR-AM20	2
BR-SH40/1.5	BR-AM40	1.5
BR-SH40/2	BR-AM40	2
BR-SH40/3	BR-AM40	3



Universal Connector Joints

0119	Thread
BR-AM40UJ	3/8"

Tech Sheet 10793



Magnetic Base

0119
BR-MAGNETICBASEM

Adjustable Air Movers

Note: shims not applicable.



Aluminium Alloy, BSPP

0119	Thread	DBA
BR-AM10A	1/8"	73
BR-AM20A	1/4"	79
BR-AM35A	3/8"	80
BR-AM60A	3/8"	80
BR-AM75A	1/2"	80

Tech Sheet 20370

stainless steel



Stainless Steel, BSPP

0119	Thread	DBA
BR-SS60A	3/8"	80
BR-SS75A	1/2"	81

Tech Sheet 20371

Blow Guns



Trigger Action, BSPP

0119	Thread
BR-AG32LC	1/4"

Tech Sheet 20374

AIR KNIVES & AMPLIFIERS



Neublade Airstrip

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.

The 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 – the Neublade is maintenance free
- Ultra low air consumption – 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

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 Neublade in any length up to 2m long. Please call our sales team for further information.

Applications

- 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

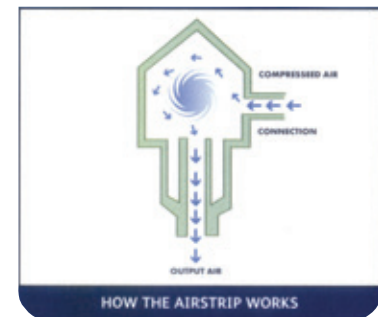
How Neublade can reduce your operating costs

Type of Airstrip	Type of Airstrip		Noise Level Db(A) at 1M	Power Required kW SLPM	Running Costs per Year*
	SLPM	SCFM			
5 holes in 50mm length of pipe (3mm or 1/8")	1980	70	95	10.0	£960
Standard air wipe (50mm)	450	16	85	2.3	£220
Neublade (50mm)	124	4.5	65	0.65	£62

*Based on 40 hours per week, 48 weeks per year with an energy cost of around £0.05 per kWh.

BSP Ports

9039	Length		Inlet	Air Consumption @ 4 bar		Noise Db (A) at 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	65
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

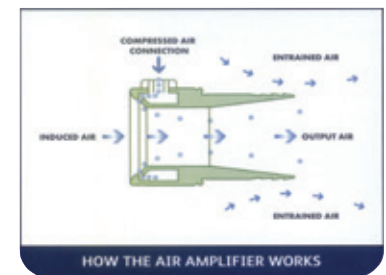


Ringjet Air Amplifier

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

- No moving parts – Ringjet is maintenance free
- No electricity required – safe to use in wet locations
- Adjustable flow control using air gap and inlet pressure
- Energy efficient – low running cost
- Low cost
- Quiet operation (less than 80 dB (A))
- Also available in stainless steel



Applications

- Cooling: components, mouldings, extrusions, people, components on test
- Extraction: fumes, water, dust, waste material
- Drying: components, printing, material



BSP Ports

9039	Throat Diameter mm	Air Inlet BSP	Air Consumption @ 4 bar		Outlet Airflow		Hose Size for Ducting		OD mm	Length mm	Material
			SLPM	SCFM	SLPM	SCFM	mm	Inches			
BRJ12A	12	G1/8"	170	6	5,666	200	19	3/4"	25	63	Anodised Alloy
BRJ20A	20	G1/8"	283	10	6,800	240	32	1.1/4"	40	63	Anodised Alloy
BRJ25A	25	G1/4"	397	14	11,333	400	38	1.1/2"	50	90	Anodised Alloy
BRJ40A	40	G1/4"	510	18	14,150	500	50	2"	63	95	Anodised Alloy
BRJ50A	50	G3/8"	962	34	20,666	730	76	3"	90	135	Anodised Alloy
BRJ75A	75	G1/2"	1416	50	33,333	1,178	100	4"	132	165	Anodised Alloy
BRJ12S/S	12	G1/8"	170	6	5,666	200	19	3/4"	25	63	Stainless Steel (316)
BRJ20S/S	20	G1/8"	283	10	6,800	240	32	1.1/4"	40	63	Stainless Steel (316)
BRJ25S/S	25	G1/4"	397	14	11,333	400	38	1.1/2"	50	90	Stainless Steel (316)
BRJ40S/S	40	G1/4"	510	18	14,150	500	50	2"	63	95	Stainless Steel (316)
BRJ50S/S	50	G3/8"	962	34	20,666	730	76	3"	90	135	Stainless Steel (316)



AIR KNIVES & AMPLIFIERS



Ringjet Air Conveyors

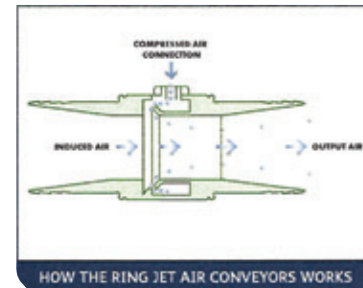
Ringjets air conveyors are bladeless, motorless fans which connect to flexible hose and are ideal for conveying and extracting all kinds of materials in process, food and manufacturing industries. Using a small volume of compressed air as the power source, Ringjets utilise the 'Coanda' effect to draw larger volumes of ambient air into the device to amplify the air 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 – Ringjet is maintenance free
- No electricity required – safe to use with liquids and wet material
- Adjustable flow control using air gap and inlet pressure
- Energy efficient – low running cost
- Ideal for conveying over long distances
- Quiet operation (less than 80 dB (A))

Applications

- Conveying: plastic pellets, waste removal, food products, pills and tablets, small components, dust, liquids, paper trim
- Extraction: fumes, liquids, dust, waste material



BSP Ports

9039	Throat Diameter mm	Air Inlet BSP	Air Consumption @ 5 bar		Outlet Airflow		Hose Size for Ducting		OD mm	Length mm	Material
			SLPM	SCFM	SLPM	SCFM	mm	Inches			
BRJ12C	12	G1/8"	170	6	5,666	200	19	3/4"	25	95	Anodised Alloy
BRJ20C	20	G1/8"	283	10	6,800	240	32	1.1/4"	40	95	Anodised Alloy
BRJ25C	25	G1/4"	397	14	11,333	400	38	1.1/2"	50	135	Anodised Alloy
BRJ40C	40	G1/4"	510	18	14,150	500	50	2"	63	135	Anodised Alloy
BRJ50C	50	G3/8"	962	34	20,666	730	76	3"	90	203	Anodised Alloy

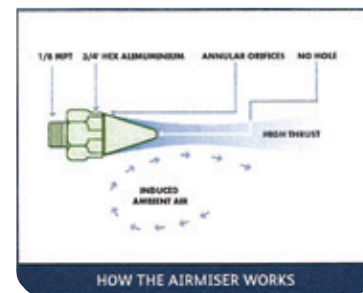
Airmiser Nozzles

The Airmiser uses a series of annular nozzles instead of a single hole to create a safer, more 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 pressure, 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 – Airmiser is maintenance free
- Low air consumption – 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



BSP Ports

9039	Air Inlet BSP	Air Consumption @ 5 bar		Thrust		Noise Level Db (A) at 1M
		SLPM	SCFM	N	LBF	
BAMSA	G1/8"	225	8	1.8	0.4	65
BAMBH	G1/4"	566	20	5.2	1.2	74
BAMSASS	G1/8"	225	8	1.8	0.4	65
BAMBHSS	G1/4"	566	20	5.2	1.2	74

AIR KNIVES & AMPLIFIERS



Pneu-Power Air Conveyors

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

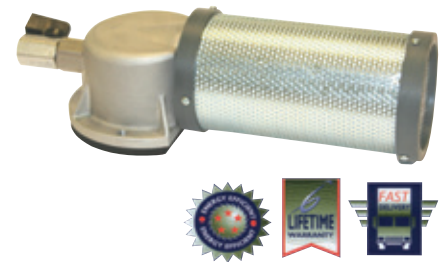
The Pneu-Power has very high performance and is capable of moving material over very long distances. The Pneu-Power is extremely robust, being manufactured from cast aluminium and is designed for use in harsh environments.

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

- Type A offers higher flows, type B offers higher suction
- No moving parts – Pneu-Power is maintenance free
- No electricity required – safe to use with liquids and wet material
- Adjustable flow control using air valve and inlet pressure
- Energy efficient – low running cost
- Quiet operation (less than 80 dB (A))

Applications

- Conveying tank filling/emptying, hopper loading, powder, granules, swarf removal, dust, liquids
- Extraction fumes, liquids, dust, waste material



BSP Ports

9039	Air Inlet BSP	Air Consumption @ 6 bar		Outlet Airflow		Vacuum		
		SLPM	SCFM	SLPM	SCFM	mm WG	Inch WG	Inch HG
BNEUPOWERA	G1/4"	885	31	2250	80	2072	82"	6"

Clustajet Ventilators

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 its high performance. For a given airflow, Clustajets are lighter in weight and smaller than equivalent electric fans.

- No moving parts – Clustajet is maintenance free
- No electricity required – safe to use in damp or wet locations
- Adjustable flow control using the control valve
- Standard Clustajets are manufactured from a strong welded steel casing
- Other options include:
 - Plastic
 - Flexible hose

Applications

- Extraction: welding fumes, solvent vapours, dust
- Ventilating: confined spaces, tanks, sewers, tunnel
- Cooling: components, pipework



BSP Ports

9039	Hose Size		Air Inlet BSP Inches	Airflow Consumption @ 4 bar		Outlet Air Flow		Dimensions					
	SLPM	SCFM		SLPM	SLPM	SPLM	SCFM	mm	Inches	mm	Inches	mm	Inches
BCJ425	102	4"	G1/4"	395	14	12,700	450	102	4"	180	7"	230	9"
BCJ620	150	6"	G1/2"	1130	40	18,400	650	152	6"	254	10"	356	14"
BCJ825	203	8"	G1"	2265	80	34,800	1230	203	8"	305	12"	457	18"
BCJ1250	305	12"	G1"	5375	190	87,750	3100	305	12"	406	16"	508	20"