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.

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

www.beck-air.com

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

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- Fume Extraction
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Accessories
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- Rigiflex "Stay Put" Hose

Midgivac Vacuum Cleaner
- Vacuum Cleaner
- ATEX Approved
Neublade Airstrip
Not all compressed air products are the same…

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

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

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

<table>
<thead>
<tr>
<th>TYPE OF AIR STRIP</th>
<th>AIR CONSUMPTION@4 BAR</th>
<th>NOISE LEVEL dB(A) @ 1M</th>
<th>POWER REQUIRED kW</th>
<th>RUNNING COSTS PER YEAR*</th>
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<tbody>
<tr>
<td>5 Holes in 50mm length of Pipe (3mm or 1/8&quot;)</td>
<td>1900</td>
<td>70</td>
<td>95</td>
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<tr>
<td>Standard Air Wipe (50mm)</td>
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<tr>
<td>Neublade (50mm)</td>
<td>124</td>
<td>4.5</td>
<td>65</td>
<td>0.65</td>
</tr>
</tbody>
</table>

*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...

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 - 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))

### APPLICATIONS

**COOLING**
- Components
- Mouldings
- Extrusions
- People
- Components on Test

**EXTRACTION**
- Fumes
- Water
- Dust
- Waste Material

**DRYING**
- Components
- Printing
- Material

### TECHNICAL INFORMATION - RINGJET AMPLIFIERS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No.</th>
<th>Dia.</th>
<th>Air Inlet</th>
<th>Bar</th>
<th>CGV</th>
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<th>Max Air Pressure</th>
<th>CGV</th>
<th>Min Outlet</th>
<th>Max Outlet</th>
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<td>1/4&quot;</td>
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<td>17</td>
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<td>1.12</td>
<td>5&quot;</td>
<td>165</td>
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</table>

316 Stainless Steel is available on request.

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

Applications

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Conveying Diameter</th>
<th>Air Inlet</th>
<th>Air Consumption</th>
<th>Outlet Airflow</th>
<th>Hose Fitting</th>
<th>Length</th>
<th>Material</th>
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<td>132 3&quot;</td>
<td>Stainless Steel (304)</td>
</tr>
</tbody>
</table>

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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

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.

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### Airmiser Nozzles, Jets and Handguns

**HOW THE AIRMISER WORKS**

**APPLICATI ONS**

<table>
<thead>
<tr>
<th>BLOW OFF</th>
<th>Water</th>
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<tr>
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<tr>
<td></td>
<td>Waste</td>
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<tr>
<td></td>
<td>Cutting Fluid</td>
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<tr>
<td>CLEANING</td>
<td>Components</td>
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<td></td>
<td>Conveyors</td>
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<tr>
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<td>Dust Removal</td>
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<td>Waste Removal</td>
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<td>DRYING</td>
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<td>Coatings</td>
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**TECHNICAL INFORMATION**

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<th>PART NUMBER</th>
<th>AIR INLET</th>
<th>AIR CONSUMPTION@5BAR</th>
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</table>

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

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 homed made devices where no performance figures exist.

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

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 use
- Determine potential savings
- Calculate accurate payback

AirSaver Control Unit

Take control of your compressed air and 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.

- 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

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…

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)

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.

### TECHNICAL INFORMATION - PNEU-POWER

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>AIR INLET</th>
<th>AIR CONSUMPTION @ 6 BAR</th>
<th>OUTLET AIR FLOW</th>
<th>VACUUM</th>
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</thead>
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<tr>
<td>BPNEUPOWERA</td>
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<td>2250</td>
<td>2072</td>
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<tr>
<td>BPNEUPOWERB</td>
<td>1/4&quot;</td>
<td>885</td>
<td>900</td>
<td>5700</td>
</tr>
</tbody>
</table>

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 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.

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

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.

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.

Midgivac

ATEX Approved Vacuum Cleaner

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.

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