

**SolvAir**

Engineered Air Solutions



# *Energy Saving* Air Knife Systems

# World-Leading Performance

Trusted by over 2000 satisfied customers globally, SolvAir supply industry-leading Air Knife Systems, guaranteeing exceptional performance, energy efficiency, and cost savings.

Worldwide trading partners and global experience that guarantees results.





SolvAir specialise in Air Knife Systems, from innovative design to installation and maintenance, customised to meet your specific needs.

We also supply, design, install and maintain Air Knives, Air Manifolds, Nozzles and Blowers suitable for a wide range of applications and products.



### 3 Year Warranty

Unmatched 3 year warranty on all our blowers as standard. All blowers undergo stringent balancing, quality control and testing prior to leaving the factory.

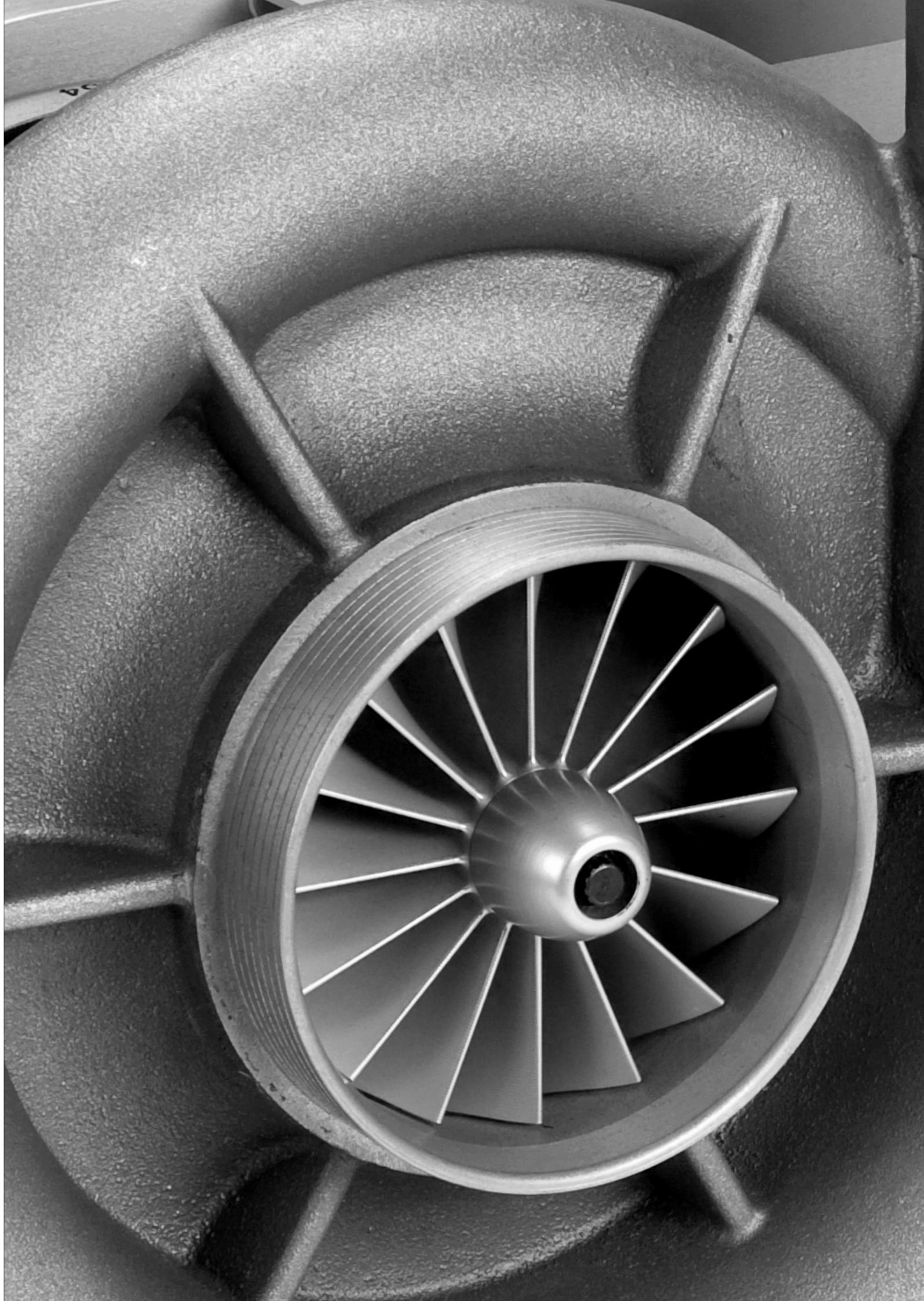


### 100% Performance Guarantee

We offer a 100% Performance Guarantee for all SolvAir Air Knife Systems. This means that you can be sure your system is operating at optimal performance.

# Index

8-9	Energy Savings
10-15	Industries
16-17	Air Knife Systems Overview
18-21	PX-Series Centrifugal Blowers
22-25	Air Knives
26-27	Air Nozzles & Manifolds
28-29	Spider Manifolds & Circular Air Knives
30-31	System Enclosures
32-33	Blower Enclosures
34-35	Electrical Control Options
36-37	Eco-Blow & Aria-Pak
38-39	Ionised Air Systems
40-41	MultiPack Drying System
42-43	Vehicle Drying & Blowing Systems
44-45	Our Services & Guaranteed Process
46-47	Bespoke Solutions
48-49	Global Distributor Network
50-51	Free Consultations



# Energy Savings

Our Air Knife Systems provide significant savings with lower costs of air generation compared to compressed air, heating and manual solutions.

SolvAir energy efficient Air Blowers - up to 12 times cheaper to run than alternative systems.

Our blowers offer significant long-term savings and use less than 10% of the energy of compressed air.



80% blower efficiency and around 33% cost savings compared to competing systems.



12x cheaper to run compared to equivalent compressed air systems.



Co2 savings from lower emissions means reduced environmental impact.



Payback within 3 months, plus an industry-leading three year warranty.



## Savings Estimator

To see cost saving calculations and how a SolvAir Air Knife System can benefit your company, please visit the Energy Savings page on our website.

# Industries

SolvAir provide high performance and low cost Air Knife Systems for a wide range of industries and applications.

Our Air Knife Systems work with any size or shape objects, and can be easily integrated with existing processes.

We combine the latest centrifugal blowers with custom-engineered air devices to produce high velocity, low energy air streams that are clean, moisture and oil free, and suitable for sterile and hygienic environments.



## Automotive

Complete surface preparation and static removal, ensuring parts are fully prepped for painting and automotive applications.

- Energy efficient water removal.
- Effective air cooling with minimal waiting times.
- Drying for all parts, from components to car bodies and engines.
- Cleaning and static removal from electronic components and small parts.
- Ionised air removes static and preventing dust and debris from sticking.
- Effective surface preparation for all stages of the production line process.



## Beverage

Drying, cleaning and blow-off for bottles, cans, cardboard and other containers, eliminating corrosion and water spoilage.

- Drying bottles, cans, jars, crates & trays.
- Removes moisture prior to coding or labelling.
- Meets food hygiene standards.
- Oil-free clean air.
- Prevents both corrosion & bacteria after washing or rinsing.
- Surface moisture completely removed.
- Static eliminated.
- Dust removal from final packaging.



## Breweries

Suitable for cans, bottles and other packaging. Eliminates crown, cap and bottle top corrosion.

- Removes 99%+ of moisture, dust and debris from the surface of bottles, cans, caps and lids.
- Ensures the quality of labels (ensures labels are fully adhered and placed in the correct location).
- Can be easily installed onto existing production lines.
- FDA Compliant 304/316 Stainless Steel Air Knives and Manifolds suitable for wash-down & sanitary environments.
- Prevents water corrosion and water marks on packaging and crown caps.
- Suitable for breweries, including low volume production craft breweries and wineries.
- Speeds up production lines with energy efficient, clean air.



## Electronics

Sterile, moisture and oil-free ionised air, removing static electricity to ensure 99%+ of dust and debris is removed from objects.

- Removes 99%+ of moisture, dust and debris from the surface of components.
- High power 'ultra-clean air' and multi-stage filters.
- Dries insulated wires, for example after cooling.
- Removes static electricity from plastic, glass, paper and other non-conductive objects.
- Enclosures and drip tray options available to ensure the operating area stays clean.
- FDA Compliant 304/316 Stainless Steel Air Knives and Manifolds suitable for harsh, corrosive and sanitary environments.

## Food

Guaranteed food safe production lines for processing fresh, frozen, cooked and chilled food produce.

- Dries fresh produce before packaging.
- Prepares packaging for correct labelling.
- Regulates coatings, such as oil, batter, chocolate and coatings on cheese.
- Removes surface moisture, for example, bakery products prior to cooking.
- Removes ice, or defrosting items.
- FDA Compliant 304/316 Stainless Steel Air Knives and Manifolds suitable for wash-down and sanitary/food-safe environments.
- Guarantees a fully sanitised environment with oil-free, moisture-free air, meeting stringent hygiene standards.



## Food & Beverage Equipment Suppliers

We work with you to provide Air Knife turn-key and bespoke solutions that meet your clients' needs.

- Minimises downtime from blockages, moisture damage, corrosion.
- Quick and powerful drying/cleaning means less disruption from waiting times.
- Available as fully enclosed, partially enclosed or open systems.
- Uses 80% less air than compressed air systems.
- Suitable for a wide range of food and beverage containers and packaging, including rigid and flexible packaging, across a range of shapes, sizes and materials.

# Heavy Industries

Removes cleaning agents, sealants, powders and oil from the surfaces of objects using high-velocity air streams.

- Removes 99%+ metal/wood debris, cleaning agents, sealants, oils and powder from the surface of objects.
- Can provide 'spot' drying, cleaning and blow-off.
- Delivers clean, dry, oil-free air.
- FDA Compliant 304/316 Stainless Steel Air Knives and Manifolds suitable for harsh and corrosive applications.
- Provides effective and fast drying after painting, coating, and shrink labelling.
- Pneumatic conveying/sorting of components, including plastics and metal parts.
- Removes swarf.

# Manufacturing

Prepares surfaces for coding, marking, painting and coating. Capable of vacuum hold down for wood, metal and fabrics.

- Generates highly controllable, high-velocity, clean, oil-free air.
- Pneumatic conveying and sorting of plastic parts, plastic caps, small metal parts, or other components.
- Drying after painting, coating, shrink labelling.
- Removes static electricity from interior/exterior of objects and metal sheets.
- Ensures fast and effective drying after painting, coating, and labelling, and before coding and marking.
- Minimise downtime waiting between cooling, drying and labelling.



# Pharma, Medical & Nutra

FDA Compliant Stainless Steel Air Knives and Manifolds suitable for harsh, corrosive, wash-down and sanitary/food.

- Ultra-clean, ionised, moisture-free powerful air-streams.
- Multi-stage inlet and outlet filters ensure HEPA-quality air.
- Washdown enclosures ensure GMP requirements are met.
- Delivers ionised air, eliminating static and removing particles from surfaces, for example before filling/packaging.
- FDA Compliant 304/316 Stainless Steel Air Knives and Manifolds suitable for harsh, corrosive, wash-down and sanitary/food-safe environments.
- Guarantees a fully sanitised and hygienic environment.



# Rubber & Plastics

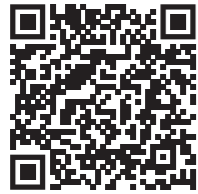
Suitable for processing vinyl, PVC, plastic sheets/films, extrusion lines, ensuring no moisture contamination or corrosion occurs.

- Available in a range of formats, including Circular Air Knives capable of 360 degree cleaning, drying and blow-off.
- Ensures optimal production line speed, efficiency and reliable performance.
- No water spots or water-related problems.
- Moisture and corrosion prevention.
- Adaptable to various line speeds or conveyor types.
- Hardened and durable stainless steel Air Knives and Nozzle Manifolds.
- Space-efficient, easy to install, low maintenance.

# Air Knife Systems Overview

Effective cleaning, drying, blow-off and liquid control for a wide range of industrial applications.

By combining the latest centrifugal blowers with custom-engineered air delivery devices, our Air Knife Systems always perform to the highest standards.



## Discover Our Air Knife Systems

Learn about the working principles of Air Knife Systems with our brief 60-second video.



### Air Blowers

Ultra high efficiency centrifugal blowers offer unmatched efficiency for drying, cleaning, blow-off and vacuum applications.  
See pages 18 to 21



### Air Knives & Devices

We supply, design, install and maintain air devices suitable for a wide range of product sizes, shapes and line configurations.  
See pages 22 to 29



### System & Blower Enclosures

FDA Compliant 304/316 stainless steel construction, suitable for sanitary environments, extend the life of your blower and reduce noise.  
See pages 30 to 33

Our Air Knife Systems are easy to install and maintain, and are often the most energy efficient and effective method of removing or controlling foreign substances on object surfaces of any size and shape.

## System Uses

- Removes liquids.
- Removes foreign particles.
- Controls the thickness of liquids.
- Dries liquid coatings.
- Cools product surfaces.
- Creates hold-down forces.



# PX-Series Centrifugal Blowers

Paxton high efficiency blowers for precision blow-off and drying.

PX-Series ultra-high efficiency Centrifugal Blowers offer unmatched performance for drying, process air, blow-off, or vacuum applications.

- Ultra-efficient design reduces energy costs by 50-80%.
- 100% Performance Guarantee when coupled with our Air Knives, Manifolds and Nozzles.
- Less heat, quiet operation, low maintenance.
- Optional blower performance controls that keeps energy usage to an absolute minimum.
- 20–30% more efficient than other competing blowers.



## 3 Year Warranty

Unmatched 3 year warranty on all our blowers as standard.



SolvAir are the UK and European distribution centre for Paxton blowers. All our Centrifugal Blowers are constructed with the utmost attention to detail using the highest quality parts.



## Blower Features

Precision-engineered for optimal efficiency and sustained high performance.



### Maximum Efficiency

State-of-the-art impeller design produces more air flow at lower blower speeds, creating unmatched efficiency, with blower efficiencies as high as 80%.



### Lower Maintenance

High-performance Air Blower inlet filters protect from debris, oil and moisture, significantly extending the lifespan of your blower.



### Longer Service Life

Every Paxton blower is designed to use minimum belt tension, comes with a two stage filter, and generates less heat, significantly extending the life of the blower.



### Increased Power

Available at power ratings from 1.5kW to 15kW, our blowers are ideal for small to large industrial applications. The PX2000 generates as much as 2378m<sup>3</sup>/hr of air flow.

# PX-Series - Model Range

Available at power ratings from 1.5kW to 15kW, our blowers are ideal for small to large industrial applications.

At SolvAir, we assist our clients with achieving energy and cost savings. We advise on the most efficient blower combined with optional electrical controls to maximise efficiency and achieve optimal results.

- Ultra-efficient design reduces energy costs by 50-80%.
- Provides 20–30% greater efficiency compared to other competing blowers.



**PX200** Flow Output: 595 @ 75 (m³/hr @ mbar)  
**1.5kw** Power Output: 255 @ 100 (m³/hr @ mbar)  
 Outlet Diameter: 76mm



**PX500** Flow Output: 1104 @ 30 (m³/hr @ mbar)  
**4.0kw** Power Output: 170 @ 210 (m³/hr @ mbar)  
 Outlet Diameter: 76mm



**PX750** Flow Output: 1189 @ 45 (m³/hr @ mbar)  
**5.5kw** Power Output: 170 @ 210 (m³/hr @ mbar)  
 Outlet Diameter: 76mm



**PX1000** Flow Output: 1953 @ 82 (m³/hr @ mbar)  
**7.5kw** Power Output: 849 @ 180 (m³/hr @ mbar)  
 Outlet Diameter: 102mm



**PX1500** Flow Output: 2208 @ 37 (m³/hr @ mbar)  
**11.0kw** Power Output: 849 @ 186 (m³/hr @ mbar)  
 Outlet Diameter: 102mm



**PX1550** Flow Output: 1783 @ 148 (m³/hr @ mbar)  
**11.0kw** Power Output: 849 @ 274 (m³/hr @ mbar)  
 Outlet Diameter: 102mm



**PX2000** Flow Output: 2378 @ 140 (m³/hr @ mbar)  
**15.0kw** Power Output: 849 @ 274 (m³/hr @ mbar)  
 Outlet Diameter: 102mm



## Ultimate Performance Control & Energy Savings

We offer a range of electrical control options for our PX-Series blowers to ensure total system control, including internal, external, and drive-mounted devices. Details can be found on pages 34 & 35.

# Air Knives

'Precision' air flow Air Knives provide optimal performance for a wide range of industrial applications.

Air Knives are powerful and versatile tools, used in various industrial applications, for cleaning, drying and removal of debris from surfaces.

At SolvAir, we specialise in providing off the shelf and bespoke Air Knives. Our flexible and adaptable configurations provide high-performance Air Knife drying, blow-off and cleaning at low cost.

- Provides thorough, instantaneous drying & blow-off.
- Various inlet and mounting configurations.
- Creates high efficiency/high penetration 'precision' air flow.
- Exclusive design generates optimum air speed delivery and exit velocity.
- Lowest cost of operation (less energy required to achieve drying and less air needed).
- Available in anodised aluminium or 304/316 stainless steel.



## Stainless Steel & Aluminium Options

Available in anodised aluminium or 304 and 316 stainless steel options for corrosive and heavy-use applications.

*Details can be found on pages 24 & 25.*



## Air Knife Key Features

High performance cleaning, blow-off and drying.



### Efficient Cleaning & Drying

Concentrated and controlled streams of air that effectively remove moisture, dust, debris, and other contaminants from surfaces. Our Air Knife Systems deliver exceptional cleaning and drying capabilities.



### Energy Efficiency

With our energy efficient blowers, our Air Knives are engineered to maximise performance while minimising energy consumption. Advanced technology and efficient design means reduced energy costs.



### Customisation Options

Our systems are customised to meet your requirements. Our team of experts will work closely with you to design your Air Knife System that seamlessly integrates into your processes and delivers optimal results.



### Durability & Reliability

Our systems, constructed from high-quality materials, are engineered to endure harsh conditions and heavy usage, requiring minimal maintenance while ensuring long-lasting performance and reliability.

# Aluminium Air Knives

Providing 'precision' air flow and suitable for a wide range of industrial environments.

SolvAir's Aluminium Air Knives are designed for a wide range of environments, delivering precise air flows that ensure efficient cleaning, drying, and debris removal. These high-quality, extruded aluminium knives offer robust performance and energy efficiency.

Constructed from high-quality extruded aluminium, these offer a hard anodised finish for enhanced durability and cost-effective operation.



## Key Features

- Provides thorough, instantaneous drying and blow-off.
- Creates high efficiency/high penetration 'precision' air flow.
- Various inlet and mounting configurations.
- Exclusive design generates optimum air speed delivery and exit velocity.
- Lowest cost of operation (less energy required to achieve drying and less air needed).
- Hard anodised protective finish for durability and long life.
- High quality extruded aluminium construction.

## Technical Specification

- Anodised Aluminium Alloy (6061-T6) with stainless steel fittings (304).
- Profile height - 78mm.
- Air inlet connection - 76mmØ.
- Available in 10mm increments, with a maximum length of 5.5 metres.



# Stainless Steel Air Knives

Suitable for tough industrial environments, providing high quality performance in corrosive and/or sanitary conditions.

SolvAir's Stainless Steel Air Knives excel in harsh, corrosive, and sanitary environments, making them perfect for the food, beverage, and pharmaceutical industries.

Constructed from 304 stainless steel for guaranteed durability and efficiency, with 316 as an option for superior corrosion resistance and durability in the most extreme environments.



## Key Features

- Ideal for harsh, corrosive, wash-down or sanitary environments.
- Food, beverage and pharmaceutical industry applications.
- FDA Compliant 304 stainless steel.
- 316 stainless steel option available for extreme corrosion resistance, ideal for more saline or chloride-exposed environments.
- High efficiency/high penetration 'precision' air flows.
- Exclusive design generates optimum air speed delivery and exit velocity.
- Lowest cost of operation (less energy required to achieve drying and less air needed).

## Technical Specification

- Full FDA-compliant 304 (or optional 316) stainless steel construction.
- Profile height - 142mm.
- Air inlet connection - 76mmØ.
- Available in 10mm increments, with a maximum length of 4.5 metres.



# Air Nozzles & Manifolds

High velocity air streams delivered at intervals, built from food contact material.

SV10 Air Nozzles and Manifolds are designed to deliver multiple high-velocity air streams with precision.

Fully adjustable and round, these can be held in position, ensuring a flexible and reliable working range for all applications.



## SV10 Nozzles

- Ideal for Food and Beverage lines.
- Durable and robust construction.
- Fully adjustable and holds in final position.
- Delivers high velocity air to targeted areas.
- Highly effective and reliable working ranges.

## SV10 Manifolds

- Constructed with 304/316 food contact stainless steel.
- Extremely durable and robust.
- Custom Manifold designs tailored to your exact needs.
- Reliable and efficient performance.
- Easily adjustable for accurate air delivery.

## Custom Bespoke Builds

Our SV10 Air Nozzles and Manifolds are custom-built to meet your unique requirements, delivering bespoke solutions that match your exact needs and product requirements.



# Nozzle Manifolds

Ideal for product lines that include objects across a range of sizes and shapes.

Nozzle Manifolds provide multiple air stream outlets and are ideal for product lines that include objects across a range of sizes and shapes.

Nozzle Manifolds maintain thrust as far away as 46cm and are ideal for applications that require a greater distance between the air source and the surface to be dried or blown-off.



## Key Features

- Provides excellent results at a distance.
- Manufactured from high grade stainless steel or polypropylene.
- Exclusive design generates optimum air speed delivery and exit velocity.
- Fixed and adjustable nozzle options.

## Ideal Applications

- Conveyors of multiple item types of various sizes and shapes.
- Products that have multi-faceted surface to dry.
- Products with nooks, crannies or holes.

## Built To Specification

Nozzle Manifolds are incorporated into your systems as required. We custom build these parts to fit the specifications and the needs of our client's system, ensuring they provide optimal coverage and performance.



# Spyder Manifolds

The most effective system for spot drying, including under the rim of bottles, cans and jars.

Spyder Manifolds are available in a range of configurations, and feature flexible design that combines inline nozzles with 'spider-like' arms, adjustable to suit all objects. Available in both stainless steel and polypropylene versions, guaranteeing durability and adaptability across a range of different environments.

Particularly suitable for drying areas that are difficult to reach, such as irregularly shaped, small, large, or multiple objects. Spyder Manifolds are therefore often used for ensuring bacteria and corrosion is eliminated from hard-to-reach places, such as under lids.

## Key Features

- Available in both polyethylene and stainless steel.
- High-impact nozzle designs.
- Wide range of nozzle shapes & sizes.
- Adjustable and flexible Loc-Line construction.



# Circular Air Knives

360° performance for effective and efficient cleaning and drying.

Circular Air (CA) Knives are suitable for varied applications, such as cable or tube drying and plastics or rubber extrusion lines, where they effectively remove water following cooling baths.

The fully controllable 360° adjustable performance of CA Knives ensures no dead spots, and is particularly beneficial when processing circular products, as well as more complex extruded profiles.

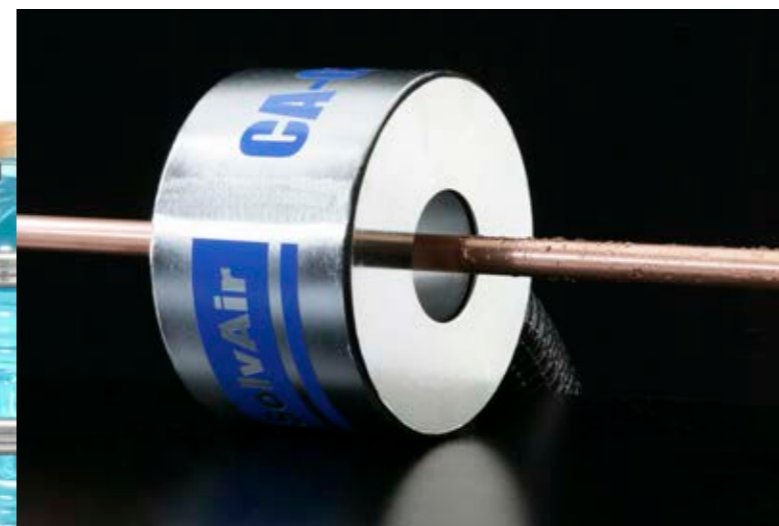
## Key Features

- 304/316 stainless steel options for corrosion resistance and a longer lifespan.
- Adjustable gap size.
- Energy savings vs compressed air.
- Continuous operation.
- For high-speed lines multiple CA Knives can be used in series.



## Size Options

Our Circular Air (CA) Knives are available in a range of standard sizes, plus custom sizes up to 450mm in internal diameter.



## Suitable For

- Pipe and tube processing.
- Cable manufacturing.
- Plastic and rubber extrusions.
- Metal profile drying.
- Steel metal tube drying.

# System Enclosures

Custom-designed system enclosures for a quieter, safer working environment.

SolvAir provides custom-designed system enclosures for each application ensuring maximum effectiveness. Our acoustically lined, enclosed units offer a quieter, safer working environment with increased blower reliability.

- Offers the most compact Air Knife System installation.
- Simple installation with our compact modular designs.
- Reduces noise levels.
- Contains any water removed as part of the process.
- Constructed from stainless steel with PETG or SST panels and access doors.
- Large doors allow excellent access to Air Knives and conveyor track.

## Key Features

Perfect for corrosive and/or wet environments, our system enclosures eliminate the potential for contamination, as well as containing all removed water.



### 304/316 Stainless Steel Construction

Our system enclosures, constructed of FDA-compliant 304 stainless steel, with 316 as an option for extreme corrosion resistance, are suitable for all sanitary environments.



### Integrated Conveyors

We provide a range of conveyors, including integrated wire mesh conveyors, capable of increasing the adaptability and flexibility of what your production line can do.



### Improved Workplace and Hygiene Standards

Our acoustically lined and fully enclosed systems offer a quieter, safer working environment with improved blower reliability. Easy access for cleaning makes these enclosures perfect for food, beverage, and pharmaceutical industries.



### High-Performance Grade M5 Filters

High-performance hydrophobic inlet air pre-filter grade M5 filters protect blowers from harsh, corrosive and wet environments whilst also minimising the sound produced by the blower.

### Adjustable Configuration

Easy to use, flexible Air Knife and Nozzle mounting system allows operators to adjust positions to suit a wide range of different products.



# Blower Enclosures

Our robust blower enclosures are constructed and suitable for a wide range of industrial applications.

SolvAir provides custom-designed system enclosures for each application, ensuring maximum effectiveness.

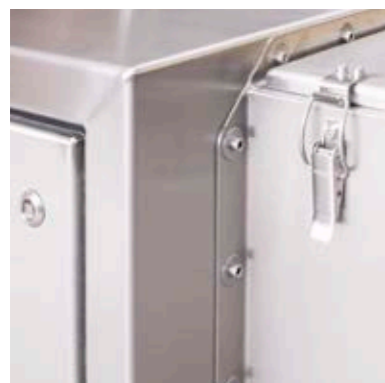
Our acoustically lined, enclosed units offer a quieter, safer working environment with increased blower reliability.

## Key Features

- Extended life for your blowers resulting from operating within a protected environment.
- Easy accessibility to the blower, as required for maintenance.
- High-performance hydrophobic inlet air pre-filter grade M5 filters.
- Noise reduction through acoustic insulation delivering low and high-frequency sound reduction.
- FDA Compliant 304/316 stainless steel construction suitable for sanitary environments.



## Key Features



### 304/316 Stainless Steel Construction

304 (or optional 316) stainless steel for extreme corrosion resistance.



### High-Performance Grade M5 Filters

Eliminates dust and other contamination from your blower.



### 45mm High-Quality Acoustic Insulation

Reduces noise pollution and limits sound transmission in occupied spaces.

# Industrial Blower Enclosures

Protects blowers in harsh, corrosive and wet environments whilst providing significant sound absorption.

Constructed for industrial applications these robust blower enclosures offer a wide range of benefits.

## Key Features

- Extends the life of the blower as it operates within a protected environment.
- Quieter operation - acoustic insulation lowers sound pressure levels at critical frequencies as well as limiting sound transmission into occupied spaces.
- Versatile design offering top, bottom and side blower outlet positions.
- Choice of two footprint designs.



- Full and easy access to the blower for maintenance.

## Optional Extended Bases

Our optional extended bases are ideal for wash-down environments.

- Improves hygiene through easy access for cleaning.
- Elevates equipment away from wet floors enabling safe and easy wash-down of the area.
- FDA Compliant 304/316 stainless steel construction suitable for harsh, corrosive, wash-down or sanitary environments.
- Ideal for food, beverage and pharmaceutical industry applications.



# Electrical Control Options

For ultimate performance & energy savings.

For total system control we offer a number of electrical control options compatible with our PX-Series Blowers, including internal, external and drive mounted devices.

- Maximise your energy savings with precise and variable performance control of the blower output.
- Obtain maximum control of your energy usage, tailored uniquely to your specific production rates and package sizes.
- Simple electrical installation of the blower requiring only a single power supply connection.



## Air Control Unit

Cost effective, robust, easy to use blower performance control.

Our Air Control Unit (ACU) is an outdoor-rated, dust-tight, suitable for washdown, Variable Frequency Drive (VFD).

Simple to install and connect, our ACU provides full blower control for unmatched performance and instant energy savings.

- Get immediate energy savings with precise motor control and inbuilt potentiometer setup.
- IP66-rated, dust-tight design ensures protection from dust and contaminants.
- 14 basic and 50 advanced adjustable parameters for precise motor management.
- ABS enclosure and corrosion-resistant heat sink make it ideal for high-pressure washdown applications.



# Control Panels

Simple and accurate blower control.

Specifically designed for our Air Knife Systems, we supply easy-to-use and water-resistant Variable Frequency Drive (VFD) electrical controls that give you optimised blower performance and total control for increased energy savings.

- Enables operator usage from outside of the enclosure.
- VFD enables blower ramp-up speeds, prolonging blower life.
- VFDs provide users with control of energy usage, and can be tailored to particular production rates and specific package sizes.
- Easy to stop/start the system.
- Maintains safer working environment by keeping the blower and Air Knife enclosures contained.



## Integrated Air Control

Simple and accurate blower control.

The Integrated Air Control (IAC) is a Variable Frequency Drive (VFD) that provides simple and accurate blower control, allowing you to adjust the performance to suit a range of products.

The IAC is installed directly onto the blower drive motor, minimising wiring and installation work, and does not require dedicated control cabinets, so your air blower system can be easily moved around any site, or used in situations where space is at a premium.

- Variable performance control of the blower output.
- Simple electrical installation of the blower requiring only a single power supply connection.
- Reduction of electrical installation costs for both equipment and labour.
- Achieves the most stringent energy efficiency requirements.



# Eco-Blow

Water removal system for Craft Breweries, Wineries and other low-volume production facilities.

SolvAir Eco-Blow systems are compact and easy to install onto your existing lines.

Our pre-configured package provides enhanced water removal for low volume bottle and can production facilities - with rates in excess of 3000 products per hour.

Integrated inverter speed controller and pre-configured design gives total performance and energy usage control.

## Key Benefits

- Guarantees clean/dry surfaces for labelling processes.
- Eliminates cardboard carton failure.
- Removes bottle staining and poor shelf appearance.
- Reduces water migration onto other machine components downstream.
- No crown cap issues, corrosion or contamination.



## Standard Package

- Twin Air Knives / 304 stainless steel / 500mm & 600mm long options / 76mmØ.
- Energy efficient blower with built-on inverter speed controller 4kW / 400v – 3ph.
- Air divider and flexible tubes to connect blower to Air Knives.
- Air Knife adjustable mounting kits (SS).
- Integrated frequency inverter IP65 / Simple control of system performance.
- Disc silencer reduces blower noise levels to below 80dbA.

# Aria-Pak

SolvAir's economy range of blowers for smaller applications.

Ideal for smaller applications, Aria-Pak is a powerful, low-cost, energy efficient maintenance-free all-in-one system.

Ideally suited to single Air Knives less than 300mm long or up to 3 Nozzles. Compact, direct drive blowers from 0.75kW up to 2.2kW.



## Technical Characteristics

- Aluminium alloy construction.
- Smooth operation.
- Maintenance free.
- Inlet air temperature range -15°C to +40°C.
- Blower-motor direct drive from 0.75kW up to 2.2kW.

## Electric Motor

- IP55 rating/IE2 efficiency.
- 3PH – 230/400V – 50Hz.
- Class F insulation, suitable for operating with inverter.
- Thermal protector as standard.
- Cooling fan motor requires a 1PH/230V/50-60Hz supply.



# Ionised Air Systems

Efficiently remove particulates, dust and contaminants using powerful ionisation.

SolvAir's innovatively designed Ionised Air Systems dramatically reduce your energy usage and environmental impact. Our Two-Stage HEPA filter and sealed-for-life blower bearings provide clean, oil-free output and zero contamination of the product.

Through dissipating static charges in a powerful airstream, SolvAir Ionised Air Systems remove dirt, dust and contaminants that commonly adhere to surfaces.

- Prevents particles and dust from adhering to container walls.
- Effects a surface free of dirt, dust, and particles to improve the surface finish.
- Reduces risk of microbiological growth caused by moisture in water rinses.
- Significantly reduces energy usage by eliminating compressed air.
- Eliminates potential for water and oil contamination caused by compressed air.
- Air flow neutralises static charges to release contaminants from container walls or product surfaces.
- Eliminates water rinsing and reduces filtration, drying and water disposal costs.

## Key Features



### Eliminate Water Use

Reduces risk of microbiological growth caused by moisture in water rinses.



### Two-Stage HEPA Filters

HEPA filters and sealed-for-life blower bearings provide clean, oil and dust free output.



### Neutralises Static Charge

Prevent particles and dust from adhering to the inside or outside of container walls.



# Ionising Can & Bottle Rinser

Eliminate the need for water rinsing, or air rinsing using compressed air.

- Suitable for plastic and glass bottles, up to 2 litres.
- Air flow eliminates static charge, releasing contaminants from bottle and can surfaces, inside and out.
- Able to operate successfully in harsh wash-down environments.
- 304/316 stainless steel construction suitable for food and beverage manufacturers.



# Manufacturing

Removes 99%+ of dust, particulates, and contaminants without the need for water

- Powerful enough to guarantee surface preparation suitable for all finishing methods, including powder coating and painting.
- Our Two-Stage HEPA filter and sealed-for-life blower bearings provide clean, oil free output and zero contamination of the product.
- Ensures surfaces are free of dirt, dust, and particles to improve the surface finish.

# MultiPack Drying System

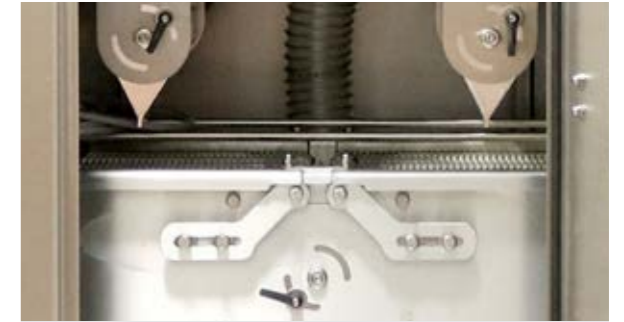
Designed for the food industry and fully customisable for bottles, cartons, small to large packaging.



We offer a 100% Performance Guarantee on the MultiPack Drying System. This means that you can be sure your system is running to the highest performance.

## Key Features

- Eliminates water contamination during food package processing.
- Designed to meet the highest standards of performance, user comfort, hygiene and noise control.
- Easily integrates into new and existing production lines.
- Works with a wide range of plastic, foil, cardboard and pouch (DOY) packaging.



## Fully Customisable

Integrated mounting and adjustment system enables easy configuration for different sized/shaped packaging.

## System Overview



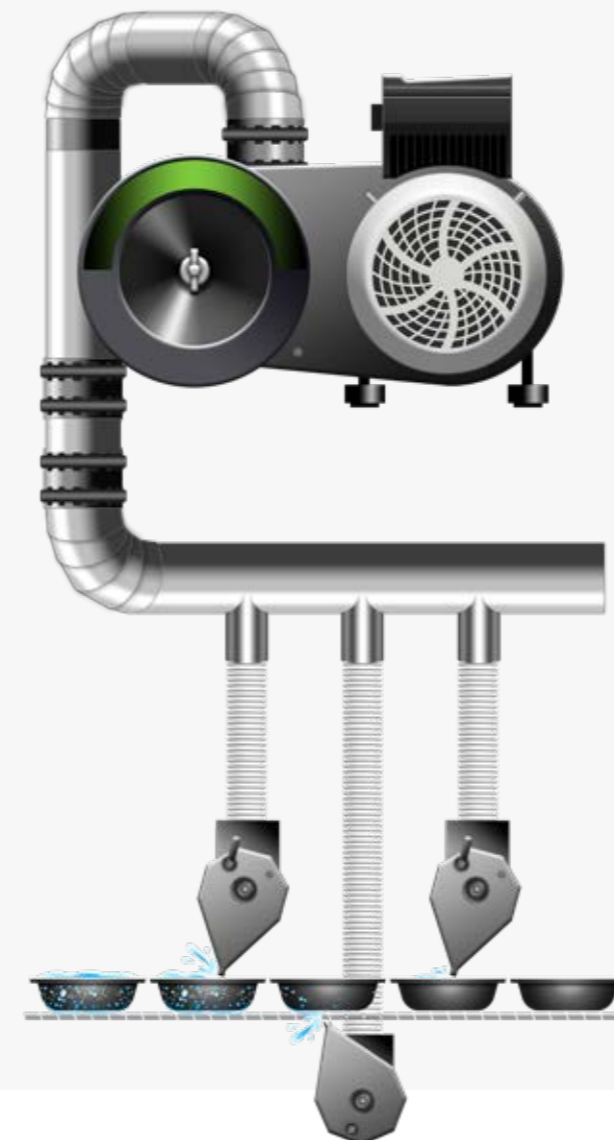
### Conveyor Belt

Comes with a built-in conveyor belt, or is easily installed onto existing conveyor belts, and can run continuously.



### Drip Tray

Stops water from leaving the system and prevents contamination of the production area.



### Inverter

Variable Frequency Drive (VFD) inverter available for total energy efficiency, enabling full control of speed/energy usage.



### Air Knives - Top & Bottom

Air Knives provide air flow from all directions, ensuring drying, blow-off and cleaning for a variety of objects.

# Vehicle Drying & Blowing Systems

Fully autonomous, our Vehicle Drying Systems remove 98%+ of plastic pellets, water and other debris from the surfaces of transport. Easy integration onto existing sites with no business interruption during installation or use.



Highly Effective Blow-Off • Plastic Pellet & Dust Removal • Water Blow-Off • Drying

## Key System Features



### Easy To Install, Maintain & Run

Our systems save energy and time, effortlessly removing debris and spillage from vehicle surfaces. With seamless integration into existing sites, totally removing the need for manual cleaning or drying efforts, and ensuring hassle-free operation.



### Removes 98%+ of Water or Debris

Precision-profiled air devices are carefully configured to create maximum air flow over all parts of the vehicle. This ensures that 98%+ of water or debris is efficiently removed from the entire surface of the bodywork.

# Truck Blow-Off System (TBOS)

Deliver your environmental goals and meet Operation Clean Sweep (OCS) objectives.

- Meets environmental responsibilities, including those set out in Operation Clean Sweep® (OCS).
- Easy to install and run, designed to result in no disruption to business or on-site operations.
- Fully automatic, energy-saving, and requires no additional resources such as water or manpower.



**TBOS**

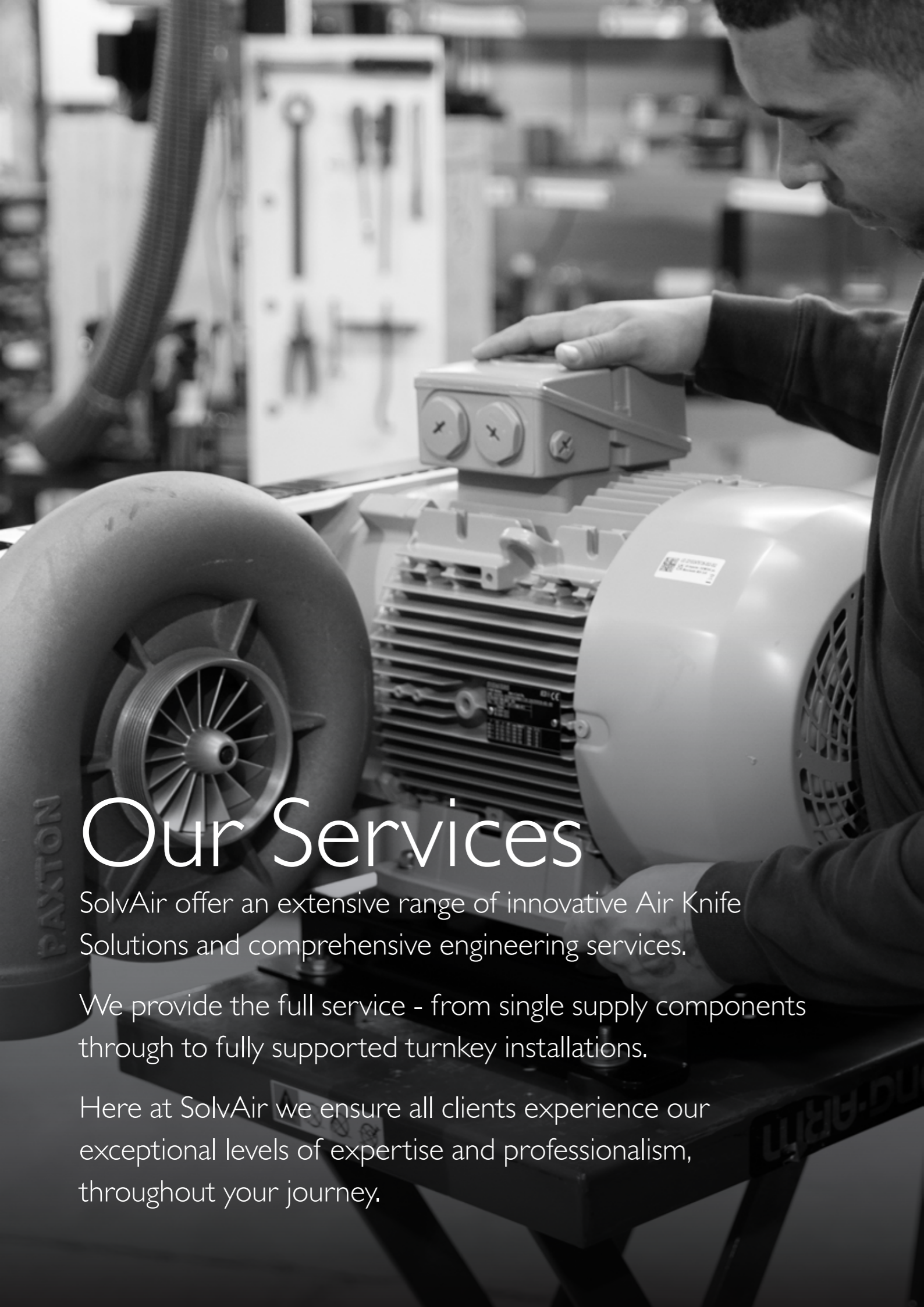
# Train Drying System

Compact, low maintenance, all-weather, powerful drying system that fully removes water from the surface of passing trains and carriages.

- Removes all water – trains departing the system are fully cleaned and dried without risk of icing and/or water staining.
- Low maintenance, fully automatic operation with completely unmanned cleaning areas.
- Robust blower enclosures offer protection from all elements and are able to effectively and efficiently run in all types of weather.



**TDS**



# Our Services

SolvAir offer an extensive range of innovative Air Knife Solutions and comprehensive engineering services.

We provide the full service - from single supply components through to fully supported turnkey installations.

Here at SolvAir we ensure all clients experience our exceptional levels of expertise and professionalism, throughout your journey.

## Guaranteed Process

We keep our clients fully informed at every stage. We ensure you have a thorough understanding of your system design and how it will benefit you, guaranteeing that you obtain the maximum benefit from your equipment once in operation.

### Survey & Site Visit

SolvAir provide free site visits for all our customers. We listen to your aspirations and concerns, ensuring a complete understanding of your requirements. As each production scenario is unique we discuss, review and record application data, providing dedicated customer service at every stage.

### Installation

SolvAir offer a full installation service. We complete pre-installation risk assessments and method statements, always ensuring our engineers respect and adhere to your site standards. We keep our clients fully informed at every stage ensuring complete installation in a safe and timely manner.

### Design

At SolvAir we have decades of experience in providing innovative Air Solutions. We use our expertise to explore and identify the best solution for each client scenario, utilising the very latest 3D modelling software to develop our designs, and our team continuously reviews our service pre and post order.

### Commissioning

We design, manufacture and install your chosen solution to your requirements, completing performance checks, fully commissioning and placing the equipment into service. We will also train your team on how to use and maintain your equipment to ensure maximum effect.

### Manufacture

SolvAir provide concept models, progressing on to full detailed drawings and specifications. Our well-developed supply chain means we always make full use of the latest manufacturing technology. All our equipment is assembled and fully tested prior to despatch.

### After Sales

To maintain a high standard of performance SolvAir offer post sales support and advice, including a range of service packages for routine periodic maintenance. We respond quickly to queries, stocking a range of spare parts and ensuring swift delivery from our stock to our clients.

# Bespoke Solutions

Our bespoke Air Knife Systems guarantee the highest performance for your application. Our expertise ensures you see improvements in your outputs, budget and energy efficiency targets.

## Industry Experts

At SolvAir we guarantee that the products and services you buy from us completely match your requirements and expectations. We offer complete solutions with added value that can be put into operation immediately. This difference is what makes SolvAir an industry leader. From design and installation to ongoing maintenance and servicing, we ensure performance to the highest standards.

## Continuity and Security

We fully appreciate that the production process is crucial to your business success. Our efforts are geared towards two important pillars: your business continuity and operational security. We thoroughly test your new system before installation, capitalising on the knowledge and experience from all our projects and the latest innovations developed in our facility.

## Bespoke Customer Service

Our first priority is to understand your facilities, processes, challenges and aims - our approach is mechatronic. We analyse your entire set-up, identifying the opportunities, risks and solutions for you in a full report, including a quotation in line with your budget. As part of our service we provide training for all staff who will be supervising your installation once in place.

## True Efficiency

As Air Solutions experts we know that small details are key when designing truly energy efficient systems. Our bespoke services provide you with customisation as required - from subtle changes in existing products to fully bespoke solutions - all designed in line with your targets. We ensure that our bespoke solutions provide added value for the lifetime of your installation.



## 100% Performance Guarantee

We offer a 100% Performance Guarantee for all SolvAir Air Knife Systems. This means that you can be sure your system is running to the highest performance.



# Global Distributor Network

With distributors and support in over 16 countries and more than 2000 satisfied customers globally we have the knowledge, support and experience you can rely on.

## United Kingdom

info@solvair.co.uk    www.solvair.co.uk



### Southern Office (HQ)

+44 (0)1473 320 307

### Northern Office

+44 (0)1706 375737

If you are based in the EU and would like to contact your local European distributor directly please use the details below. You can also get contact details for your required distributor by contacting SolvAir UK on +44 (0)1473 320 307.

## Austria



+49 (0)8376 976 72 00  
www.gesete.de

## France



+33 (0)3 28 40 22 17  
www.rycobel.com

## Belgium



+32 (0)56 78 21 70  
www.rycobel.com

## Germany



+49 (0)8376 976 72 00  
www.gesete.de



+49 (0)6331 877 63 63  
www.fos-tribotechnik.de

## Czech Republic



+420 412 333 291  
www.paxton.cz

## Greece



+30 (0)210 2441689  
www.marinisco.gr

## Portugal



+34 976 780 258  
www.soplain.es

## Italy



+39 (0) 934 773 846  
www.euspray.com

## Slovakia



+420 412 333 291  
www.paxton.cz

## Luxembourg



+32 (0)56 78 21 70  
www.rycobel.com

## Spain



+34 976 780 258  
www.soplain.es

## Netherlands



+32 (0)56 78 21 70  
www.rycobel.com

## Sweden



+46 (0)40 933 030  
www.sensorgruppen.se

## Poland



+48 (0)61 814 6441  
www.systemyosuszania.pl

## Switzerland



+49 (0)8376 976 72 00  
www.gesete.de



+48 (0)61 834 3580  
www.7bar.pl

## Turkey



+90 (0)212 401 06 89  
www.neskaotomasyon.com

# Free Consultations

SolvAir offer an extensive range of Engineered Air Solutions and comprehensive services.

We provide free consultations for all Air Solutions enquiries. This includes free site visits, assessments of existing processes, recommendations for performance enhancements plus energy and cost savings, and quotes for off the shelf and bespoke solutions.

All enquiries experience our exceptional levels of expertise and professionalism from the very start.

## Want to talk about your business requirements?

For a no-obligation, free consultation, please contact us via the details below.

Our team of specialists have decades of experience in providing innovative Air Solutions and will contact you within 24 hours to discuss your requirements and arrange your full in-depth consultation free of charge.



+44 (0)1473 320307  
info@solvair.co.uk  
www.solvair.co.uk



## SolvAir Limited - United Kingdom

Unit 20 Altitude Business Park  
The Drift, Nacton Road  
Ipswich IP3 9QN

Tel: +44 (0)1473 320307

[info@solvair.co.uk](mailto:info@solvair.co.uk)  
[www.solvair.co.uk](http://www.solvair.co.uk)

## Northern Office

Rochdale, Lancashire

Tel: +44 (0)1706 375737