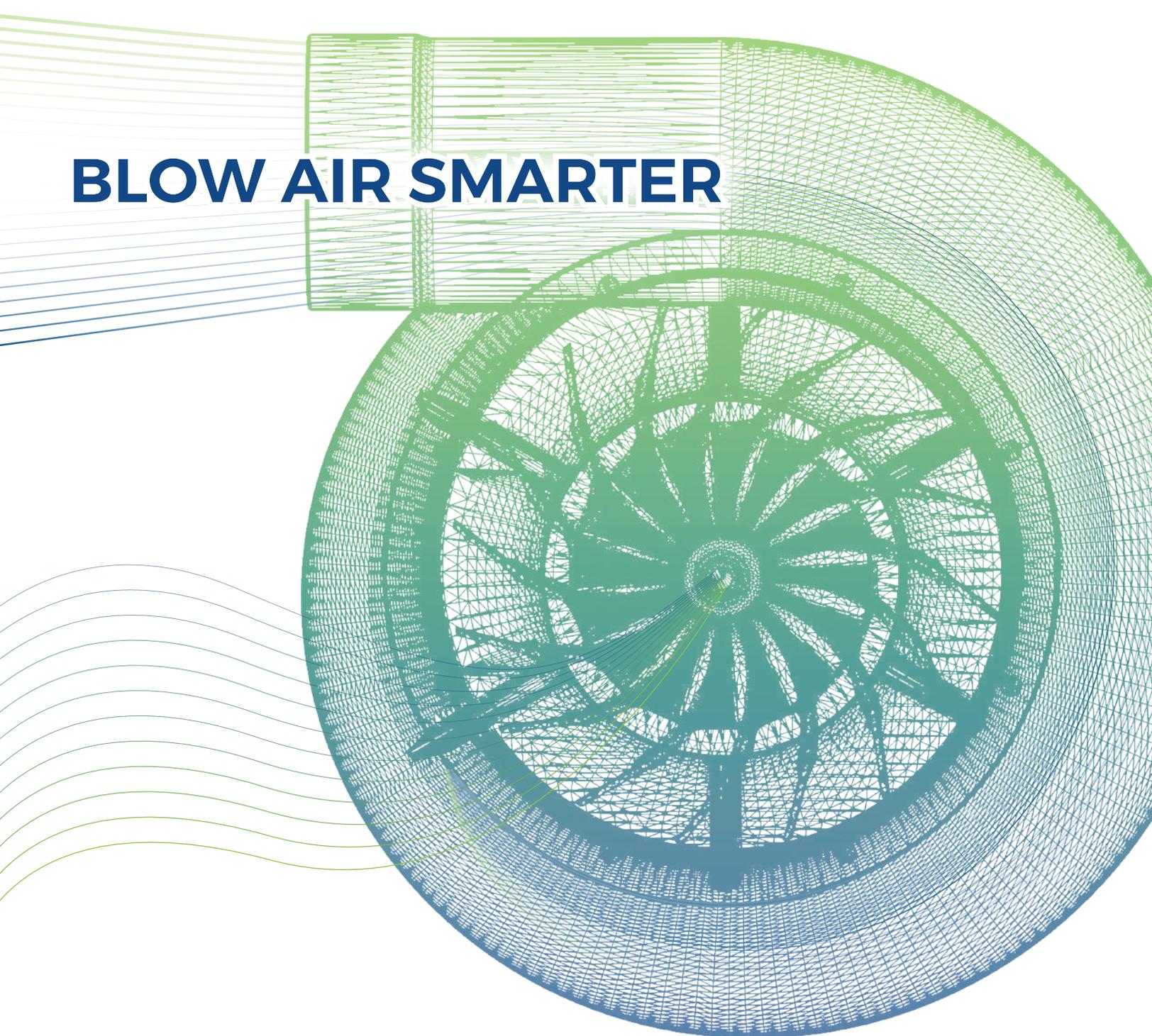




**BLOW AIR SMARTER**





WITH 60 YEARS OF INDUSTRY EXPERTISE COMBINED WITH THE STRONG GLOBAL FOUNDATION OF ITW, PAXTON PRODUCTS IS THE PREFERRED SOLUTION FOR DRYING, BLOW OFF AND AIR RINSING APPLICATIONS AROUND THE WORLD.

# Why Paxton Products

## MARKET LEADERSHIP

Sixty years of industry innovation and market leadership in blow-off and drying systems

## CUSTOMIZED SOLUTIONS

Trusted engineering expertise in the design of solutions tailored to meet specific application needs while maximizing energy efficiencies and lowering operating costs

## TECHNOLOGY LEADERSHIP

Paxton's PX-series blowers, launched in 2016, made a step-change in blower efficiency. Older technology has blower efficiencies of 50–60%; the PX-series ranges from 65–80% efficient

## LARGE INSTALLED BASE

A comprehensive list of customers throughout many industries

## What Our Customers Say

*"With the kind of energy savings we experienced, the PowerDry unit paid for itself in less than a year."*

*"The Paxton Ionized Air System does what it is supposed to do. It is nice to see a product work as advertised."*

*"The Paxton blowers not only outperform those previously installed, but they are also much quieter. And Paxton service was excellent throughout the entire process."*

*"I can't believe how well the Paxton system operates. We should have got this system a long time ago. Every month we remained with the old equipment, it's like we were throwing money down the drain in wasted energy costs."*

*"The Paxton Ionizing Air Rinser has been in operation in our plant for several years now. There have been no quality or mechanical issues during this time, and we are very satisfied with the performance."*

*"Paxton has met our expectations both with offered product performance and customer service. The Paxton team was wonderful to work with throughout the project. Their responsiveness, attention to detail, and amazing customer service was key to making this project a success."*

*"Paxton's equipment was easy to install and is very reliable. I recommend Paxton products to my colleagues at other breweries."*

*"We've been able to conserve water usage, which is a huge consideration here in California. The Paxton equipment is more compact and efficient than I thought. Paxton provided excellent customer service, working with our unique requirements, and their Ionizing Can Rinser is easy to use."*

# Leading the Way In Drying, Blow Off & Air Rinsing



## THE WORLD'S MOST EFFICIENT BLOWERS

Paxton PX-Series Centrifugal Blowers reach peak efficiencies of 80%—which is 15% higher than standard centrifugal blowers. Higher efficiency means better drying, blow off and air rinsing, while using significantly less energy.



## INDUSTRY LEADING THREE YEAR BLOWER WARRANTY

Confident in the quality of our blowers, Paxton offers the best warranty in the industry: three full years.



## ENERGY SAVINGS

Paxton PX-series blower designs deliver more air power than traditional centrifugal blowers—often resulting in 5 hp less energy usage. That translates to over \$2400 per year savings.\*



## SUSTAINABLE BY DESIGN

Paxton Air Systems will significantly reduce the environmental footprint of your drying, blow off and air rinsing applications. Energy usage is reduced; and when air rinsing, water usage is eliminated. No water, no costly water disposal.



## OPTIMIZED AIR DELIVERY DEVICES

Paxton offers a wide variety of air delivery devices, to optimize drying, blow off and air rinsing. Designed and tested using Computational Fluid Dynamics (CFD), Paxton's air delivery devices outperform others.



## ENVIRONMENTALLY FRIENDLY AIR RINSING

Blower-driven Ionized Air Rinsing, pioneered by Paxton, eliminates the need for water rinsing and uses less energy than compressed air rinsing. Our patented design is proven for high and low speed lines, cans and bottles, even the challenging 2 liter PET bottle.



## RETURN ON INVESTMENT OFTEN LESS THAN ONE YEAR

When compared to compressed air drying and blow off, Paxton blowers can lower energy costs by as much as 80%, resulting in a very short return on investment, often less than one year.



## UNSURPASSED APPLICATION ENGINEERING EXPERTISE

Paxton's Application Engineers have a combined 75+ years of experience in air flow technology. This expertise, combined with our innovative in-house application testing lab, makes Paxton the unsurpassed leader in Engineering Expertise and Support both before and after solution development.

\*Assumes electricity rate of 7.5 cents/kWh and 24 x 360 operation

Sustainable by Design

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Custom Air Systems

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# Sustainable by Design

## MAXIMUM EFFICIENCY

COMPARED TO OTHER BLOWERS

**20–30% more efficient**  
than other centrifugal blowers

**5–10 hp savings**  
when switching to PX blowers

**\$2–4k savings per year**  
vs other blowers

## MORE ENERGY EFFICIENT

THAN COMPRESSED AIR

**80–90% of the energy**  
used by air compressors is wasted

**Blowers use only 20%**  
of the energy that compressed air uses

**Less than 1 year**  
return on investment

## WATER CONSERVATION

WHEN RINSING BOTTLES AND CANS

**5.6 million gallons of water**  
saved per year on a 1400 cpm line

**15% reduction in Water Use Ratio**  
as reported by one large bottler

**Over \$20,000 annual savings**  
in sewer costs for one craft brewer

### EXAMPLE OF ENERGY SAVINGS

#### COMPRESSED AIR DRYING SYSTEM

3 fan nozzles

75 cfm @ 80 psi

ENERGY USAGE\*

**\$9,893 per year**

#### PAXTON DRYING SYSTEM

3 hp centrifugal blower  
with 10 nozzles

300 cfm @ 1 psi

ENERGY USAGE

**\$1,063 per year**

Total energy savings  
**\$8,830 per year**

\*Assumes an energy cost of 7.0 cents/kWh and 24 x 7 operation

# Custom Air Systems

Air systems designed by Paxton bring the highest efficiency to a variety of industrial applications.

By combining a high efficiency centrifugal blower with custom engineered air delivery devices, a Paxton air system performs better.

- > **Drying** shears water and other liquids off of the target, leaving a clean, dry surface
- > **Blow off** removes dirt, shavings, sawdust, coatings, solvents
- > **Convey** moves and sorts parts, capsules, frozen foods and more
- > **Hold down** in vacuum mode, holds down fabrics, wood and plastics
- > **Rinsing/Cleaning** neutralizes static charge to release dust and particulates from bottles, cans, plastics, laminates and metal surfaces



## APPLICATIONS

### Bottling & Canning

### Craft Brew

### Food Processing & Packaging

### Industrial Products

### Pharma, Medical & Nutra

### Extrusions

### Electronics & Solar

	Water	Other liquids <sup>1</sup>	Particles <sup>2</sup>	Saw dust or metal shavings	After painting or coating	After wash or rinse	Pre-packaging	Vacuum hold down	Pneumatic conveying	Sorting	Static elimination	Ionized air rinsing	EXTRUDED PRODUCTS
	•	•			•								Tires
	•	•	•	•	•	•				•	•		Vinyl siding and building materials
	•	•	•		•	•				•	•		PVC and plastic pipes
	•	•	•		•	•							Metal rods
	•	•	•		•	•							Wire and coated wire
	•	•	•							•	•		Films
	•	•	•							•	•		Plastic sheets
	•	•	•		•	•				•	•		Composite decking
	•	•	•										<b>ELECTRONICS &amp; SOLAR</b>
	•	•	•							•	•		Flat panels
	•	•	•		•	•							Printed circuit boards
	•	•	•		•	•				•	•		Film and panels
	•	•	•										<b>INDUSTRIAL PRODUCTS</b>
	•	•	•		•					•	•		Automotive parts and wheels
	•	•	•		•	•				•	•		Conveyor belts
	•	•	•		•	•				•	•		Crates and trays
	•	•	•		•								Engine blocks
	•	•	•				•						Fabric
	•	•	•		•					•	•		Inline parts cleaning
	•	•	•		•	•				•	•		Machined parts
	•	•	•		•	•				•	•		Parts after painting or coating
	•	•	•		•	•		•	•	•	•		Plastic parts
	•	•	•		•					•	•		Radiators
	•	•	•		•					•	•		Rolled metals
	•	•	•		•								Transmissions
	•	•	•		•	•							Wood products

<sup>1</sup>including oils, cleaning agents, sealants, rust inhibitors, etc.

<sup>2</sup>dust, debris, powders, contaminants

## BEVERAGE & BOTTLING APPLICATIONS

- Aluminum and tin cans
- PET bottles
- Jars and glass bottles
- Pouches
- Crates & trays
- Kegs
- Craft brew

## FOOD, FOOD PROCESSING & FOOD PACKAGING APPLICATIONS

- Meats, fish and cheese
- Produce
- Frozen foods
- Coated foods (chocolate coated, sugar coated, etc.)
- Food molds
- Packaging
- Tin cans
- Jars
- Crates and trays
- Conveyor belts

## PHARMACEUTICAL, NUTRACEUTICAL & MEDICAL APPLICATIONS

- Liquid formulation production
- Capsule and caplet production
- IV and solution pouches
- Durable medical devices
- Packaging and overpack

	After wash or rinse	Prior to ink jet coding	Prior to labeling	Prior to packaging or overpack	Prevent corrosion and bacteria	Dry under the cap or lid	Hot melt labeling	Leak detection	Post shrink tunnel	Before freezing	Blow off cleaning	Accurate weighing	Prevent buildup	Distribute coating	Convey and sort	Ionized air rinsing
Aluminum and tin cans	•	•	•	•	•	•	•									•
PET bottles	•	•	•	•	•	•	•									•
Jars and glass bottles	•	•	•	•	•	•	•									•
Pouches	•	•	•	•												•
Crates & trays	•			•												•
Kegs	•	•	•	•	•	•	•									•
Craft brew	•	•	•	•	•	•	•									•
Meats, fish and cheese	•	•	•	•	•	•	•		•	•	•					
Produce	•		•							•						
Frozen foods	•		•						•		•				•	
Coated foods (chocolate coated, sugar coated, etc.)			•										•	•		
Food molds	•			•												
Packaging	•	•	•	•	•	•	•			•	•					•
Tin cans	•	•	•	•	•	•	•			•	•					•
Jars	•	•	•	•	•	•	•			•	•					•
Crates and trays	•			•						•	•					•
Conveyor belts	•									•	•	•				
Liquid formulation production	•									•						
Capsule and caplet production		•		•					•				•	•		
IV and solution pouches	•	•	•	•	•											•
Durable medical devices		•	•	•			•									•
Packaging and overpack	•	•	•	•		•	•			•				•	•	

# Bottling & Canning

Paxton has served the canning and bottling industry for more than half a century; and understands the importance of drying technology for enhancing speed and productivity in bottling and canning facilities, while ensuring the highest product quality.

All Paxton systems are custom engineered to meet the specific needs of the client: the package size and type, the line configuration and speed and the quality standards. Paxton Air Systems are configured for line speeds as low as 30 bpm up to over 1200 cpm.

## BENEFITS:

- Increase line speeds
- Reduce customer returns
- Improve quality of ink jet coding
- Decrease vision system rejects
- Prevent corrosion and bacterial growth under the lids
- Ensure adhesion of heat shrinkable and pressure sensitive labels
- Eliminate compressed air drying or rinsing
- Eliminate water rinsing
- Reduce energy usage by as much as 80%
- Contain water spray using CapDryer and CanDryer

- After wash or rinse
- Prior to ink jet coding
- Prior to labeling
- Prior to packaging or overpack
- Prevent corrosion and bacteria
- Dry under the cap or lid
- Hot melt labeling
- Pre-packaging
- Ionized air rinsing

BEVERAGE & BOTTLING APPLICATIONS								
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●



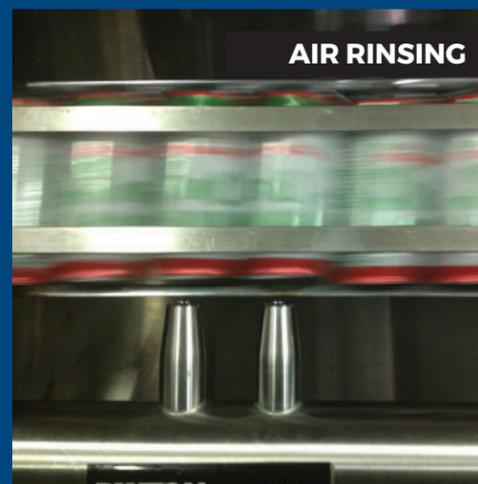
SPYDER DRYING



INLINE DRYING



CANDRYER TUNNEL



AIR RINSING



MASS CONVEYOR DRYING



SINGLE FILE DRYING



CAP DRYING

## PAXTON PRODUCTS USED:

- **PowerDry System** leads the industry for date coding applications
- **PX-series blowers** are configured with air delivery devices to blow off and dry throughout the bottling and canning process, with air knife configurations for single file drying, mass drying and drying after the shrink tunnel
- **The Ionizing Bottle Rinser and Ionizing Can Rinser** maximizes cleaning performance while minimizing energy usage. The Rinsers have configurations for both high speed and low speed lines; and can be used for glass and PET bottles ranging from 8 oz to 2 liter; and the Can Rinser for all size beverage cans
- **The Paxton CapDryer System** provides complete drying of the bottle neck and lid to improve quality of coding, tamper banding, labeling and vision system results
- **Paxton's Integral CanDryer System** dries 8-24 oz cans, replacing conventional air knives and nozzles with an all-in-one manifold to improve drying while enhancing usability and production floor safety





## Industrial Products

Whether drying, coating, cooling, conveying or blowing off debris prior to finishing or packaging, Paxton blowers and air delivery devices are more energy efficient and will get the job done.

With blowers from 3 hp to 20 hp, Paxton has the right size for your product.



### PAXTON PRODUCTS USED:

- > **Paxton PX-series blowers** are configured with air delivery devices to blow off, dry and convey
- > **Nozzle manifolds** are used when the target is more than 5" away; or for irregular shapes and products having nooks, crannies and holes
- > **Air knives** provide a continuous air stream across the surface of the target
- > **Paxton Ionized Air System** eliminates static, releasing dust and dirt prior to painting, finishing or packaging

	Water	Other liquids <sup>1</sup>	Particles <sup>2</sup>	Saw dust or metal shavings	After painting or coating	After wash or rinse	Pre-packaging	Vacuum hold down	Pneumatic conveying	Sorting	Static elimination	Ionized air rinsing	
INDUSTRIAL PRODUCTS													
•	•	•	•	•	•	•	•	•	•	•	•	•	Automotive parts and wheels
•	•	•	•	•	•	•	•	•	•	•	•	•	Conveyor belts
•	•	•	•	•	•	•	•	•	•	•	•	•	Crates and trays
•	•	•	•	•	•	•	•	•	•	•	•	•	Engine blocks
•	•	•	•	•	•	•	•	•	•	•	•	•	Fabric
•	•	•	•	•	•	•	•	•	•	•	•	•	Inline parts cleaning
•	•	•	•	•	•	•	•	•	•	•	•	•	Machined parts
•	•	•	•	•	•	•	•	•	•	•	•	•	Parts after painting or coating
•	•	•	•	•	•	•	•	•	•	•	•	•	Plastic parts
•	•	•	•	•	•	•	•	•	•	•	•	•	Radiators
•	•	•	•	•	•	•	•	•	•	•	•	•	Rolled metals
•	•	•	•	•	•	•	•	•	•	•	•	•	Transmissions
•	•	•	•	•	•	•	•	•	•	•	•	•	Wood products

<sup>1</sup> including oils, cleaning agents, sealants, rust inhibitors, etc.  
<sup>2</sup> dust, debris, powders, contaminants

## Pharma, Medical and Nutra

Medical devices, pharmaceuticals and nutraceuticals must meet the highest standards of clean production and packaging.

Paxton Air Systems can be configured to meet GMP standards for these sensitive applications by including stainless steel air knives and air manifolds, a blower washdown enclosure, and HEPA outlet filtration for the blower.



### PAXTON PRODUCTS USED:

- > **Paxton PX-series blowers** are configured with a washdown enclosure and stainless steel air delivery devices to blow off, dry, convey and clean
- > **Power Dry Systems** dry the tops and under the rims of jars and bottles
- > **The Ionized Air System** will remove dust and particulates prior to or during packaging

### PHARMACEUTICAL, NUTRACEUTICAL AND MEDICAL APPLICATIONS

	After wash or rinse	Prior to ink jet coding	Prior to labelling	Prior to packaging or overpack	Prevent corrosion and bacteria	Dry under the cap or lid	Hot melt labelling	Post shrink tunnel	Blow off cleaning	Distribute coating	Convey and sort	Ionized air rinsing
Liquid formulation production	•											
Capsule and caplet production		•		•				•		•	•	
IV and solution pouches	•	•	•	•	•							•
Durable medical devices		•	•			•						•
Packaging and overpack	•	•	•		•	•		•		•	•	•



## Extrusions

Fast, effective blow off is critical to maintaining production rates. Paxton Air Systems not only blow off fast, but enhance the quality by eliminating oils and scales associated with compressed air.

And Paxton Air Systems use 1/5 the energy of compressed air. Highest quality. Lowest energy usage. Guaranteed.



### PAXTON PRODUCTS USED:

- > **Paxton PX-series blowers** are configured with a washdown enclosure and stainless steel air delivery devices to blow off, dry, convey and clean
- > **Power Dry Systems** dry the tops and under the rims of jars and bottles
- > **The Ionized Air System** will remove dust and particulates prior to or during packaging

	Water	Other liquids <sup>1</sup>	Particles <sup>2</sup>	After painting or coating	After wash or rinse	Pre-packaging	Static elimination	Ionized air rinsing	EXTRUDED PRODUCTS
•	•	•							Tires
•	•	•	•	•	•	•	•	•	Vinyl siding
•	•	•		•	•	•			PVC and plastic pipes
•	•	•	•	•	•				Metal rods
•	•	•	•	•	•				Wire and coated wire
•	•	•				•	•		Film
•	•	•				•	•		Plastic sheets

<sup>1</sup> including oils, cleaning agents, sealants, rust inhibitors, etc.  
<sup>2</sup> dust, debris, powders, contaminants



Electronic and solar applications require the cleanest air. Paxton blowers configured with HEPA filtration for the air exiting the blower give the highest air quality while using 1/5 the energy.

Paxton provides a wide variety of air delivery devices, with available ionizing to neutralize static and release adhered particulates. Paxton Air Systems can clean and dry any component to meet exacting standards.

### PAXTON PRODUCTS USED:

- > **Paxton PX-series blowers** are configured with air delivery devices to blow off, dry, clean and air rinse
- > **The Paxton Ionized Air System** neutralizes static to blow away adhered dirt, dust and particulates

## Electronics and Solar

	Water	Other liquids <sup>1</sup>	After painting or coating	After wash or rinse	Pre-packaging	Static elimination	Ionized air rinsing	ELECTRONICS AND SOLAR
•	•							Flat panels
•	•	•	•	•	•			Printed circuit boards
•	•		•	•	•	•	•	Film and panels

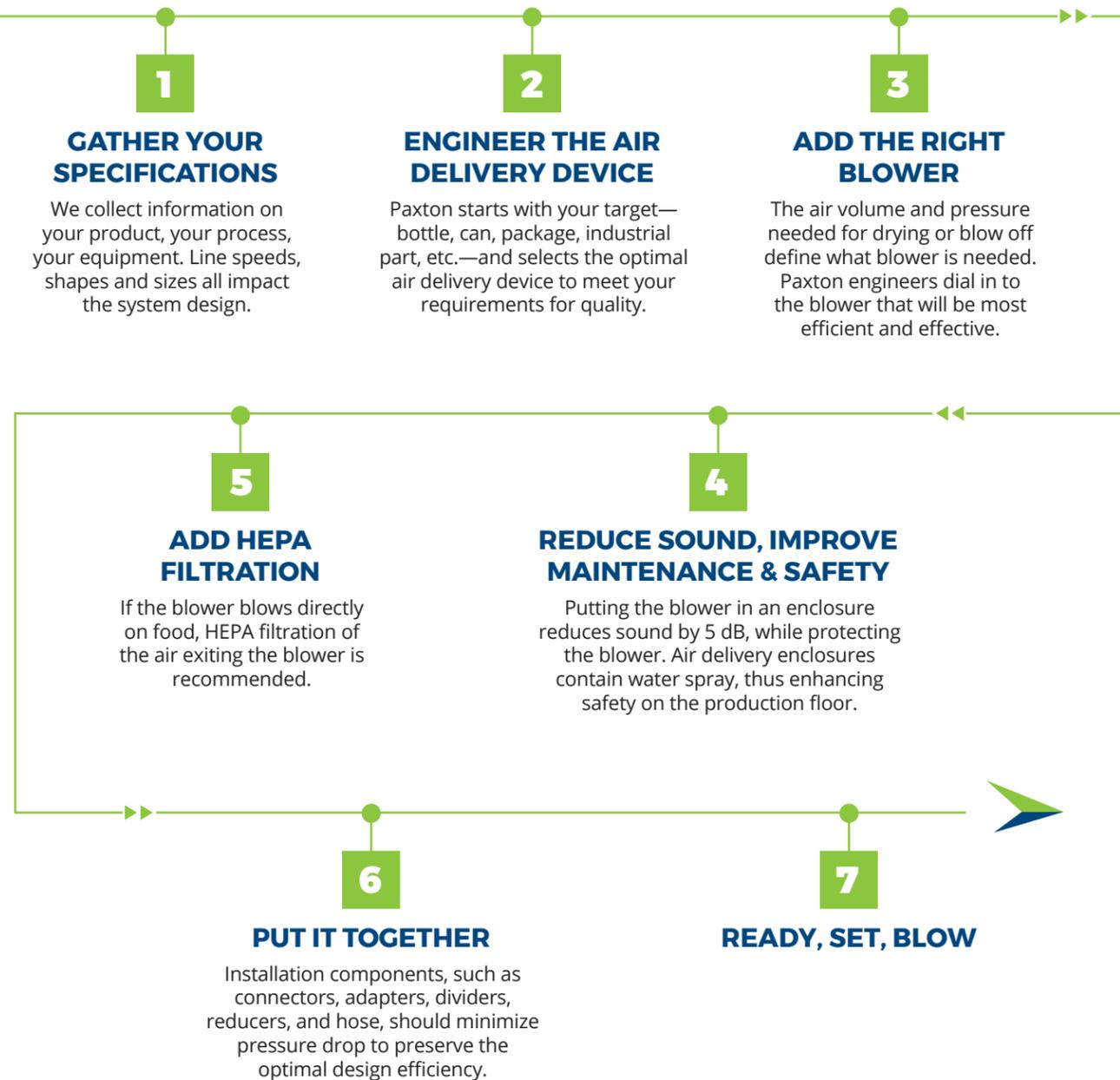
<sup>1</sup> including oils, cleaning agents, sealants, rust inhibitors, etc.

# Building a Paxton Air System

# Air Delivery Devices

Paxton Products designs and manufactures high performance air delivery systems that are custom engineered to optimize drying, blow off and cleaning of your products. The process begins with your application: what size, what shape, what speed, how much water or debris to be blown, what configurations—then the air delivery device is engineered to these requirements.

No matter what configuration of air is needed, Paxton has it, from drying a single surface to 360 degree drying. And if you can't find the configuration that works for you, Paxton will design an air delivery device that will.



**AIR KNIVES**



**SPYDER MANIFOLDS**



**INLINE MANIFOLDS**



**NOZZLE MANIFOLDS**



**CAP AND CAN DRYERS**



**UNO NOZZLES**



# Air Knives and Ionizing Air Knives

Available in both aluminum\* and 304 stainless steel, Paxton Air Knives are designed to give maximum efficiency for high velocity drying, blow off and cleaning applications. The air knives feature a continuous, uninterrupted air slot design that give a high velocity, high impact air stream and uniform coverage over the target area, with a standard gap setting of 0.055 inches (1.4 mm). The rugged 304 SS construction of the stainless steel air knives stand up to the harsh detergents used in washdown facilities. A side inlet is standard on the air knives; top, front and dual inlets are also available.

*\*Ionizing Option not available in Aluminum*

# Nozzle Manifolds and Ionizing Manifolds

Paxton Nozzle Manifolds are ideal for applications that require a greater than standard distance between the air source and the surface to be dried or blown off.

Nozzle Manifolds maintain thrust as far away as 18 inches (450 mm).

## PERFORMANCE SPECIFICATIONS

PRESSURE inches of water	AIR FLOW cfm, per inch of air knife
40	9.5
50	10.5
60	11.3
70	12.2

PRESSURE mbar	AIR FLOW m <sup>3</sup> /hr, per cm of air knife
100	6.3
125	7.0
150	7.6
175	8.1



## NOZZLE MANIFOLDS ARE THE IDEAL BLOW OFF SOLUTION FOR:

- > Conveyors of multiple item types of various sizes and shapes
- > Products that have a multi-faceted surface to dry
- > Products with nooks, crannies or holes
- > Applications requiring air with a concentrated high thrust
- > Applications where it is critical to mount the air delivery devices more than 5 inches (130 mm) from the blow off surface

## PERFORMANCE SPECIFICATIONS

PRESSURE inches of water	AIR FLOW cfm per nozzle
40	34
50	38
60	41
70	44

PRESSURE mbar	AIR FLOW m <sup>3</sup> /hr per nozzle
100	58
125	65
150	69
175	75

# Spyder Manifolds

Now available in 3 sizes, the Spyder Manifold is the most effective system for drying tips, sides and under the rim of cans, bottles and jars. Spyder Manifolds combine inline nozzles with "spider-like" arms that flex to any position to reach under and around to accommodate specific drying needs.

The spyder arms quickly adjust to different sizes and shapes, for multi-purpose lines.

- > Under the crown and the rim
- > Adjustable for varying product and package sizes
- > Prevents bacteria and corrosion under the lid



### SPECIFICATIONS:

- > Available in polyethylene and stainless steel
- > Nozzles:
  - Loc-Line nozzle construction
  - ½ inch (1.3 cm) ID
  - Flare Tips

<b>NO. OF SPYDER ARMS</b>	4	8	16
<b>NO. OF INLINE NOZZLES</b>	6	4	6
<b>LENGTH</b>	30" (76 cm)	30" (76 cm)	40" (102 cm)
<b>OUTSIDE DIAMETER</b>	3" (7.6 cm)		
<b>SPYDER ARM LENGTH</b>	15.5" (39 cm)		

# Inline Manifolds

The Inline Manifold is ideal for drying the tops or bottoms of cans, jars, and other containers thoroughly, prior to date coding or other packaging operations. The Inline manifold has six nozzles focused on the top surface of the product and is available with either a polypropylene manifold or a 304 stainless steel manifold, both with Loc-Line nozzles.

The spacing of the nozzles powers a one-two-three thrust at the target.



### SPECIFICATIONS:

- > Available in both polyethylene and stainless steel
- > 30 inches long x 3 inch OD (76.2 cm long x 7.62 cm OD)
- > Six in-line nozzles, positioned in sets of two
  - Loc-Line construction
  - 3.5 inch (8.9 cm) long
  - ½ inch (1.3 cm) ID

# CapDryer

Available in two sizes, the Paxton CapDryer provides complete drying of the bottle neck and lid to improve quality of coding, tamper banding, labeling and vision system results. Adjustable for most bottle types and sizes, the CapDryer is coupled with a Paxton blower to thoroughly dry the bottle cap and throat within an 18–30 inch (467–762 mm) footprint.



- > Effectively dries bottles ranging from 8 oz to 3 liters
- > 12 or 24 nozzles providing multi-directional blow off
- > Built-in spray containment
- > Stainless steel construction
- > Integral mounting arm and optional empty bottle blow off included
- > Easily adjustable by one operator for varying bottle sizes

# CanDryer

The Paxton CanDryer provides complete drying of 8 oz and 24 oz cans to improve quality of coding, labeling and packaging. It is easily adjustable to allow for varying can heights.

The CanDryer system replaces conventional air knives and nozzles with an all-in-one manifold to improve drying while enhancing usability and production floor safety.



- > Thoroughly dries the tops and sides of 8–24 oz cans
- > Eliminates variability due to air knife positioning
- > Improve safety by restricting water spray
- > Easily adjustable by one operator for varying can heights
- > Smaller footprint than conventional air knife drying systems
- > Incorporates two air knives and six nozzles into a single manifold
- > Integral mounting arm and optional empty can blow off
- > Stainless Steel construction

# Uno Nozzle

The Uno Nozzle provides targeted airflow for a small target. Designed to replace a single compressed air nozzle, remote from a larger air delivery device, Paxton's Uno nozzles facilitate further reduction in compressed air usage.

The Uno nozzle is now available in swivel version, to give flexibility in mounting and positioning.



	SWIVEL UNO NOZZLE	UNO NOZZLE
<b>CONSTRUCTION</b>	304 stainless steel body and nozzle	304 stainless steel body with Loc Line nozzle
<b>INLET</b>	3/4"-14 NPT threaded	2 in ID hose 5.1 cm ID hose
<b>OUTLET</b>	1/2 inch SS 1.3 cm SS	1/2 inch Loc Line 1.3 cm Loc Line

# High Performance Centrifugal Blowers

Paxton Centrifugal Blowers offer ultra-high efficiency solutions for process air, drying, vacuum and air rinsing applications. Paxton's new PX-series blowers provide a step-change in blower efficiency, with the PX-series blowers as much as 30% more efficient than the previous generation blower. The PX-series blowers are available in sizes from 3 hp to 20 hp, with air flows from 100 cfm to 1500 cfm.

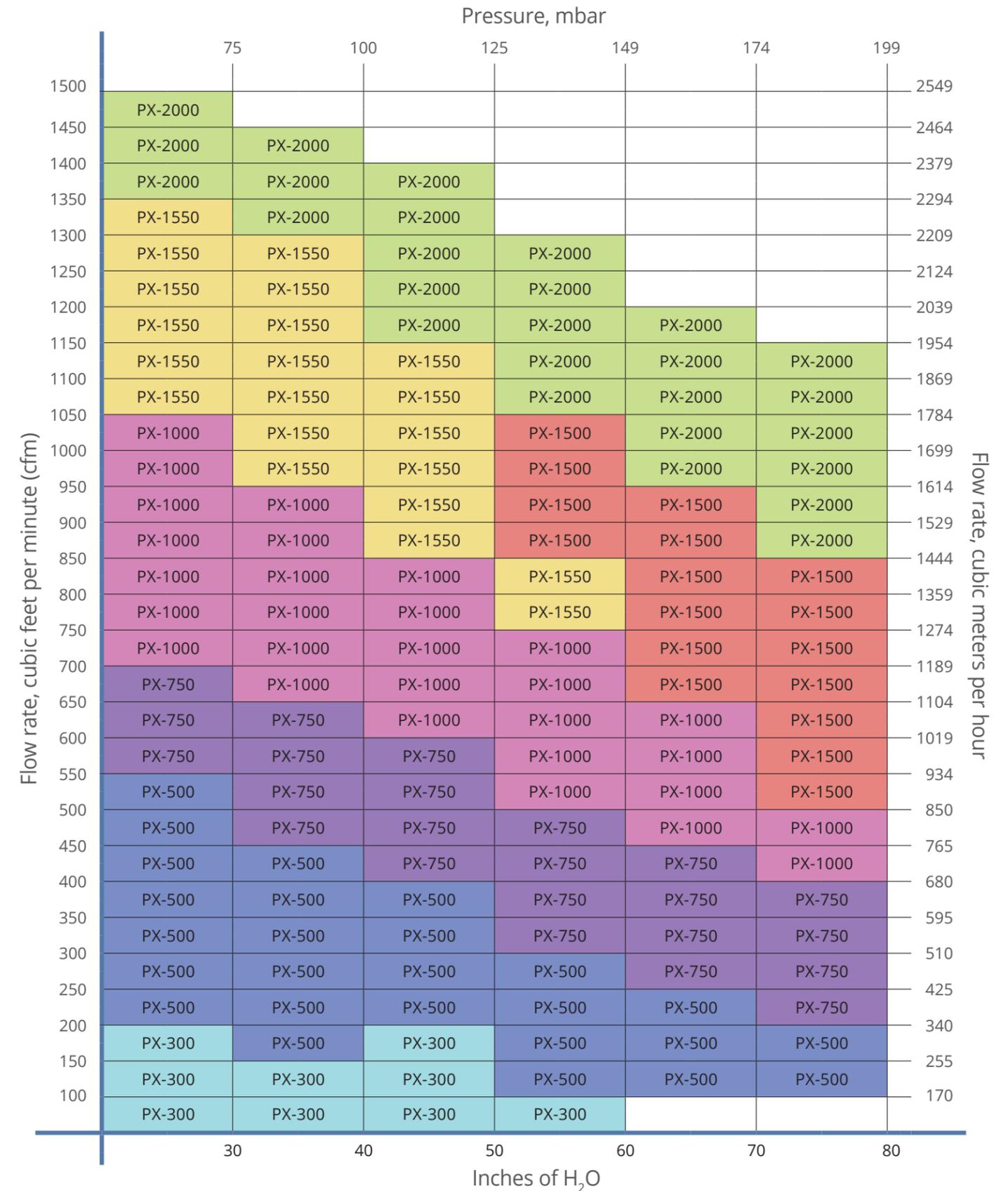
## MORE AIR POWER USING LESS HORSEPOWER

The PX-series aerodynamic design increases efficiency, meaning air power increases without increasing horsepower.

REPLACE THIS BLOWER	WITH THIS PX-SERIES	ANNUAL ELECTRIC SAVINGS*
7.5 hp centrifugal	5 hp PX-500	\$1200
10 hp centrifugal	7.5 hp PX-750	\$1200
15 hp centrifugal	10 hp PX-1000	\$2400
20 hp	15 hp PX-1500	\$2400
25-30 hp centrifugal	20 hp PX-2000	\$2400-\$4800
40 hp low efficiency	20 hp PX-2000	\$9600

\*Assumes electricity rate of 7.5 cents/kWh and 24 x 360 operation

## BLOWER SELECTION CHART (60HZ MOTORS)





### LOW MAINTENANCE

- > Two stage filter media gives improved performance and longer life
- > Long lasting belts
- > Unique belt tensioning systems

### LONGER SERVICE LIFE

- > Blowers are designed to use minimum belt tension for all pulley ratios, extending the life of the blower system

### STRINGENT QUALITY CONTROL TESTING

- > Constructed of the highest quality parts held to the strictest standards, every Paxton blower undergoes comprehensive performance, vibration and noise testing before leaving the factory

### VERSATILE APPLICATION OPTIONS

- > Paxton blowers can be configured for drying, vacuum hold down, conveying, air rinsing and other applications

### INDUSTRY-BEST BLOW OFF AND DRYING SYSTEMS

- > Unmatched performance in drying, blow off and air rinsing applications
- > Wide range of air knives, air manifolds and nozzles to produce an airstream that fits a wide range of products sizes, shapes and line configurations
- > Shears off and atomizes moisture at production speeds of up to 1000 feet per minute (305 meters/minute)
- > Patented Air Delivery design for high and low speed Air Rinsing applications
- > Novel CapDryer (patented) and CanDryer (patent pending) design replaces conventional air knives and nozzles with an all-in-one manifold to improve drying while enhancing usability and production floor safety

### CUSTOM ENGINEERED

- > All Paxton air delivery systems are custom engineered and configured to your specific product, line speed and configuration

### HIGHLY EFFICIENT FOR LOWER ENERGY COSTS

- > State-of-the-art impeller designs produce more airflow at lower blower speeds
- > Lowest belt tension yielding the highest efficiency belt per hp class
- > Improved belt design gives less friction;
  - Belt contains Aramid to reduce stretch to less than 1%
- > Two stage filter design reduces pressure drop and vibration

### HIGHLY RELIABLE

- > High load capacity bearing at rated speeds for long bearing life. ABEC 7 Super Precision Angular Contact bearing made in the USA
- > Stringent balancing, quality control and testing prior to leaving the factory
- > Unmatched 3 year warranty

### QUIET OPERATION

- > Advanced engineering and precision manufacturing reduce vibration and noise
- > All PX-series blowers are equipped with a silencer cartridge to reduce noise by 3 dBA
- > Sound levels can be further reduced with a blower and/or air delivery device enclosure

### SPACE SAVING DESIGN

- > Versatile mounting and outlet positions for tight spaces. All Paxton blowers meet IEC and NEMA standards

### MAXIMUM OPERATING TEMPERATURES

	°F	°C
Ambient operating temp.	105	41
Intake air temp. Standard configuration	120	49

# PX-Series Centrifugal Blowers

The Ultra High Efficiency PX-series blowers use state-of-the-art impellers and scroll designs to achieve blower efficiencies as high as 80%, to generate 33% more air flow than a standard centrifugal blower. This added efficiency means that when switching from a standard centrifugal blower (like Paxton's AT-series), often 5 horsepower less is needed to achieve the same air flows and pressures. The smaller motor uses substantially less electricity, yielding savings of over \$2400 per year.\*

The PX-series blowers are available in 3–20 hp, providing air flows from 100 cfm to 1500 cfm, and pressures of 30" H2O to 80" H2O.

\*Assumes electricity rate of 7.5 cents/kWh and 24 x 360 operation



## ADVANCED BELT DESIGN

Neoprene rubber reinforced with Aramid cord last 2x longer than standard polyester belts. Neoprene provides high grip and flexibility, extending life; Aramid adds strength and reduces stretch to extend belt life. Idler/tensioner uses 2 bearings for long life and smooth operation.

PREMIUM EFFICIENCY MOTOR OPTIONS	
NEMA	60 Hz, 230 / 460 V, 3 phase
NEMA	60 Hz, 190 / 380 V, 3 phase
NEMA	60 Hz, 575 V, 3 phase
IEC	60 Hz, 575 V, 3 phase

OPERATING TEMPERATURES		
Ambient	≤ 105 °F	≤ 40 °C
Intake Air	≤ 120 °F	≤ 49 °C

	POWER	MAXIMUM EFFICIENCY	MAXIMUM OUTPUT	MAXIMUM FLUID POWER	WEIGHT
<b>PX-300</b>	3 Hp	65%	200 cfm @ 56" H <sub>2</sub> O	200 cfm @ 56" H <sub>2</sub> O	140 lbs
	2.2 kW		340 m <sup>3</sup> /hr @ 139 mbar	340 m <sup>3</sup> /hr @ 139 mbar	64 kg
<b>PX-500</b>	5 Hp	66%	550 cfm @ 36" H <sub>2</sub> O	400 cfm @ 44" H <sub>2</sub> O	160 lbs
	3.7 kW		934 m <sup>3</sup> /hr @ 90 mbar	680 m <sup>3</sup> /hr @ 109 mbar	73 kg
<b>PX-750</b>	7.5 Hp	72%	700 cfm @ 30" H <sub>2</sub> O	500 cfm @ 57" H <sub>2</sub> O	190 lbs
	5.6 kW		1189 m <sup>3</sup> /hr @ 75 mbar	850 m <sup>3</sup> /hr @ 142 mbar	86 kg
<b>PX-1000</b>	10 Hp	80%	1050 cfm @ 33" H <sub>2</sub> O	600 cfm @ 73" H <sub>2</sub> O	215 lbs
	7.5 kW		1784 m <sup>3</sup> /hr @ 82 mbar	1020 m <sup>3</sup> /hr @ 181 mbar	98 kg
<b>PX-1500</b>	15 Hp	75%	1350 cfm @ 31" H <sub>2</sub> O	1100 cfm @ 52" H <sub>2</sub> O	210 lbs
	11 kW		2294 m <sup>3</sup> /hr @ 77 mbar	1869 m <sup>3</sup> /hr @ 129 mbar	95 kg
<b>PX-1550</b>	15 Hp	75%	1050 cfm @ 63" H <sub>2</sub> O	950 cfm @ 73" H <sub>2</sub> O	220 lbs
	11 kW		1784 m <sup>3</sup> /hr @ 157 mbar	1614 m <sup>3</sup> /hr @ 181 mbar	100 kg
<b>PX-2000</b>	20 Hp	76%	1500 cfm @ 35" H <sub>2</sub> O	1150 cfm @ 78" H <sub>2</sub> O	275 lbs
	15 kW		2548 m <sup>3</sup> /hr @ 87 mbar	1954 m <sup>3</sup> /hr @ 194 mbar	125 kg

# Systems

- > Ionizing Rinsers
- > PowerDry System
- > Cap and Can Dryer Systems

## Ionized Air System

### NO WATER OR COMPRESSED AIR NEEDED

The Ionized Air System sets the standard for a new generation of static elimination and air rinsing, dissipating the static charges that cause dirt, dust and contaminants to adhere to surfaces, and air blasting the contaminants away.

- > Prevent particles and dust from adhering to inside or outside of container walls
- > Effect a surface free of dirt, dust and particles to improve the surface finish
- > Reduce risk of microbiological growth caused by moisture in water rinses
- > Eliminate potential for water and oil contamination caused by compressed air
- > Significantly reduced energy usage by eliminating compressed air

#### FEATURES:

- > 304 stainless steel air delivery devices and mounting hardware withstand washdown environments
- > Inlet and Outlet filtration
- > Air Delivery Devices are available in lengths from 12" to 10' (0.3 to 3 m)
- > More active emitter points give increased ionization performance, compared to compressed air
- > More blow off force at the target
- > Emitter points are contained within the high velocity airstream of the manifold or knife to promote durability, safety and a consistently clean ionizing bar
- > System includes a highly efficient Paxton centrifugal blower, backed by a full three year warranty

#### IONIZED AIR SYSTEM APPLICATIONS:

##### BEVERAGE & BOTTLING APPLICATIONS

Aluminum and tin cans  
Jars and glass bottles  
Crates and trays  
PET bottles  
Pouches

##### ELECTRONICS & SOLAR

Flat panels  
Film and panels

##### PHARMACEUTICAL, NUTRACEUTICAL & MEDICAL APPLICATIONS

IV and solution pouches  
Durable medical devices  
Packaging and overpack  
Protein powder packaging

##### INDUSTRIAL PRODUCTS

Rolled metals  
Automotive parts and wheels  
Crates and trays  
Machined parts  
Plastic parts  
Parts after painting or coating

##### EXTRUDED PRODUCTS

Vinyl siding  
PVC and plastic pipes  
Films  
Plastic sheets

##### FOOD, FOOD PROCESSING & FOOD PACKAGING APPLICATIONS

Packaging  
Tin cans  
Jars  
Crates & trays

## IONIZING BOTTLE RINSER

- > Available for both high speed and low speed lines
- > Custom engineered 304SS air knife with a patent-pending design
- > Successfully qualified for plastic and glass bottles, ranging in size from 8 oz to 2 liters, with all common test media



### EACH IONIZED AIR SYSTEM INCLUDES THE FOLLOWING:

- > Paxton PX-series Centrifugal Blower, sized to fit based on length and type of air delivery
- > Ionizing Air Knife or Nozzle Manifold, type and length dependent on target and line speeds
- > Ionizing Power Supply, available with or without control relays
- > Blower Enclosure, protects the blower during washdown while reducing noise
- > 5 micron Filtration for air entering the blower; and HEPA Filtration for air exiting the blower
- > Optional components: Variable Frequency Drive, Custom Vacuum System

## IONIZING CAN RINSER

- > Custom engineered 304SS nozzle manifold with a patented design
- > Successfully qualified under all common test media: styrodot, cardboard dust, debris



## IONIZING RINSER VAC

The Ionizing Rinser Vac combines the powerful dust, particulate and debris removal of Paxton's Ionizing Air Rinser with powerful vacuum to contain and collect the dust and debris. The Rinser Vac is available in both closed loop (one blower) and two blower designs, dependent on application needs.

- > Remove and collect particles, dust and debris from inside or outside of container walls or other surfaces
- > Prevent re-deposition of dust and particulates

### FEATURES:

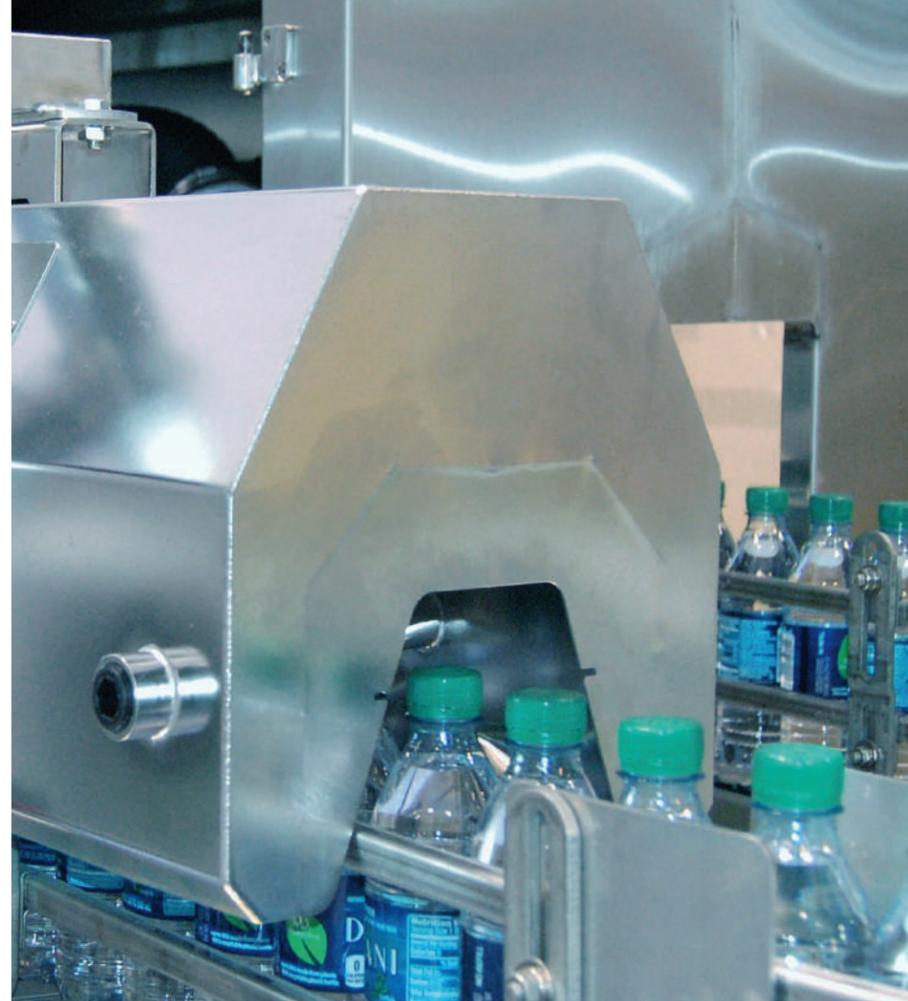
- > Custom-engineered based on specific target, line speeds and conveyor specifications
- > 304 stainless steel design of air delivery devices, vacuum enclosures and filter housings
- > Blow off powered by an ultra-high efficiency Paxton PX-series blower
- > Optional HEPA filtration for air exiting the blower
- > Easy inspection of dust, particulates and debris removed
- > Rinsing and vacuum in a compact footprint



Closed Loop Rinser Vac

### ADDITIONAL FEATURES FOR THE CLOSED LOOP SYSTEM:

- > Blower and filtration systems contained in easy to install and easy to maintain enclosure



## Cap and Can Dryer Systems

Paxton's Cap and Can Dryer Systems couple a powerful and efficient PX-series blower with the all-in-one manifold Cap and Can Dryers. Both systems are available for high and low speed line configurations and are ideal for multi-purpose lines where bottle or can sizes vary frequently.

- > Optimize drying quality by eliminating variability due to air knife positioning
- > Improve quality of coding, labeling, and vision system results
- > Improve production floor safety with built-in spray containment
- > Speed line changeovers with single operator positioning adjustability

### THE CAP AND CAN DRYER SYSTEMS ARE PRE-CONFIGURED AIR SYSTEMS THAT INCLUDE:

- > All-in-one air manifold
- > PX-series ultra high efficiency centrifugal blower
- > Manifold mounting arm with crank
- > Polypropylene blower enclosure
- > Installation components: fittings & adapters
- > Empty bottle/can blow off adapter

SPECIFICATIONS	CAPDRYER		CANDRYER	
	<500 bpm	>500 bpm	<500 cpm	>500 cpm
<b>Line Speed</b>	<500 bpm	>500 bpm	<500 cpm	>500 cpm
<b>Length</b>	18" (46 cm)	30" (76 cm)	24" (61 cm)	34" (86 cm)
<b># of nozzles</b>	12	24	6	6
<b>Slot length</b>	N/A	N/A	18	24
<b>Blower hp</b>	7.5	10	10	15

# PowerDry System

Originally designed for date coding applications, the patented PowerDry™ System sets the standard for a complete drying and blow off Air System that can be used for drying and blow off for a wide variety of cans, bottles and jars.

- Pays for itself in energy savings in about a year
- Eliminates moisture-related packaging, labeling and coding issues
- Adjusts to reach under lids, caps and crevices

## BENEFITS:

- Provides consistently dry surface suitable for date coding
- Saves up to 80% of total energy consumption, as compared to compressed air systems
- Return on investment is often less than one year
- Delivers moisture and debris removal for the tops and sides of bottles and cans
- Eliminates contamination due to oils, moisture and scale that may be present in compressed air
- Adjusts easily for quick product and container size changes
- Speeds conveyor lines up to 50% while reducing loss rates
- Adapts to any conveyor with line speeds up to 500 cans or bottles per minute
- Eliminates water spots and other moisture-related issues
- Offers washdown capabilities



## THE POWERDRY SYSTEM IS A PRE-CONFIGURED AIR SYSTEM THAT INCLUDES:

### AIR MANIFOLD

The Air Manifold is available in both Inline and Spyder configurations, stainless steel or polypropylene

#### INLINE MANIFOLD

Six nozzles that focus air on the upper surface of the product



#### SPYDER MANIFOLD

Four flexible “spyder” arms are added to the inline manifold. The spyder arms direct air to achieve blow off and drying of tops, sides and under the rim.

#### PX-300 BLOWER



3hp blower delivers accurate, consistent air volume and velocity

#### MOUNTING ARM

304 stainless steel



#### POLYPROPYLENE BLOWER ENCLOSURE

Rugged enclosure for washdown capability and noise abatement



# Accessories

- > Blower Enclosures
- > Air Delivery Enclosures
- > Maintenance Components
- > Installation Components

## Blower Enclosures

Blower enclosures protect the blower from water, dirt and other environmental factors, and during wash down processes, while reducing noise level significantly. Blower installation is simplified, and maintenance facilitated by easy access doors on two sides.

- > Protect in harsh, corrosive and wet environments
- > Significant sound abatement
- > Simplify blower installation
- > Easy to maintain
- > Maintain lower blower temperature for optimum performance



### FEATURES:

- > Strong, polypropylene or 304 stainless steel enclosures withstand harsh, wet environments
- > Oversized access doors for easy servicing
- > No crevices to hold moisture
- > Designed for movement and placement by fork lift
- > Blower pre-mounted in enclosure for easy installation
- > Swivel style (adjustable) leveling feet with anchoring holes
- > Half turn, fast-lock access door fasteners
- > Quick change, removable, reusable mesh pre-filters
- > O-ring sealed sanitary discharge pipe, 3 or 4 inches
- > Durable 304 stainless steel base

Enclosure Type	Propylene Blower Enclosure		Stainless Steel Blower Enclosure	
	52" x 30" x 22" 1321 x 762 x 559 mm	50" x 40" x 35" 1270 x 1016 x 889 mm	52" x 33" x 22" 1321 x 838 x 559 mm	50" x 40" x 37" 1270 x 1016 x 940 mm
PX-300	●		●	
PX-500	●		●	
PX-750	●		●	
PX-1000		●		●
PX-1500		●		●
PX-1550		●		●
PX-2000		●		●
Polypropylene Cabinet	●	●		
Stainless Steel Cabinet			●	●
Top Discharge		●		●
Bottom Discharge		●		●
Side Discharge	●		●	
3" Discharge	●		●	
4" Discharge		●		●
Clear Access Doors (2)	●	●		●
Positive Seal, fast lock fasteners	●	●	●	●
Full weld construction base, 304 Stainless Steel	●	●	●	●
Washable expanded aluminum mesh pre-filter	●	●	●	●

# Air Delivery Enclosures

Enclosures, made of 304 stainless steel, provide water, air and sound containment in your drying process. These enclosures keep the water contained inside the enclosure, then drained, eliminating mess on your factory floor – and eliminating any safety issues due to wet, slippery floors. Enclosures are custom designed for each application, ensuring maximum effectiveness. The unit is fitted to the individual line needs, and can be configured for all types of conveyor systems.

### ALL PAXTON ENCLOSURES ARE DESIGNED:

- > For ease of maintenance and durability: full TIG weld construction to eliminate area for bacterial growth
- > Easy to get into and out of with removable French-style doors to give full access, even in tight spaces
- > Water from blow off easily collects and drains, keeping product and floors dry
  - No drip product entry and exit system
- > Stainless steel doors with Lexan viewing windows
- > Minimal usage of fasteners, instead using welded connections
- > Minimal use of gasketed joints reduces maintenance needs
- > Durable 304 stainless steel to facilitate washdown
- > Swivel-style leveling feet with anchoring holes
- > Available in three standard sizes, 50", 62" and 74", to fit most air delivery device configurations
- > Optional top-mounted blower enclosure



# Maintenance Components & Guidelines

PAXTON PART	1 OR 2 SHIFTS/DAY OPERATION	3 SHIFTS/DAY OPERATION
Belts	12 months	6 months or 4000 hours
Belt Springs	12 months	6 months or 4000 hours
Tensioners	24 months	12 months
Silencer	12 months	12 months
Filters*	6 months	3 months

\* Filters must be changed as often as needed to maintain blower or system performance as measured by increased pressure drop across the filter. The filter must be changed if the pressure drop exceeds 10" of water column. Filter change frequency will vary widely based on environmental and atmospheric conditions.

In order to maintain the blower warranty, it is necessary to use genuine Paxton replacement parts replaced at the minimum frequency prescribed (see table).

Please refer to the Service and Maintenance Manual for replacement instructions.

## FILTRATION



### BLOWER INLET FILTRATION

Proper filtration of the air entering the blower is critical to blower operation and longevity. Paxton inlet filters employ two stage filtration to trap more particulates and stand up in harsh environments: an outer mesh, washable sleeve, and the inner polyester pleated filter.

Paxton inlet filters are 5 micron, 99% efficient.

	800 CFM FILTER	1500 CFM FILTER
PX-300	●	
PX-500	●	
PX-750	●	
PX-1000		●
PX-1500		●
PX-1550		●
PX-2000		●

### BLOWER OUTLET FILTRATION

For sensitive applications, such as when blowing directly onto food, outlet HEPA filtration can be added to Paxton blowers.

Paxton outlet filtration housings minimize pressure drop created by the filtration, to ensure optimum air power reaches the target application.

Additionally, Paxton's new housing designs are easy to maintain.



## MAINTENANCE COMPONENTS

### BELTS

Paxton belts are designed to reduce bearing loads, lengthening blower head life. PX-series belts are reinforced with Aramid cord to give strength and reduce stretch to less than 1%.



### TENSIONERS

Two-bearing design reduces vibration for long life and smooth operation.

Tensioners are designed to provide years of reliable service; the spring should be replaced annually to maintain tension for optimum belt life and blower performance.



### BLOWER HEADS

Paxton replacement blower heads come with an industry best 3 year warranty. Replacement blower heads are fully tested and must pass stringent quality testing for balancing and vibration, ensuring the highest reliability.



### SILENCERS

Paxton PX-series blowers come equipped with a silencer. The silencer reduces noise levels by about 3 dBA, while also reducing vibration to improve blower performance.



## MEASURING PRESSURE DROP

The inlet air filter must be replaced whenever the pressure drop across the filter exceeds 10" of water column, or annually, whichever comes first. A drop in pressure indicates a dirty filter. A complete loss of pressure indicates an electrical power issue or a mechanical problem such as a belt failure.

All Paxton PX-series blowers come equipped with a vacuum tap and gauge for inlet air filter monitoring.



# Installation Components

## ZERO LOSS ADAPTERS



Couplings and Reducers for transitioning from Schedule 40 PVC to hose



## STAINLESS STEEL REDUCER

For transitioning from Hose to Hose OR from Hose to Air Delivery Device

## CONNECTOR SLEEVE



Reinforced rubber with clamps for transitioning from pipe to pipe: 2, 3, and 4 inch



## STAINLESS STEEL ELBOWS

Low sweep elbows, in both 3 inch and 4 inch diameters, reduce pressure drop.

## FLEXIBLE HOSE



Black acrylic-coated polyester with steel wire reinforcement: 3 inch x 10 feet



## DIVIDERS

High density polyethylene construction: 2 way, 3 way and 4 way

## FLOW CONTROL VALVES



Regulate air flow & pressure to optimize performance: 3 inch and 4 inch OD



## VARIABLE FREQUENCY DRIVES

Controls the motor speed, so that the air flow and pressure of the Paxton blower can be adjusted if necessary, often due to varying container sizes

# Our History

Paxton Products finds its roots in the McCulloch Motor Company and Robert Paxton McCulloch, who developed the first belt-driven supercharger in 1937 for the Ford V8. In 1950, McCulloch started Paxton Engineering, to develop new product lines, including pumps and a new supercharger. Paxton Engineering changed quickly to Paxton Products, and in 1957, Paxton Products introduced the racing industry's first high-performance supercharger, an air compression device that enhanced the speed and performance of the engine. In response to the 1970's energy crisis, Paxton pioneered the first centrifugal blower for commercial and industrial applications, utilizing the same high-performance, energy-efficient air delivery technology used in the supercharger. The blower for industrial applications was driven by an electric motor and pulley system, producing significant amounts of air flow with minimal energy usage.

Paxton Products has continued to lead the industry in blower innovation through the years, culminating in the introduction of the most efficient 10-20 hp blowers in the world in 2016: Paxton's PX-Series Ultra High Efficiency Centrifugal Blowers. In 2019, Paxton launched the 3-7.5 hp PX-series blowers, improving efficiencies for these smaller, lower horsepower models, making the full Paxton line ultra-efficient.

Paxton Products was also a pioneer in the development of air knives and other air delivery devices, and is widely regarded as the foremost expert in air flow systems and solutions. Paxton has refined today's air delivery device designs for today's applications for precision-drying, coating control, removal of dust and other unwanted materials, as well as air curtains and other drying applications. The CapDryer, introduced in 2015, and the CanDryer, a new product in 2019, combine superior air flow and drying capability with ease of installation and use with enhanced production floor safety. Paxton Products' technical application engineers have decades of experience and can design a solution for your application needs.



# Our Industry Leading 3-Year Warranty



**3-YEAR FULL WARRANTY FOR PAXTON  
PX-SERIES CENTRIFUGAL BLOWERS,  
INCLUDING POWERDRY**

Paxton Products (“Paxton”), guarantees its standard PX-Series blowers, including the PX-300 PowerDry blower, against defects in the materials and workmanship for the 3-year Warranty Program period in accordance with the terms herein. The product must be installed and operated in accordance with the manufacturing specifications and the installation & maintenance instructions provided by Paxton using Paxton-provided replacement filters, belts and idler assemblies (“Maintenance Accessories”) for the warranty to apply. Proof of purchase of Paxton Maintenance Accessories at the prescribed frequency is required. Motors are warranted through Paxton under the terms provided by the respective motor manufacturer’s warranty only.



**Paxton Products / ITW Air Management**

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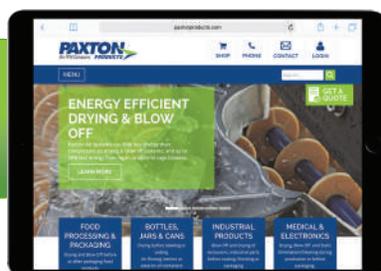
Worldwide: **513-891-7474**

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