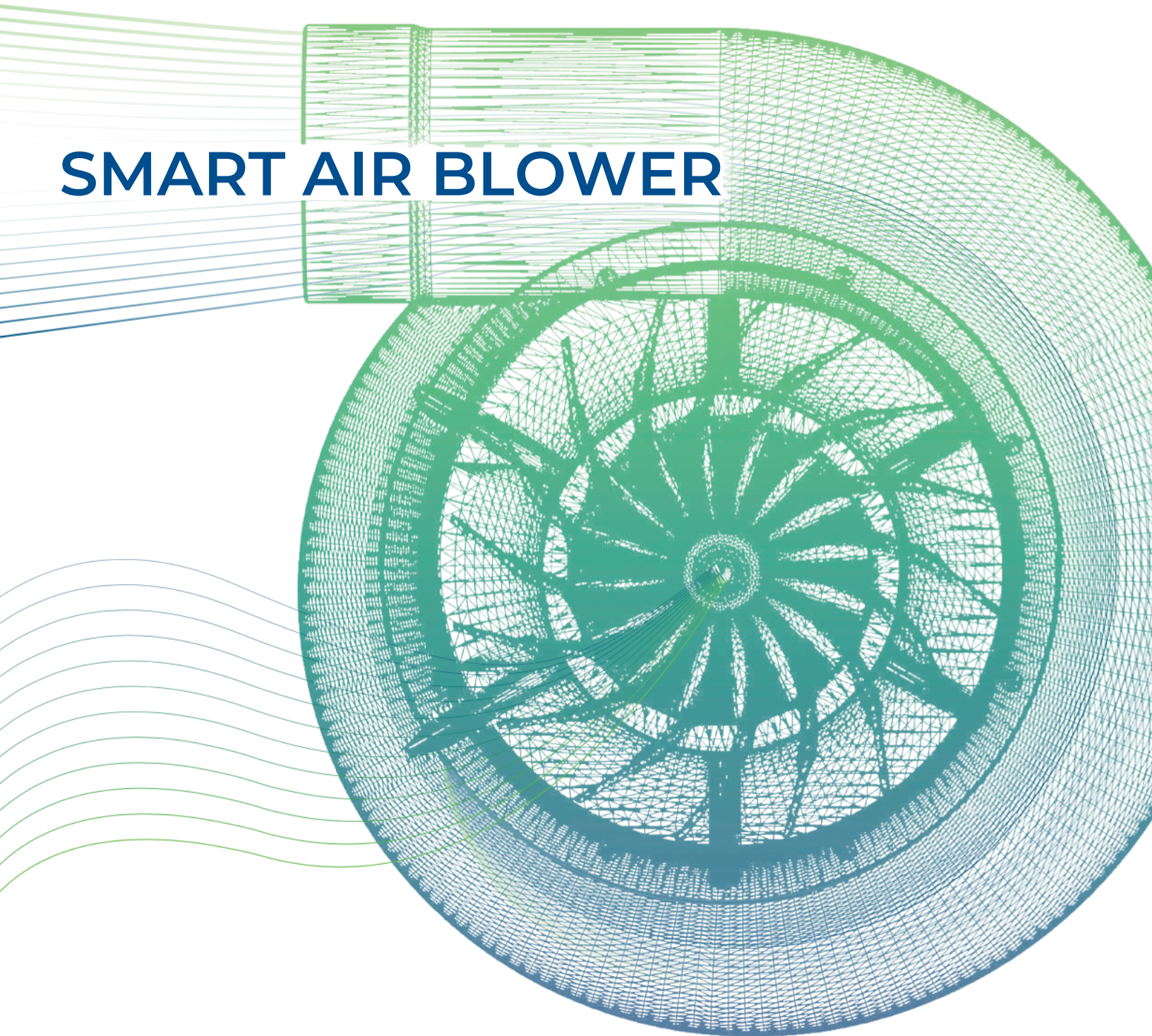


PAXTON PRODUCTS



บริษัท สยามเวล เอ็นจิเนียริ่ง ซัพพลาย จำกัด

SMART AIR BLOWER





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.

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*

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

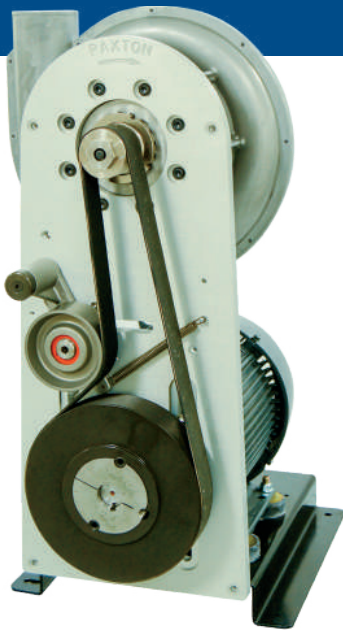


PX-Series Centrifugal Blowers

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*



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

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.

OPERATING TEMPERATURES

Ambient	≤ 105 °F	≤ 40 °C
Intake Air	≤ 120 °F	≤ 40 °C



	POWER	MAXIMUM EFFICIENCY	MAXIMUM OUTPUT	MAXIMUM FLUID POWER	WEIGHT
PX-300	3 Hp	65%	200 cfm @ 56" H2O	200 cfm @ 56" H2O	140 lbs
	2.2 kW		340 m3/hr @ 139 mbar	340 m3/hr @ 139 mbar	64 kg
PX-500	5 Hp	66%	550 cfm @ 36" H2O	400 cfm @ 44" H2O	160 lbs
	3.7 kW		934 m3/hr @ 90 mbar	680 m3/hr @ 109 mbar	73 kg
PX-750	7.5 Hp	72%	700 cfm @ 30" H2O	500 cfm @ 57" H2O	190 lbs
	5.6 kW		1189 m3/hr @ 75 mbar	850 m3/hr @ 142 mbar	86 kg
PX-1000	10 Hp	80%	1050 cfm @ 33" H2O	600 cfm @ 73" H2O	215 lbs
	7.5 kW		1784 m3/hr @ 82 mbar	1020 m3/hr @ 181 mbar	98 kg
PX-1500	15 Hp	75%	1350 cfm @ 31" H2O	1100 cfm @ 52" H2O	210 lbs
	11 kW		2294 m3/hr @ 77 mbar	1869 m3/hr @ 129 mbar	95 kg
PX-1550	15 Hp	75%	1050 cfm @ 63" H2O	950 cfm @ 73" H2O	220 lbs
	11 kW		1784 m3/hr @ 157 mbar	1614 m3/hr @ 181 mbar	100 kg
PX-2000	20 Hp	76%	1500 cfm @ 35" H2O	1150 cfm @ 78" H2O	275 lbs
	15 kW		2548 m3/hr @ 87 mbar	1954 m3/hr @ 194 mbar	125 kg

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.

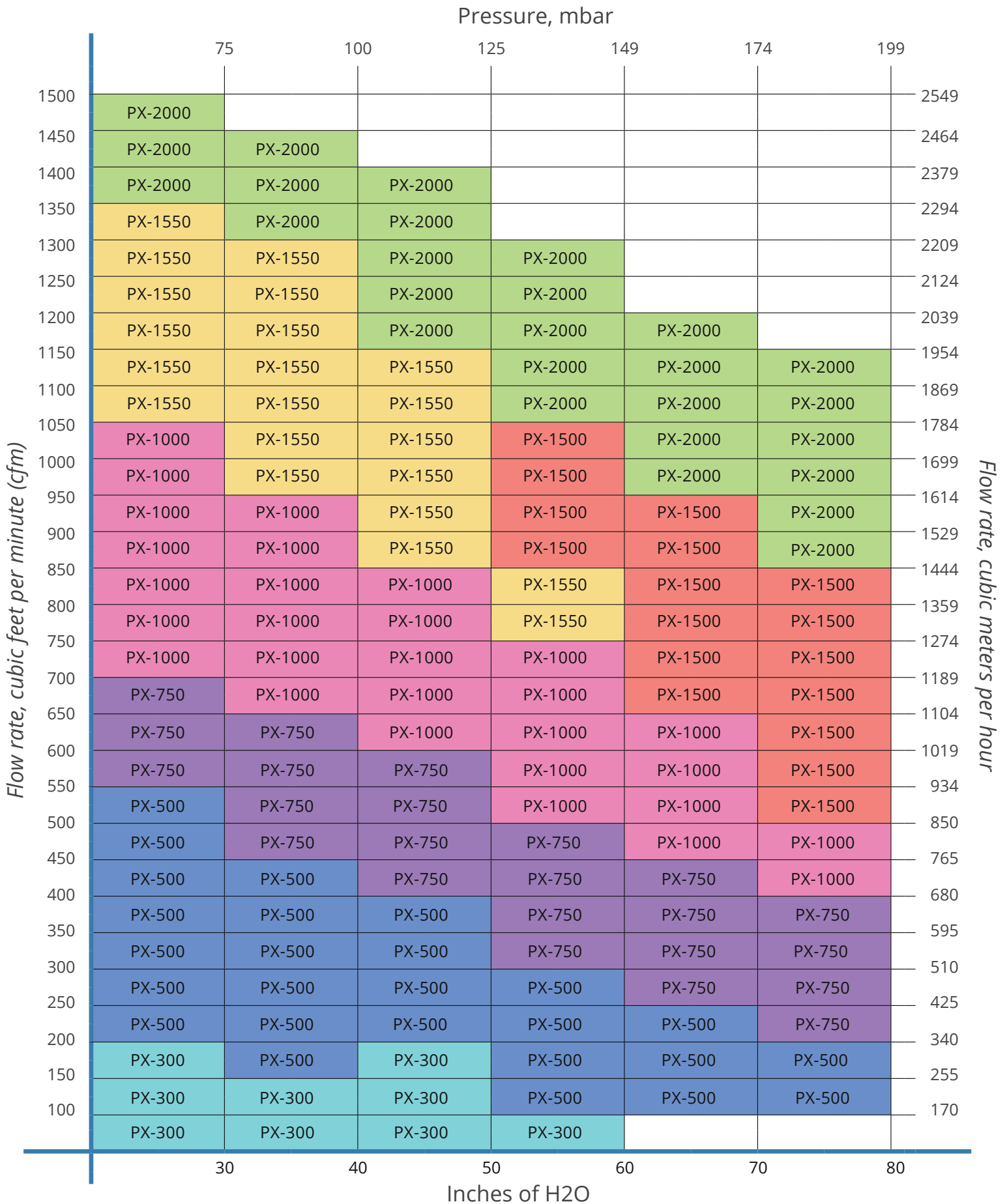
MORE AIR POWER USING LESS HORSEPOWER

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)





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*

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 m3/hr, per cm of air knife
100	6.3
125	7.0
150	7.6
175	8.1





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).

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 m3/hr per nozzle
100	58
125	65
150	69
175	75



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





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

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.

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UPDATED MAY 2023



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