



Air Delivery Systems for Drying, Blow Off, and Air Rinsing

No matter what configuration of air is needed, Paxton has it. From drying a single surface to 360 degree drying, Paxton builds it.

Paxton Products designs & manufactures high performance air delivery systems that are custom engineered to optimize drying and blow off 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.

Ensure label adhesion

Improve quality of ink jet coding

Prevent corrosion and bacteria

Speed conveyor lines by as much as 50%

Improve shrink sleeve label quality

Reduce drying / blow off costs

DRYING

Shears off water and other liquids, 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



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, blown off, or rinsed. Nozzle Manifolds maintain thrust as far away as 18 inches (450 mm).

Nozzle Manifolds are the ideal blow off solution for:

- can rinsing
- 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 ³ /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 tops, 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

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



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 air rinsing applications. The air knives feature a continuous, uninterrupted air slot design that gives 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.

Air knives are used for:

- shearing water off bottles, cans, food packages, other packaging, industrial products after washing
- removing debris, scrap, chemicals, and excess coating from a wide variety of products

PERFORMANCE SPECIFICATIONS:

PRESSURE inches of water	AIR FLOW cfm per inch of air knife	PRESSURE mbar	AIR FLOW m ³ /hr per cm of air knife
40	34	100	6.3
50	38	125	7.0
60	41	150	7.5
70	44	175	8.1



CapDryer

The CapDryer by Paxton Products provides complete drying of the bottle neck and lid to improve quality of coding, tamper banding, labelling and vision system results.



- Gave a ten-fold reduction in vision system rejection rates
- Improves adhesion & positioning of label and tamper band
- Eliminates coding quality issues due to smearing
- Targets the neck and cap of most bottle types
- Adjusts for bottles ranging from 8 oz to 3 liters
- Available in 2 sizes: 12 and 24 nozzle

CanDryer

Paxton's Integral CanDryer 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
- Eliminate variability due to air knife positioning
- Improve safety by restricting water spray
- Easily adjustable for varying can heights
- Smaller footprint than conventional air knife drying systems
- Incorporates two air knives and six nozzles into a single manifold. Available in two air knife lengths

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

Uno Nozzles

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, the Uno nozzle facilitates further reduction in compressed air usage.

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

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

