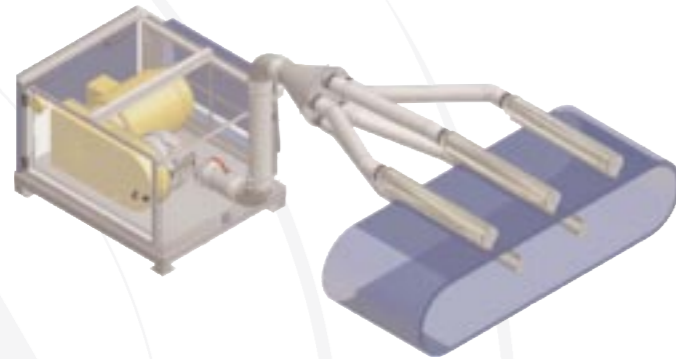
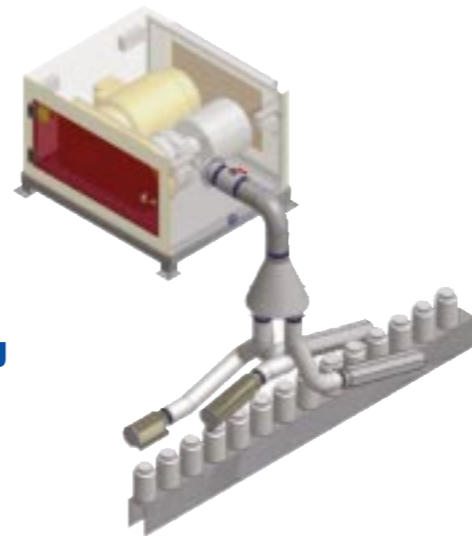


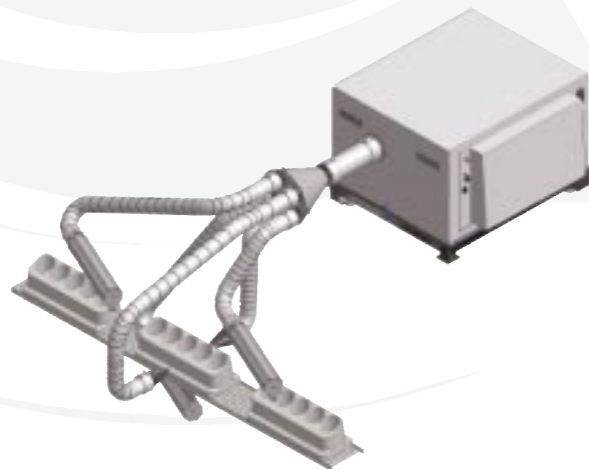
Steel Strip Drying & Conveyor Cleaning



Bottle & Can Drying



Parts Drying



Call today

for help with your special need.

Toll-free 1-800-847-0380

or visit our web site at www.republicsales.com

Republic Sales & Manufacturing Company
5131 Cash Road
Dallas, TX 75247
Tel 214-631-8070
Fax 214-631-3673

RBS9-0902



REPUBLIC
Blower Systems

Republic Air Knife Drying Systems

The Republic Air Knife Drying System produces a high velocity, high impact air stream which removes dust, industrial debris and liquids typically found following a wash, rinse or product filling operation. These air knife systems are engineered, manufactured and tested to provide a 100% dry part prior to labeling, ink jet coding, packaging or other secondary operations. The air knife assembly is available in extruded aluminum or stainless steel, with lengths from 1" up to 196" and with an adjustable gap for proper airstream control. Additionally, the air velocity can be adjusted in the field with an optional butterfly or dampener valve to

provide the appropriate pressure and airstream as required by the process. Multiple air knife and nozzle combinations can be connected to a manifold assembly, which in turn is powered by a single motor/blower system. Competing blower and air knife designs remove only part of the moisture and then rely on additional moisture evaporation as the part travels through the manufacturing process. The Republic Blower System, on the other hand, can provide the equipment to test the product at your facility or at our plant and then guarantee a drying solution that meets your particular operational requirements.

Republic Air Knife Drying Systems can also provide additional heat sources for those special high temperature applications where the product requires a controlled temperature heat cure or set. For cooling applications Republic can design and provide cold air systems for cooling parts as they exit your plating or coating operation.



Applications:

- ▲ Drying of:
 - PC boards and electrical components*
 - Bottles/cans*
 - Coiled steel*
 - Wire/cable*
 - Extrusions, hose, plastics and film.*
 - Batteries*
 - Confectionery/food toppings*
 - Medicine vials*
 - Stampings, forgings, machined parts*
 - Textiles, carpeting*
 - Packaged meat, fish and poultry products*
 - Produce/fruit/vegetables*
- ▲ Conveyor belt cleaning/drying
- ▲ Static control
- ▲ Air curtain to prevent hot air loss in an oven
- ▲ Air curtain to prevent cold air loss in a freezer
- ▲ Debris/dust/liquid blow off
- ▲ Coating control of primers, glue, adhesives and inks
- ▲ Plastics sheet/film/wire

5131 Cash Road ▲ Dallas, TX 75247 ▲ P 214.631.8070 ▲ F 214.631.3673 ▲ 1.800.847.0380

www.republicsales.com

Republic Drying System Components

Air Knife:

- ▲ Clear anodized aluminum, nickel plated aluminum, 316 stainless steel
- ▲ Inlet sizes: 2", 3" & 4"
- ▲ Gaps: Incrementally adjustable from zero to .250
- ▲ Styles available: Single inlet, dual inlet, middle inlet, or staggered multiple inlets
- ▲ Teardrop shape provides uninterrupted air stream for maximum velocity and efficiency.
- ▲ Externally clamped design for applications that require precise air streams
- ▲ Special designs: Square, rectangular and multiple strand wire drying



Airwipe:

- ▲ All stainless steel body construction
- ▲ Adjustable inserts for air stream adjustment. Inserts available in stainless steel, UHMW polypropylene, abrasive resistance coated steel
- ▲ Flanged for ease of mounting to existing equipment
- ▲ 4" inlet to allow for maximum air stream velocity
- ▲ For extrusion profiles providing complete circumference drying



Airwipe Enclosure:

- ▲ Polypropylene, stainless steel construction
- ▲ Acoustical design for noise reduction
- ▲ Top opening door with lift-off hinges for ease of entry
- ▲ Water drain system allows easy removal of collected water



Blowers:

- ▲ Robust design is efficient, easy to maintain and durable
- ▲ Low energy consumption
- ▲ Allows for increased production speeds or levels, thus a quick payback
- ▲ Reduced sound levels when compared with compressed air
- ▲ Provides dry, oil-free, high volume/pressure air for industrial applications



Blower/Motor Enclosure:

- ▲ Painted steel construction. available in stainless steel
- ▲ Acoustical foam lined for noise reduction
- ▲ Dual doors for ease of maintenance. Door comes standard with lift-off hinges.
- ▲ Low profile to fit under existing conveyors or equipment
- ▲ High profile for minimum footprint applications
- ▲ Filter change gauge on front door for ease of filter maintenance.
- ▲ Leveling pads



Motor/Blower Stands:

- ▲ Stainless steel construction or painted steel
- ▲ Standard heights: 18" & 42"
- ▲ Leveling pads



Reducers/Enlargers

- ▲ 316 stainless steel construction
- ▲ For 2", 3", 4" & 6" piping applications



Y Branch

- ▲ 316 stainless steel construction
- ▲ 2", 3", 4" & 6" inlet/outlet
- ▲ 4" inlet with (2) 3" outlets available in aluminum construction



Nozzle:

- ▲ 316 stainless steel construction
- ▲ Adjustable outlet
- ▲ Internal design maintains high velocity air stream
- ▲ Hose connections: 2" & 3"



Air Knife and Nozzle Support Brackets

- ▲ Provides vertical, horizontal & angular adjustments
- ▲ Stainless steel construction



Butterfly Valve:

- ▲ Anodized Aluminum construction
- ▲ Adjustable locking hand lever
- ▲ Also available in stainless steel
- ▲ Sizes: 3" & 4"



Hose and Clamps (EPDM Sleeves)

- ▲ High strength EPDM rubber with stainless steel hose clamps and 316 stainless steel hose clamps



Manifolds:

- ▲ 304 stainless steel with 4" inlets and 3, 4, 5 or 6 -3" outlets
- ▲ Special configurations available in 316 stainless steel or painted steel



Inlet Filter:

- ▲ 10 Micron standard. Special filters available in 3 and 5 micron
- ▲ Housing construction: Stainless steel or painted steel
- ▲ Filter change gauges standard on stainless steel models
- ▲ Filter media: Paper or polyester (washable/reusable)



HEPA Filters:

- ▲ Stainless steel welded canister
- ▲ Horizontal or vertical mounting
- ▲ Designed for minimum air flow loss through filter media

