



**REPUBLIC FOOD GRADE AIR KNIVES** are engineered, manufactured and tested to provide **liquid removal** from meat, produce, food products, and food packaging using a high velocity, high impact air stream.

Specifically designed to comply with all USDA, 3-A, and ANSI/NSF/3-A standards, Republic's Food Grade Air Knives and Accessories are engineered for **use in the meat, poultry, dairy, and food processing industries**. Utilized in conjunction with a Republic Centrifugal Blower and a HEPA filter, the food grade air knife protects food surfaces from contamination during **blow-off, drying, coating, and cooling** applications. All of the air knife's surfaces are easily cleanable and designed to make necessary inspections straightforward.

Available in a variety of standard sizes, Republic's Food Grade Air Knives can be effectively utilized on nearly any conveyor, mixer, or processing equipment. Custom-engineered systems and air knives are also available.

Our breadth of manufacturing equipment allows us to engineer and manufacture the additional components needed to complete your system; including the Republic Centrifugal Blower, butterfly valves to provide the appropriate pressure and air stream as needed, elbows, Y-branches, and manifolds.



Drying Produce



Leveling Icing

## Advantages

- Low energy consumption
- Dry, clean, oil-free air stream
- USDA, 3-A, and ANSI/NSF/3-A Compliant
- Filtered blower inlet prevents contamination
- Easily cleanable
- Safe, low pressure
- Increased production speeds and output for a quick payback
- Reduced sound levels when compared to compressed air nozzle or round tube design

## Available Options

- Special inlets available
- Custom designs available
- VFDs/ Motor Starters/ Soft Starters
- Motor/Blower Stands
- Blower Enclosures

## SYSTEM COMPONENTS



### Centrifugal Blowers

- 80% peak efficiency allows for lower power consumption, smaller motors, and less cost
- 7-8 times more bearing life
- Lower noise level
- 100% tested to meet the quoted performance standard



### Available Components

- USDA, 3-A, and ANSI/NSF/3-A compliant, adjustable air knife brackets
- Centrifugal Blower
- Food grade hose and piping
- HEPA Filter
- Stainless steel system components include:
  - Manifolds
  - Y-Branches
  - Butterfly Valves
  - Elbows