



Why use ACI Airknife Technology?

Although compressed air is readily available in most manufacturing facilities, its most inefficient use is for "surface blow-off" applications. Add to this the problems of oil and condensate filtration and the total running costs of a continually running compressor are substantial.

An optimised blower-based system ensures that efficient and effective surface blow-off is available for the lowest possible cost with minimal environmental consequences. By selecting an ACI Airknife System, you will improve the efficiency of your process, reduce running costs and increase productivity and reliability.

The Benefits

- Increased productivity
- Improved quality
- Improved environment
- Low running costs
- Energy saving
- Eliminates staining
- Low capital outlay
- Fast payback
- Easy to install
- Low maintenance costs

Airknife Drying Systems

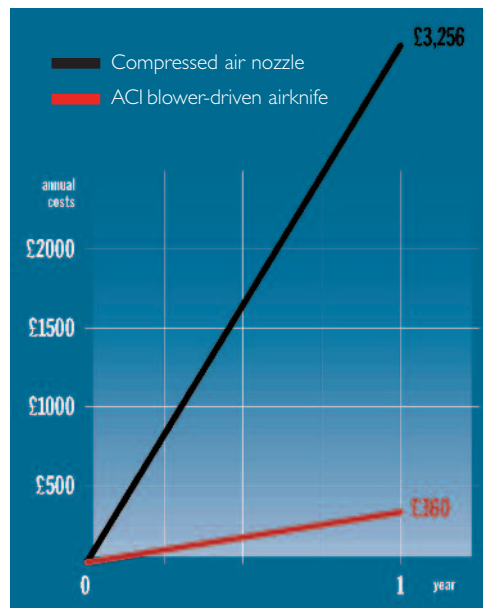
For any process requiring the removal of surface moisture, coatings, dust and contamination from a wide range of materials and shapes, ACI Airknife Systems are the Total Solution.

The Problem

Effective drying, cleaning spreading and cooling of conveyorised components are difficult production processes to achieve satisfactory results every time. Evidence of this is the wide assortment of techniques currently available.

The Solution

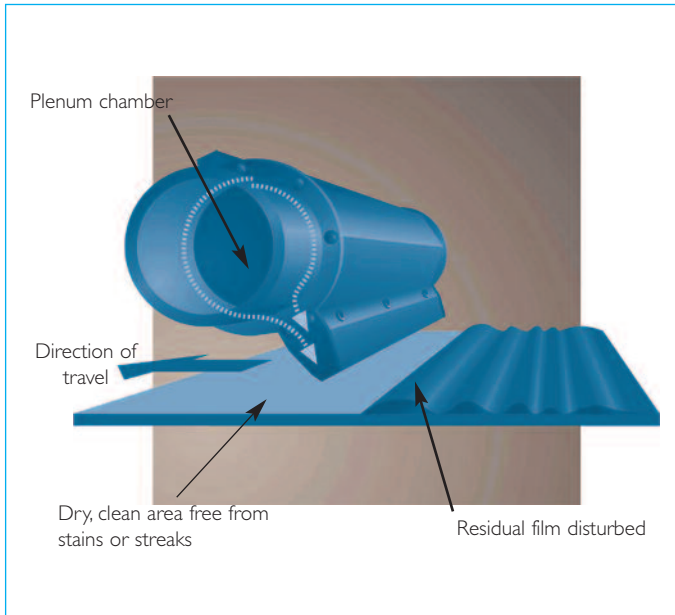
Drawing upon the expertise acquired over 30 years experience in specialised air movement engineering, ACI provides the answer in the form of their patented blower driven Airknife Systems. Powered by an appropriate ACI blower (type/power), an ACI Airknife System operates by blowing air into a plenum chamber and out through a slot to deliver a continuous, controlled curtain of high velocity, low pressure air.



Did you know?

The annual cost of compressed air blowing through 4 off 50mm flat bladed compressed air nozzles at 5 Bar is £3256.00 per annum. The cost of blowing air through a blower-driven 200mm airknife is £360.00 per annum.

Action on a simple rigid surface



The action of a high velocity blade of air on flat, smooth and hard surfaces is shown by the illustration above.

Typical Applications

The list of typical applications below is far from comprehensive, but illustrates the versatility of ACI Airknife Systems.

Drying

- Bottles, cans, pouches, jars and kegs
- Flat strip ferrous or non-ferrous
- Rubber or aluminium extrusions
- Automotive bodies and components
- Castings, pressings, machined components
- Printed circuit boards (pcb's)
- Carpet and other fabrics
- Fruit and vegetables



Film Control

- Oil, wax and glues
- Chocolate, batter and jam



Wiping

- Dust, swarf, filings and shavings
- Cleaning conveyors
- Ice

What do we need to know?

An Airknife System will vary in size and complexity depending on the characteristics of the product being processed. To ensure the customer is getting the Total Solution, the following is a short list of parameters that are required in order to perform an initial sizing exercise.

- Medium to be removed
- Max. and min. component size
- Distance from product to Airknife
- Speed of product past Airknife
- Airknife length
- Percentage of medium to be removed

