

# Air Knife Systems

## System Solutions Accessories

ACI Air Knife Systems will vary in size, shape and complexity from application to application. For this reason, ACI is able to offer a variety of accessories that will greatly assist customers with smooth installation, running and maintenance operations.

### Acoustic Enclosures for Blowers

To reduce any unwelcome noise emissions, ACI offer a range of acoustic enclosures that are modular in design and construction. They are generally fabricated from powder-coated mild steel or stainless steel panels which are lined with sound absorbing acoustic foam.

ACI acoustic enclosures are normally free-standing units which allow for easy access. Additionally they are robust enough to be located outside if required. Enclosures can be fitted with built-in filters, optional ducted inlets with side entry filters (for re-circulated systems); and pressure differential gauges. The standard colour is RAL5010, but they can be supplied to a customer's specified colour if required.

### Support Framework

These are typically stainless steel structures that perform as a complete fixing structure for ACI System Solutions. They are simple to install and enable customers to fit them into often restricted spaces and small footprints. Modifications to existing conveyor lines are kept to an absolute minimum as frameworks simply straddle existing conveyor lines.

- Maintenance accessibility - all of the Air Knife System components are housed within the framework, making maintenance and running adjustments easy
- These systems need not be fixed and can be easily re-sited if required

### Starter Boxes

Custom built electrical starter boxes are offered.



Example: ACI System Solution for drying totes/crates showing various options available through ACI

# Air Knife Systems

## System Solutions Accessories

### Modular Ducting System

This is available in both stainless steel or galvanised mild steel. This uses a flange and clamp arrangement for connection of mating sections. This method of ducting allows for ease of installation and readjustment without having to cut, rivet and seal joints. Available in diameters of 75mm to 300mm, it is easy to install and maintain.

Ducting between the Blower and Air Knife configuration needs careful consideration as significant losses in pressure and performance can easily occur if the following simple rules are not followed.

A few useful pointers are as follows:

**Distance** - the distance between the blower and the method of air delivery should be kept to a minimum. Ducting runs should be kept ideally below 6 metres.

**Bends** - the number of bends should be kept to a minimum. Bends should be generous and sweeping.

**Rigid Duct Work** - this should be used wherever possible. Flexible ducting runs should be kept to a minimum.

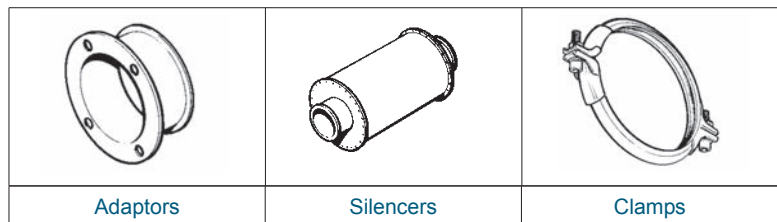
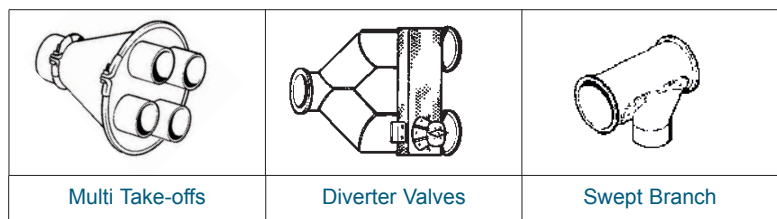
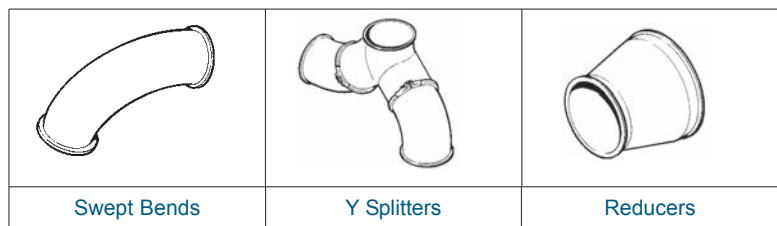
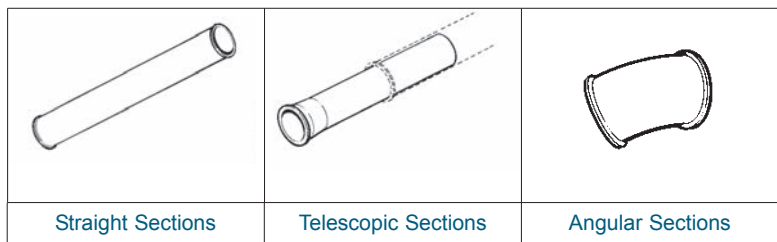
**Ducting Diameter** - this should either be the same as or larger than that of the blower discharge. Sharp changes in cross section of the ducting should also be avoided.

ACI's Sales Team will give their expert advice on all ducting layouts.

### Flexible Hose

ACI keeps a variety of diameters and types of flexible hose in-stock. They are available in minimum lengths of 100mm and maximum lengths of 10 metres.

### Examples of available duct sections:



### Air Control Industries Ltd

Weycroft Avenue, Millwey Rise Industrial Estate,  
Axminster, Devon, EX13 5HU, United Kingdom  
Tel: +44(0)1297 529242 Fax: +44(0)1297 529241  
Email: [sales@aircontrolindustries.com](mailto:sales@aircontrolindustries.com)

[www.aircontrolindustries.com](http://www.aircontrolindustries.com)