

## AIRKNIVE SYSTEMS - RECIPROCATING NOZZLES

Where products may demand a more vigorous air movement action, and particularly where products might be vulnerable to contact or surface damage, ACI's Reciprocating Air Nozzle Systems are an ideal solution for surface drying operations.

Reciprocators employ a bank(s) of flexible nozzles that move back and forth across the conveyor whilst delivering high volumes of air at low pressure. This simple reciprocating action combined with a powerful airflow is capable of dislodging moisture and debris trapped in the most awkward of places, even blind holes.

The nozzles themselves are fabricated from material that is both flexible and hard-wearing. They are also simple to fit and adjust. In fact, the flexibility of the material allows the nozzles to be hit or deflected by travelling product without risk of damage to either the product or the reciprocating nozzles. This last feature permits air to be delivered close to the product for further enhancement of drying/cleaning functions.

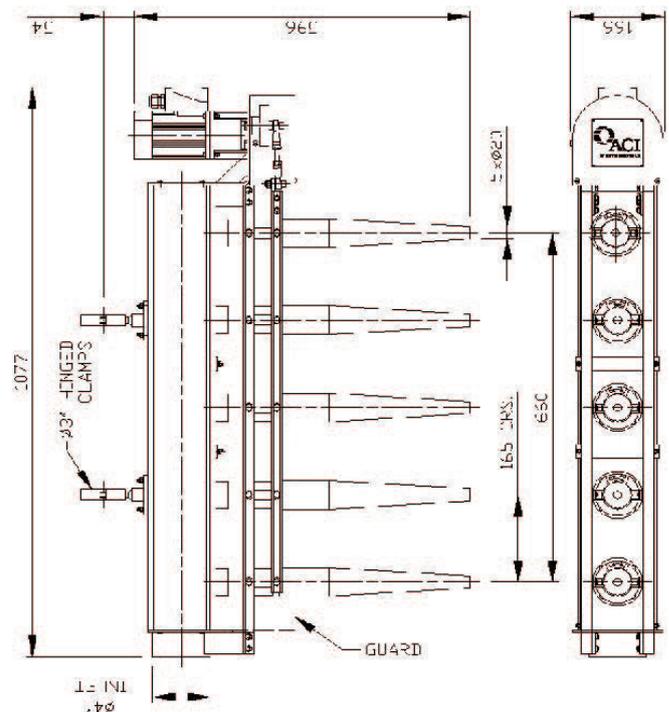


Testing ACI Reciprocator Nozzles on Truck Cabins

### Specifications

<b>Plenum chamber</b>	Aluminium as standard, stainless steel available
<b>Motor</b>	A wide selection of motors including electric and compressed air types
<b>Brackets</b>	Stainless steel as standard
<b>Nozzles</b>	Each nozzle has an orifice of 20mm dia as standard. Minimum number of 2 nozzles, maximum of 13 nozzles
<b>Mounting</b>	ACI can design and manufacture a wide variety of mounting assemblies depending on the customer application, including the support frames.
<b>Conduits</b>	As well as flexible ducting, a modular ducting system has been designed specifically for use with ACI's Drying products. Available in both stainless steel and galvanised mild steel, this system uses a flange system and clamp arrangement for connection of mating sections which allows for ease of installation and readjustment without the need to cut, rivet or seal joints.

### Outline dimensions



Typical outline drawing (5 nozzle reciprocator)

### Typical applications

- Drying totes / crates and baskets
- Drying automotive bumpers, bodies and components such as engine components, drive shafts and trim
- Drying any large, intricate components such as filing cabinet carcasses
- Drying of aerospace parts

