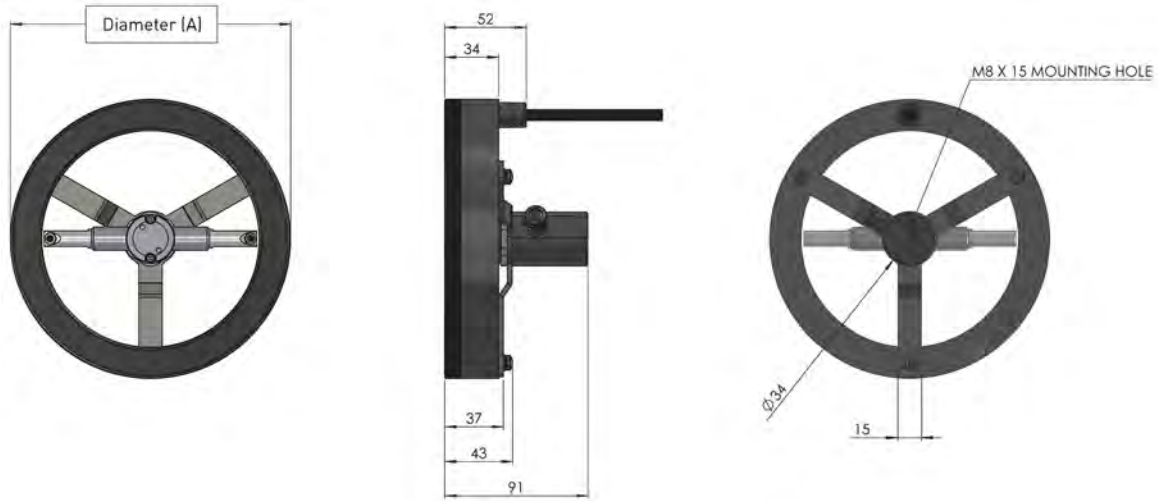


Specification

The 4900 Roto-Clean has been designed to give a new standard to electrostatic cleaning in industry. There are two sizes of Roto-Clean, with diameters of 112 and 178 mm, which can be used individually or joined together to clean wider objects.

Dimensions

Diameter (A): 112 mm or 178 mm



Roto-Cleans used in series for wider products

For mounting Roto-Clean onto a 25 mm crossrod use Mounting Kit Part 49002.

Compressed air

Air Consumption litres/minute	1 Bar	2 Bar	3.5 Bar
Roto-Clean 112mm	78	80	82
Roto-Clean 178mm	87	91	97

The air must be clean and dry. The operational pressure is from 1 Bar to 3.5 Bar maximum pressure. Typical working pressure 2 Bar.

A sensor is recommended to control the airflow so that it operates only when the material to be cleaned is present.

Air fitting: 8mm push-in type.

TARGETED STATIC ELIMINATION AND CLEANING

Power unit

The Fraser HP Power Unit can supply up to four Roto-Clean devices. It requires a 115V or 230V 50/60 Hz supply. Please see Power Unit datasheets to see the choice available, which includes remote monitoring and alarm systems.

Cable

3m of screened hi-Flex HT cable are supplied. Longer lengths can be specified at time of order. The cable is suitable for most robot applications.

Materials

Nozzles: Stainless steel with brass inserts.

Static eliminator: FR acetal, epoxy resin, anodised aluminium, FR ABS, hardened steel

Environmental

Operating conditions: 0 – 50°C; max humidity 70% rH. The rotating nozzles should not come into contact with damp or aggressive media.

Noise: < 80 dBA at 1 m lateral distance, without product.

Safety

Electrical: The static eliminator ring is shockless and safe to use in normal industrial applications. Emitter pin current is < 100 µA. The HP power Unit output is current limited to 5 mA. For ATEX applications please contact Fraser.

Mechanical: The rotating energy of the rotating nozzle is low. While contact with the moving nozzle could be painful, no danger of injury exists.

Reliability

The rotating nozzles are air powered by a patented centrifugal control and are designed to run freely – contact with other objects could damage them.

The bearings of the rotating nozzles are spaced apart from the active compressed air by internal seals. The constructive alignment and a corresponding compressed air supply routing provide effective protection from lubricant leakage from inside the bearing or penetration of contamination.

Further sealing measures of the bearing chamber prevent loss of lubricant due to leakage.

Operating above the maximum pressure of 3.5 Bar could cause overpressure damage.

Visit www.fraser-antistatic.com for datasheets and specifications or, for more information, call Fraser on **+44 (0)1398 331114**.