

Ref: 2009.102.F

27<sup>th</sup> October 2009

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Ref: (2009.102.F1)



**Caption:**

*Cross Phoenix Type P filter (top right) on a machine shop coolant recycling plant at a large engineering factory.*

Ref: (2009.102.F2)



**Caption:**

*Close-up of the Cross Phoenix Type P filter, illustrating the compact dimensions and all-stainless steel construction.*

## Rugged pneumatic backwashing filter for heavy duty industrial applications

New to the UK market, the Phoenix Type P in-line automatic backwashing water filter from Cross Manufacturing introduces a pneumatically actuated filter to complement the existing electrically actuated versions. The Phoenix Type P is designed with rugged simplicity to suit arduous industrial duties in hazardous, hot and wet environments.

Combining the well established benefits of Cross “zero gravity” filtration technology with the simplicity of pneumatic operation, the Phoenix Type P is supplied as standard with a PLC-based programmable control system mounted within a watertight metal enclosure. The mains electrical supply voltage for the control system can be specified for D.C. or single-phase A.C. voltages whilst the actuators operate from a standard 6 bar factory air supply.

Automatic backwashing is programmed with an adjustable pressure differential switch and achieved with the minimum consumption of backwash water. Backwashing is performed without interruption to filtration activity, eliminating any requirement for redundant bypass filter equipment.

Central to the proven Cross filtration technology is a rugged, all stainless steel “zero-gravity” coil with raised nodes on the surface which define a precise filter rating. Selectable in seven ratings between 20 and 400 microns, the coil is designed to open slightly and evenly along its total length during backwashing, ensuring that the build-up of particles is completely washed away. Six “zero gravity” coils are fitted in the Phoenix Type P, in a specially designed housing that creates a cyclonic flow path for the water passing through, helping to keep suspended solids away from the surface of the coils and therefore extending the length of time before backwashing is triggered.

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The Phoenix Type P is manufactured with all-stainless steel wetted parts and has a maximum flow rating of up to 18 litres/second at pressures up to 10 bar.

The Phoenix filter has a proven track record of success with applications including machine shop coolants, parts washers, steel mills, building services and effluent treatment.

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**END**

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