factair

PS150D Pipe Scouring Unit

Factair pioneered air-scouring of water mains and the PS150D is the latest generation fast towing unit with all components enclosed by a weather-proof, noise attenuated enclosure.

The PS150D uses an oil-lubricated rotary-screw compressor with an integral air aftercooler to produce compressed air, which after filtration meets the requirements of BS EN12021. The unit comes complete with pressure regulator, gauges, and filter condition indicator, valves, outlet hose and hydrant connector. Also, the PS150D has been designed for easy access to all areas that need regular service.

To ensure the minimum disruption within the neighbourhood the PS150D is acoustically shielded and fully complies with the EC Directive 2000/14/EC for noise emission in the environment by equipment for use outdoors.

For further information on the principle of air scouring please refer to Factair's datasheet "Cleaning of water mains by means of air scouring" on the reverse side of this datasheet.

Length incl. Towbar	Width	Height	Sound Power Level	Fuel Consumption	Weight	Towing Hitch
4025mm	1550mm	1335mm	≤98 dB(A)	8.5 l/hr full load 4.4 l/hr off load 66 litre fuel tank	1000kgs	Ring or Ball
Diesel Engine			Kubota, 4 cylinder water cooled V2203, 2.2 litre			
Capacity (FAD) at 7 bar			4.2 m^3/min (148 cfm)			

Factair Ltd. 49 Boss Hall Road, Ipswich Suffolk IP1 5BN
Tel Sales: +44 (0) 1473 746400 Fax: +44 (0) 1473 747123 Email: enquiries@factair.co.uk **www.factair.co.uk**

factair

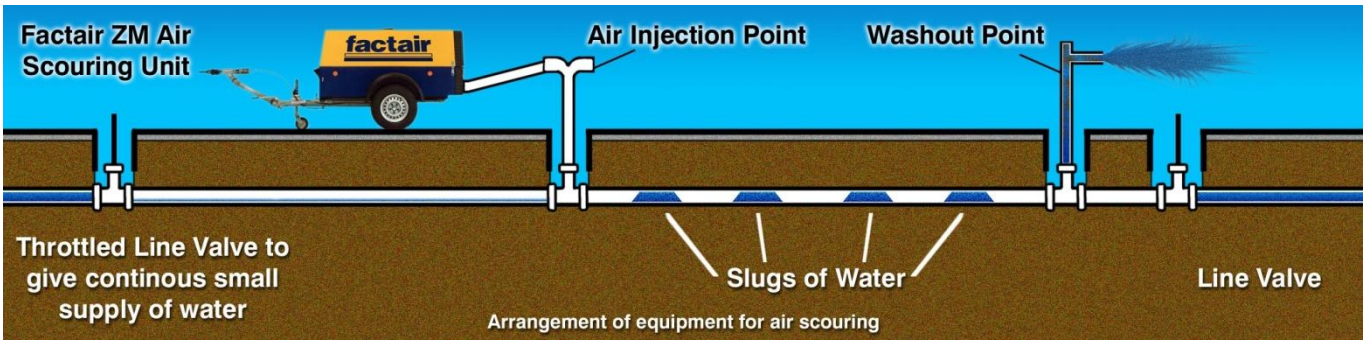
PS150D Pipe Scouring Unit

Cleaning of Water Mains by means of

Air Scouring

Air Scouring of water mains is an extremely effective 'non-aggressive' method of cleaning water mains. From 75mm diameter to 300mm diameter, with typical cleaning lengths ranging from 100 to 1000 metres. Factair, in conjunction with the Water Research Council pioneered the process in the UK.

Air scouring works by using filtered 'oil free' compressed air, injected into the mains via a hydrant to propel a small volume of water at high velocity. Air and water are ejected together with any suspended solids from a hydrant at the end of the length being cleaned. This system has the effect of achieving water velocities high enough to carry loose deposits in the water stream.



Provided with a continuous supply of compressed air and water in the right proportions, discrete slugs of water are formed in the main and are driven along at high velocity by the compressed air. It is the slug flow system that enables solids to remain suspended in the water over the long distances being cleaned.

Benefits of Air Scouring

- More effective at removing loose deposits than flushing
- Mains up to 300mm in diameter can be cleaned
- Long lengths (up to 1000m) can be cleaned in one go
- Mains excavation is not required
- A mixture of air and water penetrates and dislodges material which is unreachable by flushing, proving effective in the removal of animals
- Shorter purge lengths and higher velocities can be successfully used in the removal of bacteriological slimes
- More cost effective than swabbing.

For air scouring to work efficiently in clean water mains it is essential that the compressed air is cooled and filtered to the highest standard prior to use. Factair has a range of purpose-built air scouring units, for sale or hire, including 125 and 250 CFM trolley units for use in conjunction with existing compressors and 148 CFM PS150D totally self-contained units, with integral air compressor. All units incorporate cooling and filtration control valves, pressure gauges and necessary hoses to enable full connection and use of the compressed air system for air scouring.

Further data sheets on Factair's equipment are available on request. For comprehensive technical details of 'Air Scouring' please refer to the Water Research Councils publication "Water Mains Cleaning Handbook" Ref: UM1429

Factair Ltd. 49 Boss Hall Road, Ipswich Suffolk IP1 5BN
Tel Sales: +44 (0) 1473 746400 Fax: +44 (0) 1473 747123 Email: enquiries@factair.co.uk **www.factair.co.uk**