

Application Data

Heat exchanger cleaning



Benefits of Water Jetting

- Environmentally friendly
- Faster than any other cleaning method
- More thorough than any other cleaning method
- No mechanical damage to the tubes
- Leaves a polished finish
- Only uses water, no chemicals to dispose of
- Heat exchangers can be cleaned in-situ or taken to a cleaning bay for shutdown maintenance
- Fully automated systems available for maximum safety & productivity
- Flexible lances can negotiate a U bend
- The pump is versatile & can be used for other cleaning applications in the plant e.g. pipe cleaning, tank cleaning etc.

Typical Pumps & Performances		
Pump	Performance	Application
HPS1000	40lpm at 1000bar (10.6gpm at 14,500psi)	Manual 1 lance (flex lance or 1-LTC)
HPS2200	68lpm at 1000bar (18gpm at 14,500psi)	Manual 2 lance (flex lance or 1-LTC)
HPS3000	120lpm at 1000bar (31.6gpm at 14,500psi)	Automatic 3 flexible lance system
HPS5000	200lpm at 1000bar (52.7gpm at 14,500psi)	Automatic 5 lance bundle blaster or external cleaner
Ultrabar 24	23lpm at 2750bar (6gpm at 40,000psi)	1 or 2 lance system for very tough deposits

Heat exchangers used in industry are prone to scaling & blocking which drastically reduces heat transfer & efficiency of the process. High pressure water jetting is the fastest & most efficient method of cleaning internally & externally. At 1000bar the water jet removes scale & blockages with ease, leaving a polished finished on the inside wall of the tube thus slowing down future scale build up.

Each lance will pass 30-40lpm at

1000bar. The smaller pumps are generally used with a single lance & foot operated control valve to control pressure on/off. The lance could be hand held but Hughes Pumps recommend a 1-LTC which takes the lance out of the operators hands for increased safety. As pump size/ flow increase as can the quantity of lances, up to the 5 lance bundle blaster for maximum productivity, automation & safety.



HPS1000ECT unit, 40lpm at 1000bar



40lpm at 1000bar with a 1-LTC



200lpm at 1000bar with a 5 lance bundle blaster



HPS5000DC unit, 200lpm at 1000bar

This information is intended to be a guide only. The required pump size & performance can vary depending on many factors including rate of work required, hardness of deposit or work piece, operator skill, site access etc.

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