



## Alfa Laval CIP 200LTS

Stainless steel air/steam powered Cleaning in Place unit for heat exchangers



A problem frequently encountered in almost all applications is the build-up of deposits on heat transfer surfaces. Alfa Laval supplies a wide range of cleaning agents suitable for removing most of these troublesome deposits and restoring performance to optimal levels. The time-consuming work of opening plate heat exchangers can thus often be avoided by using an Alfa Laval Cleaning in Place (CIP) unit. These are available in a wide range of standard sizes that include reversible flow capability. Alfa Laval CIP units can be used for all types of heat exchangers, including spiral heat exchangers, shell-and-tube heat exchangers and gasketed, welded and brazed plate heat exchangers.

### Concept

Alfa Laval CIP units are simplicity itself:

- Connect the Alfa Laval CIP unit to the heat exchanger
- Mix the cleaning agent with water in the tank and heat it up
- Circulate the cleaning solution a few of hours
- Drain and rinse
- Disconnect the CIP unit
- The heat exchanger is back to full performance capacity

Alfa Laval CIP units are a cost-effective way to achieve better performance, and the cleaning agents used are, of course, environmentally friendly.

In addition to boosting the performance of all kinds of heat exchangers, Alfa Laval cleaning agents extend the operating time between cleaning cycles as well as prolonging the overall lifetime of the heat exchangers, without damaging the plates or gaskets.

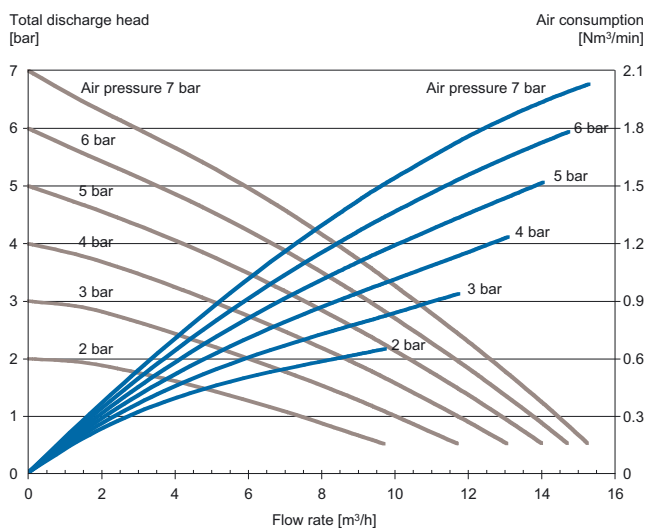
### Features and benefits

- Air powered pump and steam heater eliminates any electric connection.
- Connected directly to inlet and outlet. This avoids any need to open the heat exchanger, which in turn minimizes downtime and prolongs the working life of the gasket.
- Wetted parts in the operating unit, as well as the pump and valves, are made of AISI 304 or AISI 316 stainless steel to ensure maximum working life. Pump diaphragms in EPDM.
- Rapid cleaning at optimal temperatures, due to efficient steam injection heating.
- Valve arrangement for reversible flow direction. This makes it possible to remove the solid particles rapidly, and is easy to operate without the need to rearrange the connection hoses.

## Technical specifications

### Alfa Laval CIP 200LTS

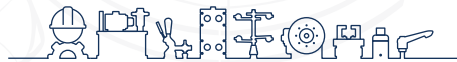
Circulation pump	Air operated diaphragm pump
Pump capacity max. at 2 bar head and 5 bar air pressure	10.5 m <sup>3</sup> /h
Heating capacity steam	38 kW
Max. operating temperature	85°C (185°F)
Volume	200 litres (53 US gallons)
Modules	1 pump + 1 tank
Weight empty modules, pump + tank	45+90 kg = 135 kg
Size pump (H x W x L)	1345 x 475 x 775 mm
Size tank (H x W x L)	1345 x 475 x 1035 mm
Number of hoses	4
Hose length	4 m
Hose material inside/outside	UPE/EPDM
Connection standard CIP liquids	DIN 11851/DN 40
Connection compressed air	R 3/8"
Connection steam	1/2" female
Material for wetted parts	Stainless steel AISI 304/316, SS321 in pump piston
Pump diaphragms	EPDM



Pump graph.

### Optionals

Item no	Description
96994900-03	Welding piece for CIP connection to PHE pipe <DN40
96994900-04	Welding piece for CIP connection to PHE pipe DN40–65
96995110-14	Spanner DN40 DIN union
96995110-16	Adapter DN40/BSP 1 1/2"
96995110-17	Isolation valve at PHE pipe connection DN40 butterfly valve AISI 304
96995110-18	Manometer 0–10 bar
96995110-19	Thermometer 0–200°C
96995110-20	Hose DN40, 6 m



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