



## Alfa Laval CIP 20 and Alfa Laval CIP 40

### 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.

Alfa Laval CIP units are available in a wide range of standard sizes, with optional extras that include reversible flow and explosion-proof capabilities. 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.



Alfa CIP 40



Alfa CIP 20

#### 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
- Circulate the cleaning solution a couple 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.

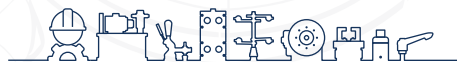
In addition to boosting the performance of all kinds of heat exchangers, Alfa Laval cleaning agents extend the operating time between cleaning cycles as well as prolonging the overall lifetime of the heat exchangers, without damaging the plates or gaskets.

#### Features & benefits

- 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.
- High-quality equipment that is CE marked.
- Valves for reversible flow direction. This makes it possible to remove the solid particles rapidly, and is easy to operate without needing to rearrange the connection hoses.

## Technical specifications

	Alfa Laval CIP 20	Alfa Laval CIP 40/50 Hz	Alfa Laval CIP 40/60 Hz
Pump	Centrifugal	Centrifugal	Centrifugal
Max. flow rate	2.4 m <sup>3</sup> /h (10.6 gpm)	2.1 m <sup>3</sup> /h (8.7 gpm)	2.1 m <sup>3</sup> /h (8.7 gpm)
At pumping head	8 m	15 m	15 m
Motor power	170 W	400 W	400 W
Voltage	230 V/1 phase/50 Hz	230 V/1 phase/50 Hz	110 V/1 phase/60 Hz
Max. operating temp	60°C (140°F)	60°C (140°F)	60°C (140°F)
Volume	20 litres (5.3 US gallons)	40 litres (10.6 US gallons)	40 litres (10.6 US gallons)
Weight	8 kg	15 kg	15 kg
Length	500 mm	730 mm	730 mm
Width	250 mm	320 mm	320 mm
Height	350 mm	530 mm	530 mm
Number of hoses	2	2	2
Hose length	2.6 m	2.6 m	2.6 m
Hose material	PVC reinforced	PVC reinforced	PVC reinforced
Connection	ISO 228 ¾"	ISO 228 ¾"	ISO 228 ¾"
Pump wetted parts	PP (Polypropylene)	PP (Polypropylene)	PP (Polypropylene)
Pump gaskets	NBR	NBR	NBR
Hose connection gaskets	EPDM	EPDM	EPDM
Material for wetted parts	PE (Polyethylene)	PE (Polyethylene)	PE (Polyethylene)
Protection class	IP54	IP54	IP54
Eexd (explosion-proof)	No	No	No
Art. no.	32840005-01	32840000-01	32840436-01



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