



Alfa Laval CIP 1800L and CIP 2800L

Stainless steel Cleaning in Place units 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 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 and 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.
- 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.
- Rapid cleaning at optimal temperatures, due to built-in electric heaters.
- 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 1800L	Alfa Laval CIP 2800L
Circulation pump	Centrifugal sanitary	Centrifugal sanitary
Pump capacity max. at 30 m head	40 m ³ /h	40 m ³ /h
Voltage	380–420 V/3-phase/50 Hz 440–480 V/3-phase/60 Hz	380–420 V/3-phase/50 Hz 440–480 V/3-phase/60 Hz
Pump motor size (50/60 Hz)	5.5/5.5 kW	5.5/5.5 kW
Total heating power	24 kW alt. 48 kW	48 kW
Heating time in tank, approx.	24 kW/4 h alt. 48 kW/2 h	48 kW/3.5 h
Max. operating temperature	85°C (185°F)	85°C (185°F)
Volume	1800 litres (477 US gallons)	2800 liters (742 US gallons)
Modules	1 pump/tank + 1 tank	1 pump/tank + 2 tanks
Weight empty module, pump + tank(s)	300+150 kg = 450 kg	300+150+150 kg = 600 kg
Size module incl. tank (H x W x L)	1735 x 2160 x 1260 mm	1735 x 2160 x 1260 mm
Size per each additional tank module (H x W x L)	1483 x 960 x 960 mm	1483 x 960 x 960 mm
Number of hoses	4	6
Hose length	4 m	4 m
Hose material inside/outside	UPE/EPDM	UPE/EPDM
Connection standard	DIN 11851/DN 65	DIN 11851/DN 65
Material for wetted parts	Stainless steel AISI 304/316	Stainless steel AISI 304/316
Pump gaskets	EPDM	EPDM
Pump seal	C/SiC	C/SiC
Hose connection gaskets	EPDM	EPDM
Eexd (explosion-proof)	On request	On request

Optionals

Item no	
96994900-05	Welding piece for CIP connection to PHE pipe >=DN65
96995310-14	Spanner DN 65 DIN union
96995310-16	Adapter DN 65/BSP 2 1/2"
96995310-17	Isolation valve at PHE pipe connection DN65 butterfly valve AISI 304
96995310-18	Manometer 0–10 bar
96995310-19	Thermometer 0–200°C
96995310-20	Hose DN65, 6 m

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Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com