



Alfa Laval CIP unit

Cleaning In Place unit for Alfa Laval freshwater generators

Introduction

A freshwater generator in operation will over time generate scale on the heat transfer surface which decreases the performance. The scale deposit consists mainly of carbonates, which can be removed by circulation an acid solution over the heat transfer surface. This CIP unit helps to handle this cleaning process in a safe and efficient way to re-establish normal/design distillate production.

Application

- Ships
- Rigs
- Onshore

Benefits

- Easy remove scale and deposits
- Extend the operating time
- Optimal cleaning process

Working principle

The inhibited Sulphamic acid or Citric acid solution is prepared in the tank. Then the CIP unit is connected to the freshwater generator through quick couplings. Then the acid solution is circulated over the freshwater generators heat transfer surface by means of the centrifugal pump. Where the acid neutralises while it dissolves the scale.

Standard design

The CIP unit is design for acid cleaning of the heat transfer surfaces on Alfa Laval AQUA and ORCA freshwater generators. The trolley consist of mixing tank, hand mixer, electrical circulation pump, on/off switch, valves, hoses and quick couplings.

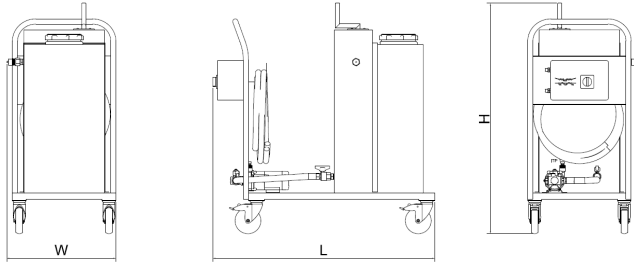
The unit is delivered complete with all necessary hoses, valves and pipe isolation plates.



Technical data

Dimensions

Length(L)	mm	1085
	in	42.7
Width (W)	mm	527
	in	20.8
Height (H)	mm	1070
	in	42.1
Weight (empty)	kg	37
	lbs	82



Acid data

Type of acid	Inhibited Sulphamic acid or Citric acid
Concentration	7 – 10%

Type of acid	Alfa Laval Part No.
Alfa P-Scale 5 kg (5 bags) – Inhibited Sulphamic acid	3284000602
Alpacon Descalant II (25 L) – Inhibited Citric acid	189990018

Unit data

		230V CIP	110V CIP
Pump		Centrifugal	Centrifugal
Design flow rate	l / min	13	13
	gpm	3.46	3.46
At pumping head	m	3,7	3,7
	in	98.4	98.4
Supply Voltage	V / 1 phase	220/230	110
Max. Operating temperature	°C	55	55
	°F	131	131
Number of hoses		2	2
Hose length	m	2,5	2,5
	in	98.43	98.43
Hose material		Armored PVC	Armored PVC
Connections		3/4" BSP	3/4" BSP
Pump wetted parts		GFRPP & PTFE	GFRPP & PTFE
Pump gaskets		EPDM & FKM	EPDM & FKM
Tank material		MDPE	MDPE
Tank volume	liters	100	100
	gallons	26.4	26.4
Alfa Laval Part No.		985 23461-80	985 23461-81

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