



CLEAN OIL
BRIGHT IDEAS

Desorber D10

Water Removal from Oil

Applications: Thrusters, Stern Tubes, Hydraulics, Synthetic Fluids

CJC™ Product Sheet

APPLICATION

CJC™ Desorber D10 - a very compact and most efficient desorber - is used for **removal of free, dissolved and emulsified water from oils in**

Marine Applications :

- Thrusters
- Stern tubes
- Hydraulic applications
- Synthetic fluids
- Compact gears with smaller oil volumes

EAL's / Biodegradable oils:

- Esters
- PAG'S
- PAO'S
- emulsified oils

CUSTOMER BENEFITS

The CJC™ Desorbers' ability of water removal is unaffected by viscosity and additive package. The Desorber treats mineral oils as well as synthetic fluids, and is even able to break stable emulsions. The Desorber range is able to remove larger amounts of water, and is able to maintain the water content within systems to very low levels.

- Removes water, even from emulsified oil
- Extended lifetime of both oil and components by a factor 3-4
- Prevents uncontrolled shut downs and reduces maintenance costs
- Compact in size - fits through most hatches
- Compatible with EAL approved fluids that includes Esthers or Glycols

CHALLENGE

Water in oil leads to change in viscosity, reduced filter ability, reduced lubricity, formation of rust and bacterial growth and increased degradation of the oil - all factors that lead to reduced lifetime of both system components and the oil.

FUNCTION

The desorption process is based on the principle that heated air can effectively hold large quantities of water. In the Desorber the oil, preheated to 60°C, is met by a counter flow of cold, dry air. The air is heated very quickly by the hot oil and absorbs any water present in the oil, until the air is saturated. The warm, moist air is then chilled to condense the water out using a drain pipe. The unit is made of stainless steel. Furthermore, the unit deliver external signals, such as: a running alarm and a common alarm.

OPTIONAL

Available with change-over valves. Our desorbers can be used upon multiple systems.



The CJC™ Desorber D10

TECHNICAL DATA

Voltage	V	1 x 208	1 x 230		3 x 400	3 x 440-480
Frequency	Hz	60	50	60	50	60
Height	mm/inc	1,000 / 39.4				
Length	mm/inc	570 / 22.4				
Width	mm/inc	570 / 22.4				
Weight	kg/lb	125 / 275.6				
Power consump.	kW	2.6	2.6		3.0	
Current	A	12.5	11.3		4.3	3.9
Flow inlet	L/gal/h	55/14.5	45/11.9	55/14.5	45/11.9	55/14.5
Flow outlet	L/gal/h	75/19.5	60/15.9	75/19.5	60/15.9	75/19.5

INLET PRESSURE, MAX

Pump type	0.5 bar	PV
	3.5 bar	PVM



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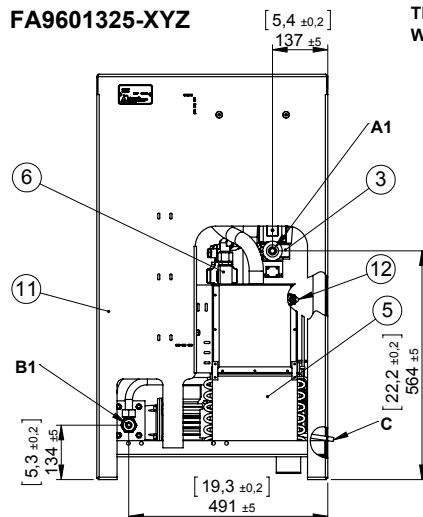
Desorber D10

Water Removal from Oil

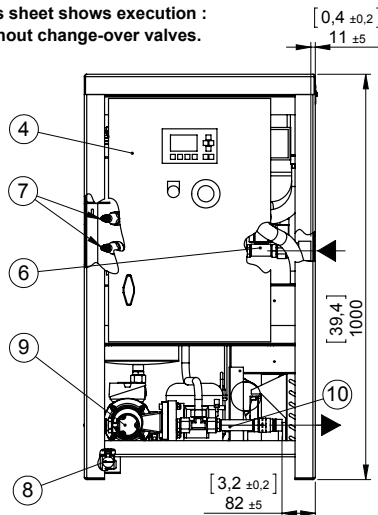
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CJC™ Product Sheet

FA9601325-XYZ



This sheet shows execution :
Without change-over valves.



X	Execution	Connections
1	Without change-over valves	A1 & B1
2	With change-over valves	A2+3 & B2+3

Y	Voltage - Freq.
1	3x380-420V - 50Hz
2	3x440-480V - 60Hz
3	1x230V - 60Hz
4	1x230V - 50Hz
5	1x208V - 60Hz

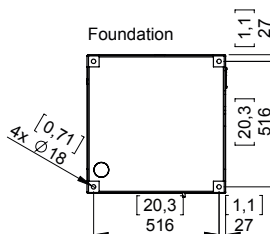
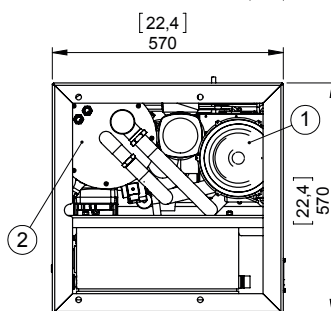
Z	Pump type	Max inlet press.
1	PV	0,5 bar
2	PVM	3,5 bar

Design temp. 60°C/140°F
Ambient temp. 45°C/113°F
Weight 125 kg/275 lbs

A1 = 3/4" Quick release coupling, female, oil inlet
B1 = 3/4" Quick release coupling, male, oil outlet
C = Ø6 [0,24] internal, Water drain

P&I Diagram: 7000753

Measurements in mm and [inches].



Optional

Oil connection to
Desorber by
interconnected
change over valves

Optional oil connection to
desorber by interconnected
change over valves.

