



**CLEAN OIL
BRIGHT IDEAS**

Marine Diesel Purifier

for diesel & gas oil on small & medium consumption engines

CJC™ Product Sheet

APPLICATION

The CJC™ Marine Diesel Purifier is a cost effective and efficient alternative for diesel fuel cleaning. Installed between the bunker tank and the day tank the CJC™ Diesel Purifier ensures the day tank is always full of clean and dry diesel.

BENEFITS

The CJC™ Marine Diesel Purifier is a reputed solution for obtaining high quality diesel and gas oil on small and medium consumption engines. With the introduction of the new CJC™ Separator Element PTU3, we can deliver even higher flow rates with the same high efficiency for both water and particle removal. The requirements for cleanliness as required by injection equipment manufacturers are tightened with the instructions of the HP injection systems. With the CJC™ Marine Diesel Purifier installed, these requirements are met with lower operational costs and reduced maintenance cost compared to other purifying equipment. Furthermore, sludge production and related costs will be eliminated.

WHY

- High quality diesel, clean and dry
- Reduced wear on injection equipment and feed pumps
- Lower emissions
- Simple operation
- Easy maintenance
- Reduced power consumption
- Easy installation
- Small footprint

PAYOFF

Whether for retrofit or newbuilding, the CJC™ Marine Diesel Purifier will have earned itself within the first year of operation, compared to other means of cleaning the diesel.

If installed on newbuildings, the savings on related installation costs compared to other means of cleaning the diesel is substantial.

The CJC™ Marine Diesel Purifier is uncomplicated to maintain, so vessel crew will not only benefit from operating the unit without much maintenance, also the vessel owner will experience reduced operational costs for maintaining diesel clean and dry.

HOW

The CJC™ Marine Diesel Purifier can deliver 1,700-5,100 l/h of clean, dry diesel fuel, enabling operation of up to 22,500 kW engines. With a filtration rating of 3/0,8 micron and a single pass water reduction of 98% or higher, the CJC™ Filter Inserts and the new CJC™ Separator Element PTU3 reduce the wear on the pumps and nozzles. The simple design means easy maintenance and uncomplicated operation without sludge production. Being, in principle, an off-line solution, the quality of diesel delivered to the daytank is unparalleled.

OPTIONS

Preheater, separate pump skid, control cabinet mounted on filter, drain tank.

The CJC™ Marine Diesel Purifier is available in multiple sizes for the individual purpose with 1-3 separator elements and 2-12 filter inserts.



*The CJC™ Marine Diesel Purifier
27/54, 3 stay version*

	Dim.	CJC™ Marine Diesel Purifier	
		From	To
Pump flow/hour (std.)	ltr/gal	1700/549	5100/1347
Inverter operation		Down to approx. 20% of std. flow	
Power consumption, ave.	kW	0.25 - 0.95	
Pump type		screw spindle	
Pump inlet pressure, max	bar/psi	2.0 / 29	
Pressure control		pressure switch & internal by-pass in pump	
Pressure drop, max	bar/psi	1.8 / 26	
Design pressure, filter	bar/psi	4 / 58	
Filter Inserts, 27/27	pcs.	2-12	
Separator Element, PTU3	pcs.	1-3	
Weight, net	kg/lb	140/309	226/498
Weight, operating, wet & w/o control box	kg/lb	198/437	373/822
Weight, control box	kg/lb	30/66	
Temp. oil, max *)	°C/°F	60/140	
Temp. ambient, max	°C/°F	45/113	
Water discharger		Automatic	
CAPABILITIES			
Dirt holding capacity approx.	ltr/gal	9/2.4	54/14.4



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OPERATIONAL FEATURES

- Compact design
- All steel design
- Skid type unit/ drip pan
- Logic control unit
- LCD display
- Frequency controlled pump
- Flow matches consumption*)
- Screw type pump
- LSF pump (low sulphur fuel)
- Individual separator element drain
- Detachable pump and bracket*)
- Separate control cabinet*)
or integrated control cabinet
- Separate pre-heater unit*)
- Tank mounted optional*)
- Fixed inlet/outlet connection,
- Preheater unit matches connections
- Remote start/stop
- Inlet/outlet pressure
- Inlet/outlet shut off valves
- Water discharge counter
- Step file drawings
- Centre of gravity data

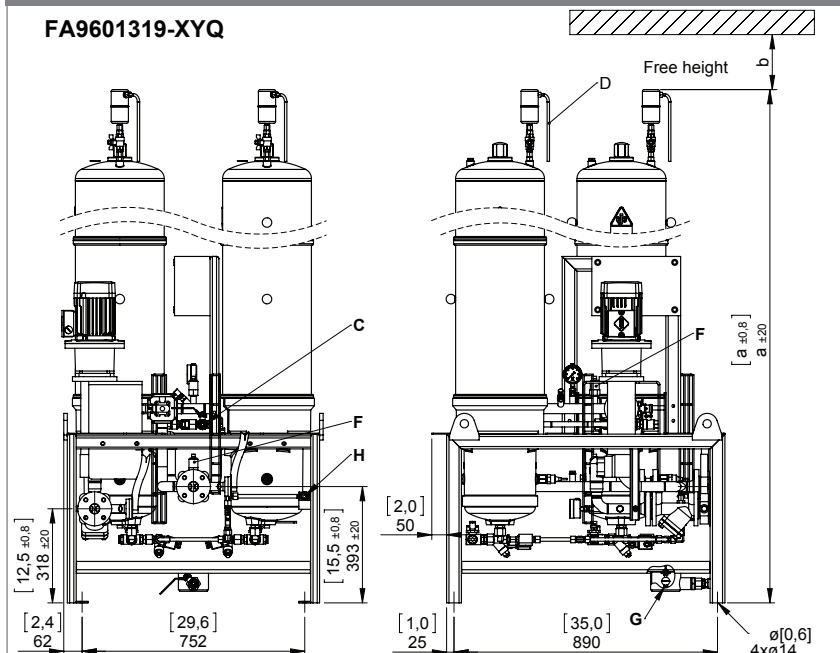
*) optional features,
to be stated upon ordering

SAFETY FEATURES

- Integrated bypass enables emergency operation
- Filter insert change during emergency operation
- Leak detection
- Alarm for excessive water discharge
- Alarm for leaking water discharge valve
- Remote stop/ESD possible

DIMENSIONS

FA9601319-XYQ

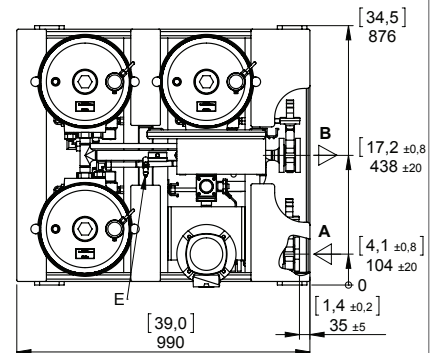


Design pressure 4 bar/60 psi
Design temp. 60° C/140° F

A = DN25, oil inlet
B = DN25, oil outlet
C = Drain valve
D = 1/4" BSP Autovent.
E = Sampling point
F = Pressure transmitter
G = Leak detection
H = Water outlet

Weight:
Filter (X) kg/ lbs
Control box (Q) kg/ lbs
Drip pan & misc. 135 kg/297 lbs
Total kg/ lbs

Measurements in mm and [inches]
P&I Diagram No. 7000482



INSTALLATION PRINCIPLE

Diesel Engines

