



OIL MAINTENANCE

PTU1 27/54-108 P

CJC™ Off-line FilterSeparator - D I E S E L

CJC™ Product Sheet

APPLICATION

The **PTU1 27/- series of CJC™ FilterSeparators** are used for fine filtration and water separation on diesel oils with a specific weight lower than that of water.

FUNCTION

The filter pump draws oil, e.g. from the settling/bunker tank and presses it through the filter insert. From the centre of the insert the oil flows down into the filter base where water droplets - if any - adhere to the coalescer element, forming larger drops that will settle in the bottom of the filter base. From the top of the filter base the oil will flow to the service tank or back to the settling/bunker tank.

On the PTU with automatic water discharge, separated water is drained automatically. The discharge function can be monitored on the unit control box.

The PTU models are also available with manual water discharge.

The pressure drop over the filter - and consequently the contaminant absorption of the filter insert - is monitored on the pressure gauge on the filter top.

In addition the PTU models with automatic water discharge are equipped with an electric pressure guard including automatic malfunction shut-down.

The filter suction pipe should be connected to the bottom of the settling/bunker tank, above the tank drain tap. The filter outlet should lead to the service tank.

An overflow line from the top of the service tank back to the settling tank should be applied in order to secure that surplus oil flows back to the settling/bunker tank.

THE FILTER PUMP

The filter pump is a CJC gear pump. The electric motor can be supplied for all standard AC and DC voltages.

FILTER INSERT

The CJC™ FilterInserts consist of several discs bonded together. The material is either cellulose or cotton linters depending on the fluid to be filtered.

OPTIONS

- Preheater
- Tank
- Drip pan
- Control box

FILTRATION ABILITY

All CJC™ FilterInserts have a **filtration degree of 3 µm** (micron) absolute, i.e. 98.7% of all solid particles > 3 µm and approximately 50% of all particles > 0.8 µm will be retained in one pass. The depth of the CJC™ off-line Filter Inserts creates a highly efficient **oxidation adsorption**.

Preheating the oil before filter pass may be necessary to prevent segregation of paraffin, but only with blended fuels.



The CJC™ FilterSeparator
PTU1 27/54 P-E2PW

TECHNICAL DATA

Model PTU1:		27/54	27/81	27/108	P/MZ-E2PW
Pump flow, std. / per hour	ltr/gal	150 - 1260 / 40 - 333			-
Pump type		P / MZ	P / MZ	P / MZ	P / MZ
FilterInserts 27/27, std.: for diesel oil	qty	2	3	4	-
Power consumption, aver.	kW	0.25-0.55	0.25-0.55	0.25-0.55	0.25-0.55
Max. pressure drop	bar/psi	2.0/29	2.0/29	2.0/29	-
Max. fluid temp. *)	°C/°F	60/140	60/140	60/140	-
Dirt holding capacity, appr.	ltr/gal	9/2.4	13/3.4	17/4.5	-
Dry weight	kg/lb	113/249	118/260	134/295	+ 20/44
Operating weight, wet	kg/lb	140/309	165/364	190/419	+ 20/44
Design pressure	bar/psi	4.0/58	4.0/58	4.0/58	-
Max. ambient temp.	°C/°F	45/113	45/113	45/113	-
Water discharge		Manual	Manual	Manual	Automatic
Pressure control		No	No	No	Yes

*) The standard filters are designed for a max. temp. of 60°C / 140°F. Other conditions, please contact us.

APPLICABLE FILTER INSERTS

Type	Application for
F:	Low flow.
BLAT:	High flow.



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COMPONENTS	
Item	Part
1	Pump
2	Control box
3	Filter insert
4	O-ring
5	Stay bolt
6	Spring
7	Spring guide
8	Nut for spring
9	Pressure gauge
10	Top nut
11	Vent screw
12	Filter housing
13	Cover
14	Filter base
15	Coalescer element
16	Water discharger, automatic
17	Floater
18	Solenoid valve
19	Plug
20	Water discharger, manual
A	ø18, Oil inlet
B	ø18, Oil outlet
C	1/4" BSP, Drain
D	1/4" BSP, Vent
F	1/4" BSP, Water outlet

