

PTU1 27/54-108

CJC® Filter Separator - DIESEL

APPLICATION

The PTU1 27/- series of CJC® Filter Separators are used on light distillate fuels e.g. diesel, gas oil, MGO and EN 590. The PTU1 27/54-108 is ideal for separation of water, removal of particles and degradation products.

FUNCTION

The filter pump draws oil 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 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.

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.

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 oil filter is monitored on the pressure gauge, which indicates the saturation of the filter insert.

In addition the PTU models with automatic water discharge are equipped with an electric pressure switch including automatic malfunction shutdown.

THE FILTER PUMP

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

FILTER INSERT

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

FILTRATION ABILITY

- **Water Removal by Separation**

The CJC® Filter Separator removes water from oil to very low levels. The efficiency of water removal depends on the oil type and temperature.

- **Particle Removal**

All CJC® Filter Inserts have the following filtration degree:

- **3 µm abs.:** 98.7% of all solid particles >3 µm

- **0.8 µm nom:** 50% of all solid particles >0.8 µm are retained in each pass.

The dirt holding capacity is 8-16 litres of evenly distributed solids.

- **Degradation Products**

Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 8-16 kgs of oil degradation products.

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



The CJC® Filter Separator
PTU1 27/54 P-E2PW

TECHNICAL DATA

Model		27/54	27/81	27/108	P/MZ-E2PW
Pump flow, per hour (std.)	ltr/gal	150 - 1260 / 40 - 333			-
Pump type		P / MZ			P / MZ
Pump inlet pressure, max.	bar/psi	0.5 / 7			0.5 / 7
Filter Inserts 27/27	pcs.	2	3	4	-
Power consumption, avg.	kW	0.25-0.75			0.4-1.0
Pressure drop, max.	bar/psi	1.8 / 26			-
Oil temperature, max.*)	°C/°F	60 / 140			-
Dirt holding capacity, app.	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, filter	bar/psi	4 / 58			-
Ambient temp., max.	°C/°F	40/104			-
Water discharge		Manual			Auto-matic
Pressure control		No			Yes
Article no.		FA9601366 / FA9601367 FA9601368 / FA9601369			

*) 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
FA:	Low flow
BLAT:	High flow

*) Does not permanently hold water

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INSTALLATION PRINCIPLE

