



CLEAN OIL  
BRIGHT IDEAS

# PTU2 27/27

## CJC™ Filter Separator - DIESEL

### CJC™ Product Sheet

#### APPLICATION

The CJC™ Filter Separator PTU2 27/27 Diesel is used on diesel oils with a specific weight lower than that of water. The PTU2 27/27 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 be 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 filter - and consequently the contaminant absorption of the filter insert - is monitored on the pressure gauge on the filter top.

#### THE FILTER PUMP

The filter pump is a CJC 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 liners depending on the fluid to be filtered.

#### OPTIONS

- Preheater
- Tank
- Drip pan
- Automatic water discharger
- Control box

#### 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 4 litres of evenly distributed solids.**
  - Degradation Products**  
 Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 4 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  
PTU2 27/27 PV-E2W

#### TECHNICAL DATA

Model PTU2 - DIESEL		PTU2 27/27		
		PV	P	PV/P-E2W
Pump flow, per hour (std.)	ltr/gal	45 - 200 / 12 - 53		
Pump type		PV4	P	PV / P
Pump inlet pressure, max.	bar/psi	0.5 / 7		
Filter Inserts 27/27, std.	pcs.	1	1	1
Power consumption, aver.	kW	0.18	0.25	0.25 - 0.40
Pressure drop, max.	bar/psi	1.8 / 26		1.8 / 26
Oil temperature, max. *)	°C/°F	60 / 140		60 / 140
Dirt holding capacity, appr.	ltr/gal	4 / 1.1		4 / 1.1
Dry weight	kg/lb	78 / 172		90 / 198
Operating weight, wet	kg/lb	90 / 198		102 / 224
Design pressure, filter	bar/psi	4 / 58		4 / 58
Ambient temperature, max.	°C/°F	40/104		40/104
Water discharge		Manual		Automatic

\*) 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	Sampling point
3	Drain
4	Filter housing
5	Plug
6	Foundation plan
7	Coalescer element
8	Filter base
9	Filter plate
10	Stay bolt
11	O-ring
12	Spring
13	Filter Insert
14	Spring guide
15	Nut for spring
16	Pressure gauge
17	Top nut
18	Vent screw
19	Water discharger, automatic
20	Floater
21	Solenoid valve
22	Water discharger, manual
23	Control box
A	ø18, Oil inlet
B	ø18, Oil outlet
C	3/8" BSP, Drain valve
D	1/4" BSP, Vent
E	Sampling point
F	1/2" BSP, Water outlet

