



OIL MAINTENANCE

PTU2 27/27 PV

CJC™ Off-line FilterSeparatos - H Y D R A U L I C

CJC™ Product Sheet

APPLICATION

The CJC™ FilterSeparator PTU2 27/27 Hydraulic is used for fine filtration and water separation from **hydraulic oils, turbine lube oils and gear oils** with a specific weight lower than that of water.

FUNCTION

The filter pump draws oil, e.g. from the 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 back to the tank system.

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 outlet port is placed in the filter base. The filtered fluid should be returned to the tank close to the suction pipe of the main system pump.

Note that the return point preferably should be non-pressurised. Contact us in case this is not possible.

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 cotton linters.

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**.

To achieve the most efficient water separation on high viscosity oils, **preheating the oil** before filter pass may be necessary.

Consult C.C.JENSEN A/S for further information.



The CJC™ FilterSeparator
PTU2 27/27 PV-E2W

TECHNICAL DATA

Model - HYDRAULIC:		PTU2 27/27	
		PV	PV-E2W
Pump flow, std. / per hour	ltr/gal	45-120	12-32
Pump type		PV	PV
FilterInserts 27/27, std.: for hydr. oil / turbine oil	qty	1	1
Power consumption, aver.	kW	0.18-0.25	0.18
Max. pressure drop	bar/psi	2.0 / 29	2.0 / 29
Max. fluid temp. *)	°C/°F	80 / 176	80 / 176
Dirt holding capacity	ltr/gal	4.4 / 1.2	4.4 / 1.2
Dry weight	kg/lb	60 / 132	72 / 159
Operating weight, wet	kg/lb	75 / 165	87 / 192
Design pressure	bar/psi	4 / 58	4 / 58
Max. ambient temp.	°C/°F	45 / 113	45 / 113
Water discharge		Manual	Automatic

*) Onboard ships: 60°C / 140°F.

APPLICABLE FILTER INSERTS

Type	Application for
BLAT:	Hydraulic oils, turbine lube oils and gear oils, high water content.



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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

