



OIL MAINTENANCE

PTU3 27/54-108 P

CJC™ Off-line FilterSeparator

CJC™ Product Sheet

APPLICATION

The **PTU3 27/- series of CJC™ FilterSeparator** are 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
PTU3 27/81 P-E2PW

TECHNICAL DATA

Model PTU3		27/54	27/81	27/108	P-E2PW
Pump flow, std. / per hour	ltr/gal	150 - 900 / 40 - 238			-
Pump type		P/MZ/GP/N	P/MZ/GP/N	P/MZ/GP/N	P
FilterInserts 27/27, std.: for hydr. oil/turbine lube 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	80/176	80/176	80/176	-
Dirt holding capacity, appr.	ltr/gal	8/2.1	12/3.2	16/4.2	-
Dry weight	kg/lb	150/331	170/375	190/419	+39/+86
Operating weigh, wet	kg/lb	170/375	198/436	225/496	+39/+86
Design pressure	bar/psi	4/58	4/58	4/58	-
Max. ambient temp.	°C/°F	45/113	45/113	45/113	-
Water discharge		Manual	Manual	Manual	Auto.
Pressure control		No	No	No	Yes

*) The standard filters are designed for a max. temp. of 80°C / 176°F. Other conditions, please contact us.

APPLICABLE FILTER INSERTS

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



OIL MAINTENANCE

PTU3 27/54-108 P

CJC™ Off-line FilterSeparator

CJC™ Product Sheet

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

