



CLEAN OIL
BRIGHT IDEAS

PTU3 27/54-108

CJC™ Off-line Filter Separator

CJC™ Product Sheet

APPLICATION

The PTU3 27/- series of CJC™ Filter Separator are used for hydraulic oils, turbine lube oils and gear oils with a specific weight lower than that of water. The PTU3 27/54-108 is ideal for separation of water, removal of particles and degradation products.

FUNCTION

The filter pump draws oil from the bottom of 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. Here larger drops will form and settle in the bottom of the filter base.

The filter outlet port is placed in the filter base. The filtered oil 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-pressurized. Contact us in case this is not possible.

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 switch including automatic malfunction shut-down.

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 cotton linters (cellulose).

OPTIONS

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

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.
- 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™ Filter Separator
PTU3 27/81 P-E2PW

TECHNICAL DATA

Model PTU3		27/54	27/81	27/108	P-E2PW
Pump flow, per hour (std.)	ltr/gal	150 · 900 / 40 · 238			-
Pump type		P/MZ/GP/R			P
Pump inlet pressure, max.	bar/psi	P/MZ/GP: 0.5 / 7 R: 12 / 174			0.5 / 7
Filter Inserts 27/27, std.:	pcs.	2	3	4	-
Power consumption, aver.	kW	0.25 · 0.55			0.4-1.0
Pressure drop, max.	bar/psi	1.8 / 26			-
Oil temperature, max. *)	°C / °F	80 / 176			-
Dirt holding capacity, app.	ltr/gal	8 / 2.1	12 / 3.2	16 / 4.2	-
Dry weight	kg/lb	150/331	170/375	190/419	+39/+86
Operating weight, wet	kg/lb	170/375	198/436	225/496	+39/+86
Design pressure, filter	bar/psi	4 / 58			-
Ambient temp., max.	°C / °F	40 / 104			-
Water discharge		Manual			Auto.
Pressure control		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.



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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

