



CLEAN OIL
BRIGHT IDEAS

PTU3 nx27/54-108 Multistay

CJC™ Offline Filter Separator

CJC™ Product Sheet

APPLICATION

The CJC™ Filter Separator PTU3 nx27/- Multistay are used for diesel oils, turbine lube oils, hydraulic oils and gear oils with a specific weight lower than that of water. The PTU3 nx27/54-108 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 CJC™ Separator Element PTU3. Here larger drops form and will 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 pressure drop over the filter - and consequently the contaminant absorption of the filter inserts - are monitored on the pressure gauge on the filter top.

In addition the PTU models are equipped with an electric flow switch including automatic malfunction shut-down.



The CJC™ Filter Separator
PTU3 2 x 27/108 GP

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.

CJC™ Separator Element PTU3 consists mainly of 16 spiral shaped plates made in plastic.

OPTIONS

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

FILTRATION ABILITY

- **Water Removal**
The CJC™ Filter Separator removes water from oil to very low levels. The efficiency of water removal depends on the oil type, age 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 32-48 litres of evenly distributed solids.
- **Degradation Products**
Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 32-48 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.

TECHNICAL DATA

Model PTU3 MULTISTAY		2 Stay 2 x 27/108	+ 1 Stay + 1 x 27/108
Pump flow, per hour (std.)	ltr/gal	900-1700/238-450	+400-800/+ 106-211
Pump type		P/MZ/GP/N	P/MZ/GP/N
Pump inlet pressure, max.	bar/psi	P/MZ/GP: 0.5/7 N: 8.0/116	-
Filter Inserts 27/27, std.:	pcs.	8	+4
Separator Element PTU3	pcs.	2	+1
Power consumption, aver.	kW	0.75-4.0	+0.25-1.0
Pressure drop, max.	bar/psi	1.8 / 26	-
Oil temperature, max. *)	°C/°F	80 / 176	-
Dirt holding capacity, appr.	ltr/gal	16-32/4.2-8.4	+8-16/+ 2.1-4.2
Dry weight	kg/lb	300-380/661-838	+150-190/+ 331-419
Operating weight, wet	kg/lb	320-450/704-990	+170-225/+ 375-496
Design pressure, filter	bar/psi	4 / 58	-
Ambient temperature, max.	°C/°F	40 / 104	-

*) 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
F:	Diesel oils



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COMPONENTS	
Item	Part
1	Tank
2	Drain valve
3	Separator Element PTU3
4	Filter housing
5	Aut. vent
6	Sampling point
7	Pressure gauge
8	Control box
9	Pressure switch
10	Pump
11	3-way valve, L-port
12	Water discharger, automatic
13	Shut off valve
A	DN32, Oil inlet
B	DN32, Oil outlet
C	Drain valve
D	1/4" BSP, Aut. vent
E	Sampling point
F	1/4" BSP, Water outlet
G	3/4" BSP, Drain, drip pan

