



Product Sheet

APPLICATION

The **PTU3 27/** series of the **CJC® Filter Separator** are used for **diesel oils, turbine lube oils, hydraulic 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 - enters through the **CJC® Separator Element PTU3**. 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. In order to monitor variations in water ingress into the system, the control system offers a function counting the number of water discharge sequences. In addition the PTU models are equipped with flow switch including automatic malfunction shut-down.

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.

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).

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 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

TECHNICAL DATA

| Model PTU3 | 27/54 | 27/81 | 27/108 | -E2PW |
|-----------------------------|------------------------------|----------|----------|---------|
| Pump flow, per hour (std.) | ltr/gal 150 - 900 / 40 - 238 | | | - |
| Pump type | P/MZ/GP | | | |
| Pump inlet pressure, max. | bar/psi 0.5 / 7 | | | |
| Filter Inserts 27/27, std.: | pcs. 2 | 3 | 4 | - |
| Separator Element PTU3 | pcs. 1 | | | 1 |
| 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 switch | 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 |
| F: | Diesel oils |



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