



CLEAN OIL
BRIGHT IDEAS

PTU 15/25 PV

CJC™ Off-line Filter Separator - HYDRAULIC

CJC™ Product Sheet

APPLICATION

The CJC™ Filter Separator PTU 15/25 PV Hydraulic is used for

- hydraulic oils
- lube oils
- gear oils
- turbine lube oils

The PTU 15/25 PV 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 coalescer housing where water droplets - if any - adhere to the coalescer element. Here larger drops will form and settle in the bottom of the coalescer housing.

The filter outlet port is placed in the top of the coalescer housing. 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.

THE FILTER PUMP

The filter pump is a CJC 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
- Control box
- Drip pan
- Tank

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 absolute:

98.7% of all solid particles > 3 µm

- 0.8 µm nominal:

50% of all solid particles > 0.8 µm

are retained in each pass.

The dirt holding capacity is 1.5 litres of evenly distributed solids.

• Degradation Products

Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 1 kg of oil degradation products.

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

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



The CJC™ Filter Separator
PTU 15/25 PV

TECHNICAL DATA

| Model | PTU 15/25 | |
|------------------------------|-----------|------------------|
| Pump flow, per hour (std.) | ltr/gal | 30 - 60 / 8 - 16 |
| Pump type | PV2 | |
| Pump inlet pressure, max. | bar/psi | 0.5 / 7 |
| Filter Insert 15/25, std.: | pcs. | 1 |
| Power consumption, aver. | kW | 0.18 |
| Pressure drop, max. | bar/psi | 1.8 / 26 |
| Oil temperature, max. *) | °C / °F | 80 / 176 |
| Dirt holding capacity, appr. | ltr/gal | 1.5 / 0.4 |
| Water reservoir capacity | ltr/gal | 1.25 / 0.33 |
| Dry weight | kg/lb | 37 / 82 |
| Operating weight, wet | kg/lb | 47 / 104 |
| Design pressure, filter | bar/psi | 4 / 58 |
| Ambient temperature, max. | °C / °F | 40 / 104 |
| Water discharge | Manual | |

*) Onboard ships: 60 °C / 140 °F

APPLICABLE FILTER INSERTS

| Type | Application for |
|------|--|
| BLA: | Hydraulic-, lube-, gear- and turbine lube oils (high water content). |



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| COMPONENTS | |
|------------|------------------------|
| Item | Part |
| 1 | Nut |
| 2 | Stay bolt |
| 3 | Bonded seal |
| 4 | Coalescer element |
| 5 | Coalescer housing |
| 6 | Bonded seal |
| 7 | Drain valve |
| 8 | Filter housing |
| 9 | Filter insert |
| 10 | Stay bolt |
| 11 | O-ring |
| 12 | Spring guide |
| 13 | Spring |
| 14 | Nut |
| 15 | Cover |
| 16 | Bonded seal |
| 17 | Vent screw |
| 18 | Pressure gauge |
| 19 | Sampling point |
| 20 | Pump |
| 21 | Bracket |
| 22 | O-ring |
| 23 | Cover |
| 24 | Sieve |
| 25 | Shut off valve |
| A | 3/8" BSP, Oil inlet |
| B | 3/8" BSP, Oil outlet |
| F | 1/4" BSP, Water outlet |

