CLEAN OIL
BRIGHT IDEAS

PTU2 27/27

CJC™ Off-line Filter Separator - **HYDRAULIC**

CJC™ Product Sheet

APPLICATION

The **CJC™ Filter Separator PTU2 27/27 Hydraulic** is used for **hydraulic oils, turbine lube oils and gear oils** with a specific weight lower than that of water. The PTU2 27/27 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.

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.

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
- Drip pan
- Control box
- Tank
- 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 $>3\ \mu$m
  - **0.8 μm nom:** 50% of all solid particles $>0.8\ \mu$m

  are retained in each pass.
  The dirt holding capacity is 4 litres of evenly distributed solids.
- **Degradation Products**
  Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 4 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 PTU2 27/27 PV-E2W

TECHNICAL DATA

Model PTU2 - HYDRAULIC		PTU2 27/27	
		PV	PV-E2W
Pump flow, per hour (std.)	ltr/gal	45-120 / 12-32	
Pump type		PV4	
Pump inlet pressure, max.	bar/psi	0.5 / 7	
Filter Inserts 27/27, std.:	pcs.	1	
Power consumption, aver.	kW	0.18	0.4
Pressure drop, max.	bar/psi	1.8 / 26	
Oil temperature, max.*)	°C/°F	80 / 176	
Dirt holding capacity	ltr/gal	4.4 / 1.2	
Dry weight	kg/lb	60 / 132	72 / 159
Operating weight, wet	kg/lb	75 / 165	87 / 192
Design pressure, filter	bar/psi	4 / 58	
Ambient temperature, max.	°C/°F	40 / 104	
Water discharge		Manual	Automatic

*) Onboard ships: 60°C / 140°F

APPLICABLE FILTER INSERTS

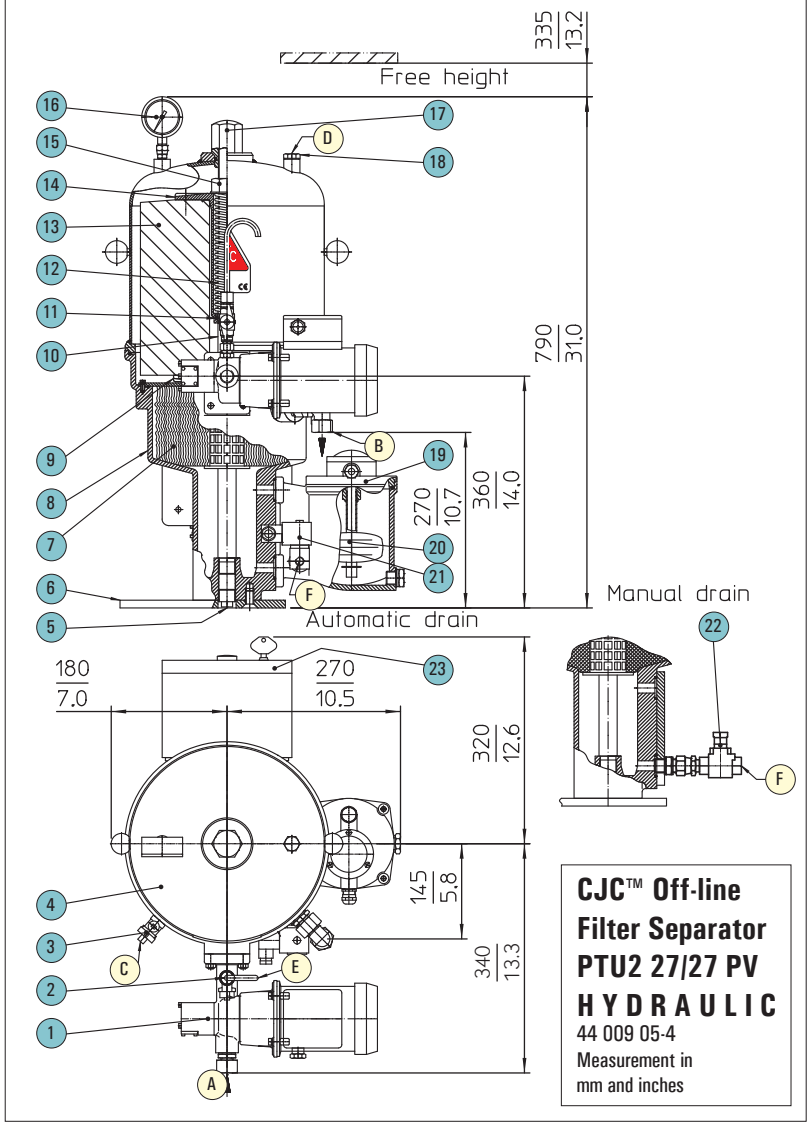
Type	Application for
BLAT:	Hydraulic oils, turbine oils and gear oils, high water content.

CJC™ Product Sheet

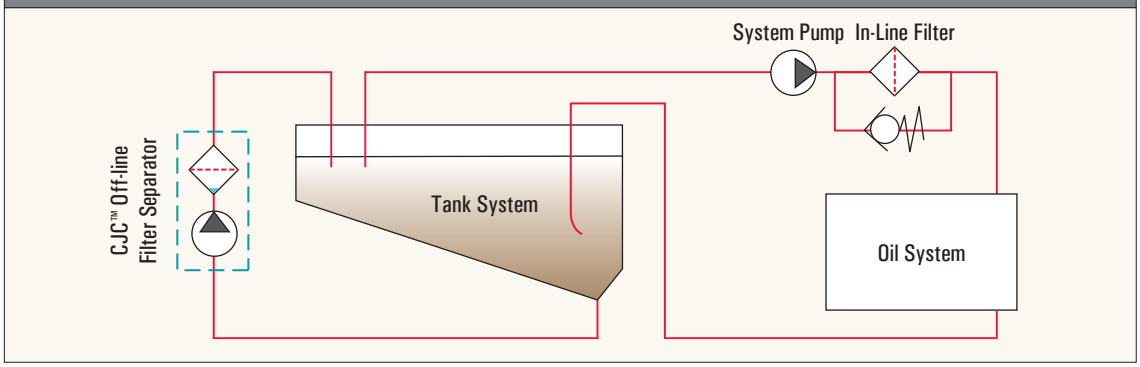
COMPONENTS

Item	Part
1	Pump
2	Sampling point
3	Drain
4	Filter housing
5	Plug
6	Foundation plan
7	Coalescer element
8	Filter base
9	Filter plate
10	Stay bolt
11	O-ring
12	Spring
13	Filter Insert
14	Spring guide
15	Nut for spring
16	Pressure gauge
17	Top nut
18	Vent screw
19	Water discharger, automatic
20	Floater
21	Solenoid valve
22	Water discharger, manual
23	Control box
A	ø18, Oil inlet
B	ø18, Oil outlet
C	3/8" BSP, Drain valve
D	1/4" BSP, Vent
E	Sampling point
F	1/2" BSP, Water outlet

DIMENSIONS



INSTALLATION PRINCIPLE



C.C.JENSEN A/S
Løvholmen 13 • DK-5700 Svendborg • Denmark
Phone: +45 6321 2014 • Fax: +45 6222 4615
filter@cjc.dk • www.cjc.dk