PTU2 27/27 for diesel fuels

CJC® Offline Filter Separator

Product Sheet

APPLICATION

The **CJC® Filter Separator PTU2 27/27 PVM for Diesel Fuels with flexible control box** is used on diesel fuels (light distillates). The CJC® PTU2 is ideal for separation of water, removal of particles and oil degradation products on **diesel oils in service- and settling tanks (bulk/storage) for diesel engines.**

CUSTOMER BENEFITS

Installing a CJC® PTU2 for diesel fuels, you can obtain below benefits:

- high quality diesel, clean & dry
- no bacterial growth in tanks due to diesel bugs
- reduced wear on components like injectors and fuel pumps
- prolonged lifetime on both engine & components
- reduced risk of system breakdown
- ensure operation at peak efficiency
- savings on maintenance budget

FUNCTION

The filter pump draws oil from the settling/bunker 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 adhere to the coalescer element, forming larger drops that will settle in the bottom of the filter base. From the top of the filter base the oil will flow to the service tank or back to the settling/bunker tank. The filter suction pipe should be connected to the bottom of the settling/bunker tank, above the tank drain tap. The filter outlet should be lead to the service tank. An overflow line from the top of the service tank back to the settling tank should be applied in order to secure that surplus oil flows back to the settling/bunker tank. On the PTU with automatic water discharge, separated water is drained automatically. The discharge function can be monitored on the control box. The PTU models are also available with manual water discharge. The pressure drop over the filter - and consequently the particle contaminant absorption of the filter insert - is monitored on the pressure gauge on the filter top.

FILTER PUMP

The filter pump is as standard a CJC® magnetically coupled 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 depending on the fluid to be filtered.

CONTROL BOX

The control box incorporates not only automatic water discharge function, but also motor control, motor protection and high pressure detection (if mounted). Furthermore, the delivery can include a 3 meter power supply cable for flexible mounting apart from the filter housing.

OPTIONS

- Drip pan
- Pressure switch
- Control box (no/flexible)

FILTRATION ABILITY

Please see page 2.

The CJC® Filter Separator PTU2 27/27 PVM for diesel fuels with flexible control box

TECHNICAL DATA

PTU2 27/27 PVM-E2WZ for diesel fuels		
Pump type		PVM
Pump inlet pressure, max.	bar/psi	10 / 145
Pump flow, per hour (std.)	ltr/gal	90 - 300 / 24 - 80
Control box		no or flexible
CJC® Filter Inserts 27/27, std.	pcs.	1
Power consumption, aver.	kW	0.18
Pressure drop, max.	bar/psi	1.8 / 26
Oil temperature, max.*)	°C/°F	60 / 140
Dirt holding capacity, appr.	ltr/gal	4 / 1.1
Dry weight	kg/lb	76 / 168
Operating weight, wet	kg/lb	90 / 198
Design pressure, filter	bar/psi	7 / 102
Ambient temperature, max.	°C/°F	45 / 113
Water discharge		manual or automatic
Article number		FA9601350

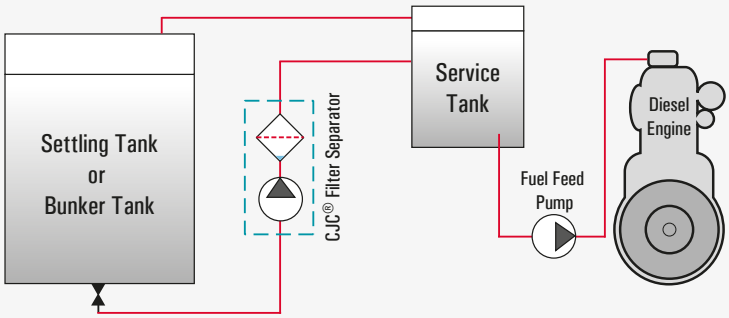
*) The standard filters are designed for a max. temp. of 60°C/140°F. Other conditions, please contact us.

APPLICABLE FILTER INSERTS

Type	Application for
F:	Low flow
FA:	High flow
BLAT:	High flow

Product Sheet

INSTALLATION PRINCIPLE
Diesel Engines



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 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.

Preheating the oil before filter pass may be necessary to prevent segregation of paraffin, but only with blended fuels.

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