



Heavy Duty Filter, HD PTU 15/25

Offline Filter Separator for Severe Conditions

Product Sheet

APPLICATION

The CJC® Heavy Duty Filter, HD PTU 15/25 is used for maintenance of diesel, hydraulic and lube oils at mobile machinery, specially within the mining industry, working under severe conditions such as e.g. excavators, dump trucks, drilling rigs, etc.

BENEFITS

The CJC® HD PTU 15/25 is specially designed for heavy vibrations and shocks and gives you the following benefits:

- Avoid unexpected breakdowns
- Increase machinery uptime
- Reduce maintenance costs
- Extend oil and component life time
- Reduce environmental impact

FILTER INFO

The filter is mounted on a shock absorbed back-plate. To prevent leaks due to shocks/vibration, the filter is equipped with a minimes test-ripple for pressure readings (a pressure gauge prepared for minimes connection is included). Furthermore, the filter is equipped with a pressure switch. The HD PTU 15/25 is ideal for removal of water, particles and oil degradation products.

FUNCTION

The filter pump draws fluid from the system tank (at lowest point) and pumps it through the filter insert. From the centre of the insert the fluid 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 and is drained manually (standard). Optionally a capacitive water level sensor can be mounted for indicating the water level.

The pressure drop across the filter insert - and consequently the contaminant absorption of the filter insert - can be monitored by the pressure gauge on the filter top. The filter outlet port is placed in the top of the coalescer housing. The filtered fluid is to be returned to the tank close to the suction pipe of the main system pump.

Note: The return point should be non-pressurized. Contact us if this is not possible.

FILTER PUMP

The filter pump is a CJC® gear wheel pump. The motor can be supplied as standard AC motors, 24 VDC, and as a hydraulic motor.

FILTER INSERT

The CJC® Filter Inserts consist of several discs bonded together. Depending on the fluid to be filtered, the material is either cellulose or cotton liners.

OPTIONS

- Water level sensor



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TECHNICAL DATA

		Heavy Duty Filter HD PTU 15/25
Pump flow, per hour (std.)	L/gal	30-150 / 8-66
Pump type		PV2
Pump inlet pressure, max.	bar/psi	0.5 / 7
Filter Insert 15/25	pcs.	1
Power consumption, aver.	kW	0.18
Pressure drop, max.	bar/psi	1.8 / 26
Oil temperature, max.	°C/°F	80 / 176
Dirt hold. capacity, appr.	L/gal	0.75 / 0.2
Water absorption capacity	L/gal	0.4 / 0.1
Dry weight, max.	kg/lb	58 / 128
Operating weight, wet, max.	kg/lb	63 / 139
Design pressure, filter	bar/psi	4 / 58
Ambient temperature, max.	°C/°F	40 / 104

FILTRATION ABILITY

- **Water Removal by Separation**
The CJC® Filter Separator removes continuous water ingress 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, 1.5 L 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.

APPLICABLE FILTER INSERTS

Type	Application for
BLA:	Water-based fluids and emulsions *)
F:	Diesel

*) Does not hold water permanently

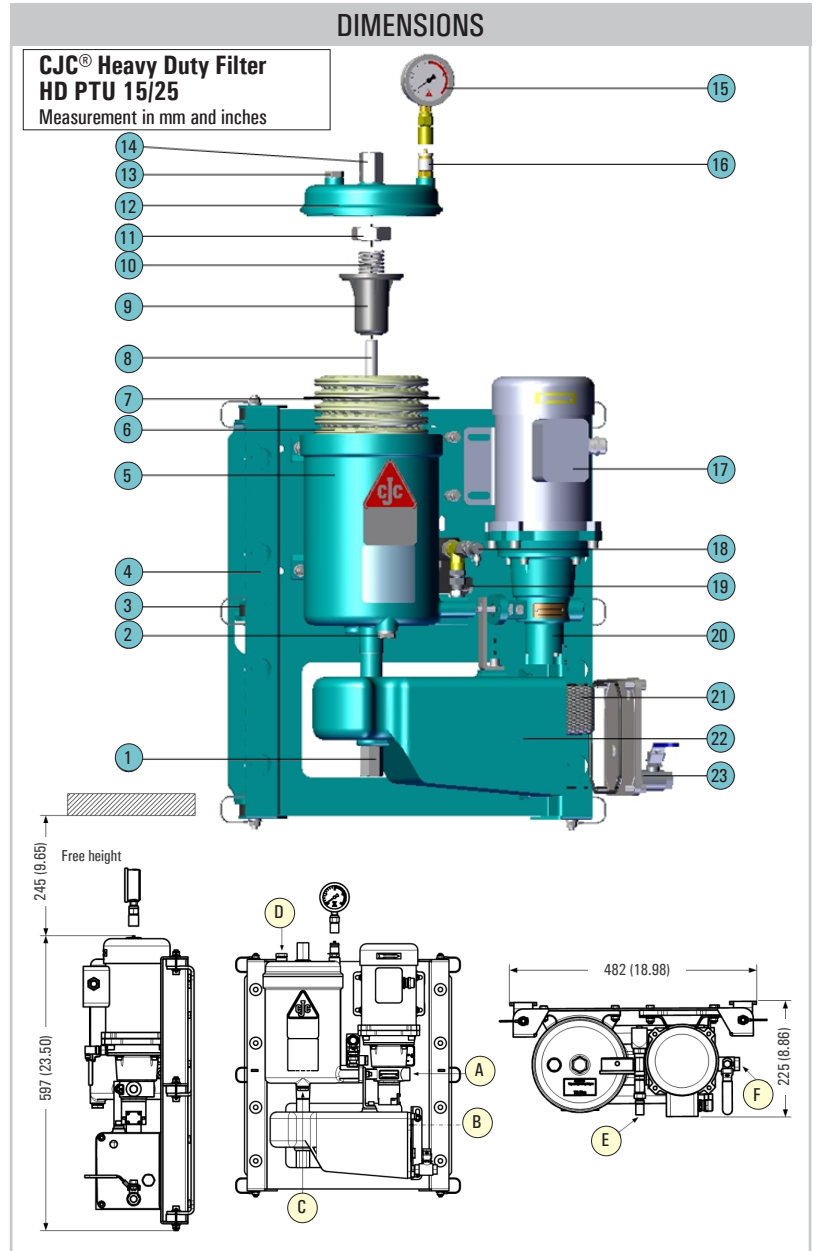


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COMPONENTS	
Item	Part
1	Nut
2	Drain plug
3	Shock absorber
4	Back-plate
5	Filter housing
6	Filter insert
7	O-ring
8	Stay bolt
9	Spring guide
10	Spring
11	Nut for spring
12	Filter cover
13	Vent screw
14	Top Nut
15	Pressure gauge
16	Minimess
17	Motor
18	Sampling point
19	Pressure switch
20	Pump
21	Coalescer element
22	Coalescer housing
23	Water outlet valve
A	3/8" BSP, Oil inlet
B	3/8" BSP, Oil outlet
C	Drain plug
D	Vent screw
E	Sampling point
F	1/4" BSP, Water outlet



INSTALLATION PRINCIPLE

