



CLEAN OIL
BRIGHT IDEAS

Heavy Duty Filter, HD PTU 15/12

CJC™ Offline Filter Separator for Severe Conditions

CJC™ Product Sheet

APPLICATION

The CJC™ Heavy Duty Filter, HD PTU 15/12 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 15/12 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. The HD PTU 15/12 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 where water droplets will settle in the bottom of the coalescer housing (bottom chamber). From the top of the coalescer the oil will flow back to the tank system.

The water is collected 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 means of a pressure gauge on the filter base.

The filter outlet port is placed on front of the filter. 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 24 VDC.

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 linters.

OPTIONS

- Pressure gauge kit
- Water level sensor

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, 0.75 L of evenly distributed solids.

• Degradation Products

Oxidation products, resin / sludge, and varnish are retained by the cellulose material, which will retain appr. 0.5 kg of oil degradation products.



The CJC™ Heavy Duty Filter, HD PTU 15/12

TECHNICAL DATA

		Heavy Duty Filter HD PTU 15/12
Pump flow, per hour (std.)	L/gal	20-120 / 5-32
Pump type		Marzocchi
Pump inlet pressure, max.	bar/psi	1 / 14.5
Filter Inserts 15/12	pcs.	1
Power consumption, aver.	kW	0.06
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	14 / 31
Operating weight, wet, max.	kg/lb	17 / 37
Design pressure, filter	bar/psi	4 / 58
Ambient temperature, max.	°C / °F	40 / 104

APPLICABLE FILTER INSERTS

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

*) Does not hold water permanently



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COMPONENTS	
Item	Part
1	Pump
2	Minimess
3	Base
4	Back-plate
5	Filter housing
6	Top Nut
7	Air vent
8	Spring
9	Spring guide
10	Stay bolt
11	Filter insert
12	Motor
13	Shock absorber
14	Coalescer housing
15	Water level sensor
16	O-ring
17	Locking bolt
18	Sampling point
A	3/8" BSP, Oil inlet
B	3/8" BSP, Oil outlet
C	3/8" Drain plug
D	Air vent
E	Sampling point
F	3/8" Water Outlet
G	Locking bolt

DIMENSIONS

