



CLEAN OIL  
BRIGHT IDEAS

# Heavy Duty Filter, HD HDU 15/12

CJC™ Offline Fine Filter for Severe Conditions

## CJC™ Product Sheet

### APPLICATION

The CJC™ Heavy Duty Filter, HD HDU 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 HDU 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 minimess test-nipple for pressure readings. The HD HDU 15/12 is ideal for removal of particles, oil degradation products and water.

### 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 through the filter house and returns to the tank.

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 liners.

### OPTIONS

- Pressure gauge kit

### FILTRATION ABILITY

#### • 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.

#### • Water Removal

The water absorption potential is up to 50% (i.e. 375 mL H<sub>2</sub>O) of the total contaminant holding capacity.



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

### TECHNICAL DATA

		Heavy Duty Filter HD HDU 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 Insert 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	12 / 26
Operating weight, wet, max.	kg/lb	14 / 31
Design pressure, filter	bar/psi	4 / 58
Ambient temperature, max.	°C/°F	40 / 104

\*) The standard filters are designed for a max. temp. of 80 °C / 176 °F. Other conditions, please contact us.

### APPLICABLE FILTER INSERTS

Type	Application for
B:	High flows - (large system fluid volumes)
BG:	High viscosity and large flows
BLA:	Water-based fluids and emulsions *)
FB:	Diesel

\*) Does not hold water permanently



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## CJC™ Product Sheet

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	O-ring
15	Locking bolt
16	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	Locking bolt

