



CLEAN OIL
BRIGHT IDEAS

HD HDU 15/25 Heavy Duty Filter

CJC™ Offline Fine Filter for Severe Conditions

CJC™ Product Sheet

APPLICATION

The CJC™ HD HDU 15/25 Heavy Duty Filter is used for the maintenance of fluids for power transmission, lubrication and cooling, under severe conditions such as the mobile machinery in mining and the forest industry. The filter is mounted on a shock absorbed back-plate. Furthermore, the electrical motor is dust and waterproof and designed for high pressure washing.

To prevent leaks due to shocks/vibration, the filter is equipped with a minimess test-nipple for pressure readings (a pressure gauge prepared for minimess connection is included). Furthermore, the filter is equipped with a pressure switch. The HD HDU 15/25 is ideal for removal of particles, 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 - is monitored on the pressure gauge on the filter top.

The filter outlet port is placed in the filter base. The filtered fluid is to be returned to the tank close to the suction pipe of the main system pump.

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

THE 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

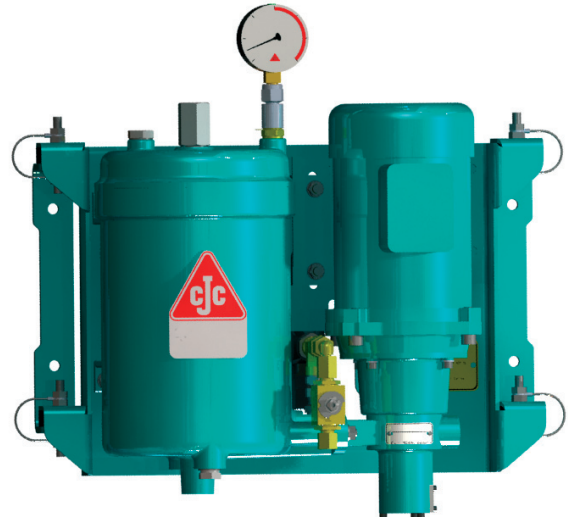
The CJC™ Filter Inserts consist of several discs bonded together. Depending on the fluid to be filtered, the material is either cellulose or cotton liners.

OPTIONS

- C4 Painting
- Minimess (oil sampling)
- Control Box
- Coalescer

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** is 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.
- **Water Removal**
The water absorption potential is up to 50% (i.e. 750 mL H₂O) of the total contaminant holding capacity.



The CJC™ HD HDU 15/25 PV-P, Heavy Duty Filter

TECHNICAL DATA

Model:		HD HDU 15/25 PV-P
Pump flow, per hour (std.)	L/gal	30-120 / 8-32
Pump type		PV2
Pump inlet pressure, max.	bar/psi	0.5 / 7
Filter Inserts 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	1.5 / 0.4
Water absorption capacity	L/gal	0.75 / 0.20
Dry weight	kg/lb	30 / 66
Operating weight, wet	kg/lb	36 / 79
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
A:	Low flow (small system fluid volumes)
B:	Higher flow (larger system fluid volumes)
BG	High viscosity and larger flows
BLA:	Water-based fluids and emulsions **)
BLDA	Glycol-based flame proof hydraulic fluids **)

***) Does not hold water permanently



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COMPONENTS	
Item	Part
1	Drain plug
2	Filter house
3	Filter insert
4	Stay bolt
5	O-ring
6	Spring guide
7	Spring
8	Nut
9	Cover
10	Bonded seal
11	Vent screw
12	Top nut
13	Pressure gauge
14	Pump
15	Sampling point
16	Pressure switch
17	Minimess
18	Backplate
19	Shock absorber
A	3/8" BSP, Oil inlet
B	3/8" BSP, Oil outlet

