



CLEAN OIL
BRIGHT IDEAS

HDU 38/60-100

CJC™ Offline Fine Filter

CJC™ Product Sheet

APPLICATION

The HDU 38/- series of CJC™ Offline Fine Filters are used for the maintenance of fluids for quenching, lubrication and coolant systems. The HDU 38/60-100 is ideal for removal of particles, degradation products and water, with a very high dirt holding capacity.

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 base 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 gear wheel pump. The electric motor can be supplied as standard AC and DC motors.

FILTER INSERT

The CJC™ Filter Inserts consist of several discs bonded together. The material is wood cellulose.

OPTIONS

- Preheater
- Tank
- Drip pan
- Control box
- Pressure switch
- Prefilter
- Aut. air vent

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 7.5-12.5 litres of evenly distributed solids.
- **Degradation Products**
Oxidation products, resin/sludge, and varnish are retained by the cellulose material, which will retain appr. 13.5-22.5 kgs of oil degradation products.
- **Water Removal**
The water absorption potential is up to 50% (i.e. 3750-6250 mL H₂O) of the total contaminant holding capacity.



The CJC™ Fine Filter HDU 38/100 PV

TECHNICAL DATA

		HDU 38/60	HDU 38/100
Pump flow, per hour (std.)	L/gal	45 - 2500 / 12 - 661	
Pump type		PV / P / MZ / GP / KF	
Pump inlet pressure, max.	bar/psi	0.5 / 7	
Filter inserts 38/20	pcs.	3	5
Power consumption, avr.	kW	0.15-1.1	
Pressure drop, max.	bar/psi	1.8 / 26	
Oil temp. max.	°C/°F	120/248	
Dirt hold. capacity, appr.	L/gal	7.50/2.00	12.50/3.30
Water absorption capacity	L/gal	3.75/1.00	6.25/1.65
Dry weight	kg/lb	82/181	104/229
Operating weight, wet	kg/lb	114/251	153/337
Design pressure, filter	bar/psi	4 / 58	
Ambient temperature, max.	°C/°F	40/104	

APPLICABLE FILTER INSERTS

Type	Application for
A:	Low flow (small system fluid volumes)
F:	Quenching, lube and diesel oils**)

**) Does not hold water permanently



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COMPONENTS	
Item	Part
1	Filter base
2	Cover
3	Stay bolt
4	Filter housing
5	Pressure gauge
6	Top nut
7	Vent screw
8	Nut for spring
9	Spring guide
10	Spring
11	O-ring for spring guide
12	Filter Insert
13	O-ring for filter base
14	Pump
15	Sampling point
16	Drain valve
17	Pressure switch
A	3/4" BSP, Oil inlet
B	3/4" BSP, Oil outlet
C	1/2" BSP, Drain valve
D	1/4" BSP, Vent
E	Sampling point
F	1/4" BSP, Pressure switch

