



OIL MAINTENANCE

HDU 427/54-108 P

CJC™ Off-line FineFilter

CJC™ Product Sheet

APPLICATION

The **HDU 427/- series of CJC™ Off-line Fine-Filters** are used for the maintenance of fluids for **power transmission, lubrication, cooling and quench oil.**

FUNCTION

The filter pump draws fluid from the system tank (at lowest point) and presses 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 over the filter - and consequently the contaminant absorption of the filter insert - is monitored on the pressure gauge between pump and filter housing.

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

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

THE FILTER PUMP

The filter pump is a CJC gear pump. The electric motor can be supplied for AC and DC voltages.

FILTER INSERT

The CJC™ FilterInserts consist of several discs bonded together. The material is either cellulose or cotton linters depending on the fluid to be filtered.

OPTIONS

- Preheater
- Drip pan
- Tank
- Control box

FILTRATION ABILITY

All CJC™ FilterInserts have a **filtration degree of 3 µm** (micron) absolute, i.e. 98.7% of all solid particles > 3 µm and approximately 50% of all particles > 0.8 µm will be retained in one pass.

The **water absorption capacity** of the cellulose based inserts is up to **50% of the total contaminant holding capacity.**

The depth of the CJC™ off-line Filter Inserts creates a highly efficient **oxidation adsorption.**



The CJC™ FineFilter
HDU 427/108 P

TECHNICAL DATA

Model HDU:		427/54	427/81	427/108
Pump flow, std. / per hour	ltr/gal	200 - 8000 / 53 - 2113		
Pump type		P/MZ/GP	P/MZ/GP	P/MZ/GP
FilterInserts 27/27	qty	8	12	16
Power consumption, aver.	kW	0.25 - 2.2	0.25 - 2.2	0.25 - 2.2
Max. pressure drop	bar/psi	2.0/29	2.0/29	2.0/29
Max. fluid temp. *)	°C/°F	80/176	80/176	80/176
Dirt hold. capacity, appr.	ltr/gal	32/8.5	48/12.6	64/16.9
Water absorption capacity	ltr/gal	16/4.2	24/6.3	32/8.5
Dry weight	kg/lb	430/948	490/1080	555/1224
Operating weight, wet	kg/lb	537/1184	645/1422	755/1664
Design pressure	bar/psi	3.5 / 51	3.5 / 51	3.5 / 51
Max. ambient temp.	°C/°F	45/113	45/113	45/113

*) 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:	High flow - (large system fluid volumes).
F:	Quenching oils.
BLA:	Water-based fluids and emulsions.



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COMPONENTS	
Item	Part
1	Filter base
2	Drain valve
3	Filter plate
4	Stay bolt
5	FilterInsert
6	Cover
7	Filter housing
8	Pressure gauge
9	O-ring
10	Spring
11	Spring guide
12	Nut for spring
13	Top nut
14	Sampling point
15	Pump
A	ø18, Oil inlet
B	ø18, Oil outlet
C	1/2" BSP, Drain valve
D	1/4" BSP, Vent
E	Sampling point
F	ø18, Water outlet (only for H3 version)
G	ø18, Water inlet (only for H3 version)

