

CJC™ Product Sheet

APPLICATION

Removing acidity, sludge, particles, and moisture from transformer oil.

FUNCTION

The Filter Unit circulates the oil from the transformer whilst in operation, drawing the oil from the lowest point.

During the first phase of treatment the oil passes through a set of neutralizing filter inserts, absorbing the acid from the fluid.

The second phase uses standard C.C.JENSEN Fine Filters removing the particles, sludge and small amounts of moisture.

After the treatment is complete it could be possible that inhibitors need to be added, therefore a small separate filling pump is installed between the neutralizing filter and the fine filtration.

THE FILTER PUMP

The filter pump is a CJC gear pump. It can be supplied with different flows, according to transformer size and fine filter size.

FILTER INSERT

The CJC™ Filter Inserts consist of several cellulose discs bonded together. The neutralizing media is a Fuller's Earth or an ion exchange resin, supplied in replaceable inserts.

OPTIONS

- Preheater
- Mobile

FILTRATION ABILITY

All CJC™ Filter Inserts 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™ Fine Filter
HDU 3x27/108-108 MZ-CE1MPTV
with Fine Filter Inserts A and Fine Filter Inserts for acid removal EC.

TECHNICAL DATA

Model HDU		2x27/108-54	3x27/108-108	4x27/108-108
Pump flow, std./per hour	ltr/gal	240 / 64	590 / 155	785 / 207
Pump type		P/MZ/GP	P/MZ/GP	P/MZ/GP
Filter Insert:				
Fine Filter Inserts	qty	2 x 27/27	4 x 27/27	4 x 27/27
Acidity Removal Inserts	qty	1 x 27/108	2 x 27/108	3 x 27/108
Power consumption	kW	0.25	0.25	0.25
Max. fluid temp.	°C/°F	80 / 176	80 / 176	80 / 176 *)
Dirt hold. capacity	ltr/gal	8 / 2.1	16 / 4.2	16 / 4.2
Dry weight	kg/lb	280 / 617	400 / 882	545 / 1202
Operating weight, wet	kg/lb	358 / 789	556 / 1226	753 / 1660
Design pressure	bar/psi	4 / 58	4 / 58	4 / 58
Max. ambient temp.	°C/°F	40 / 104	40 / 104	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	Purpose
Fine Filter Inserts:	
A:	Removal of particles and sludge.
B:	Removal of particles and sludge with higher flow.
Acidity Removal Inserts:	
EC:	Fuller's earth, replacement insert to remove acidity.
EL:	Ion exchange resin, replacement insert to remove acidity.



OIL MAINTENANCE

HDU 3x27/108-108

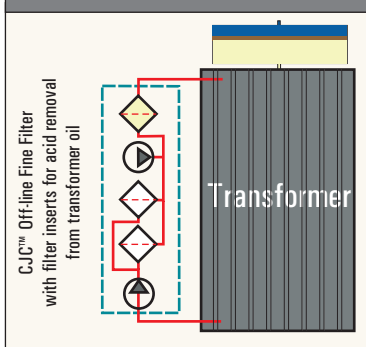
CJC™ Off-line Fine Filter - Acidity Removal from Transformer Oils

CJC™ Product Sheet

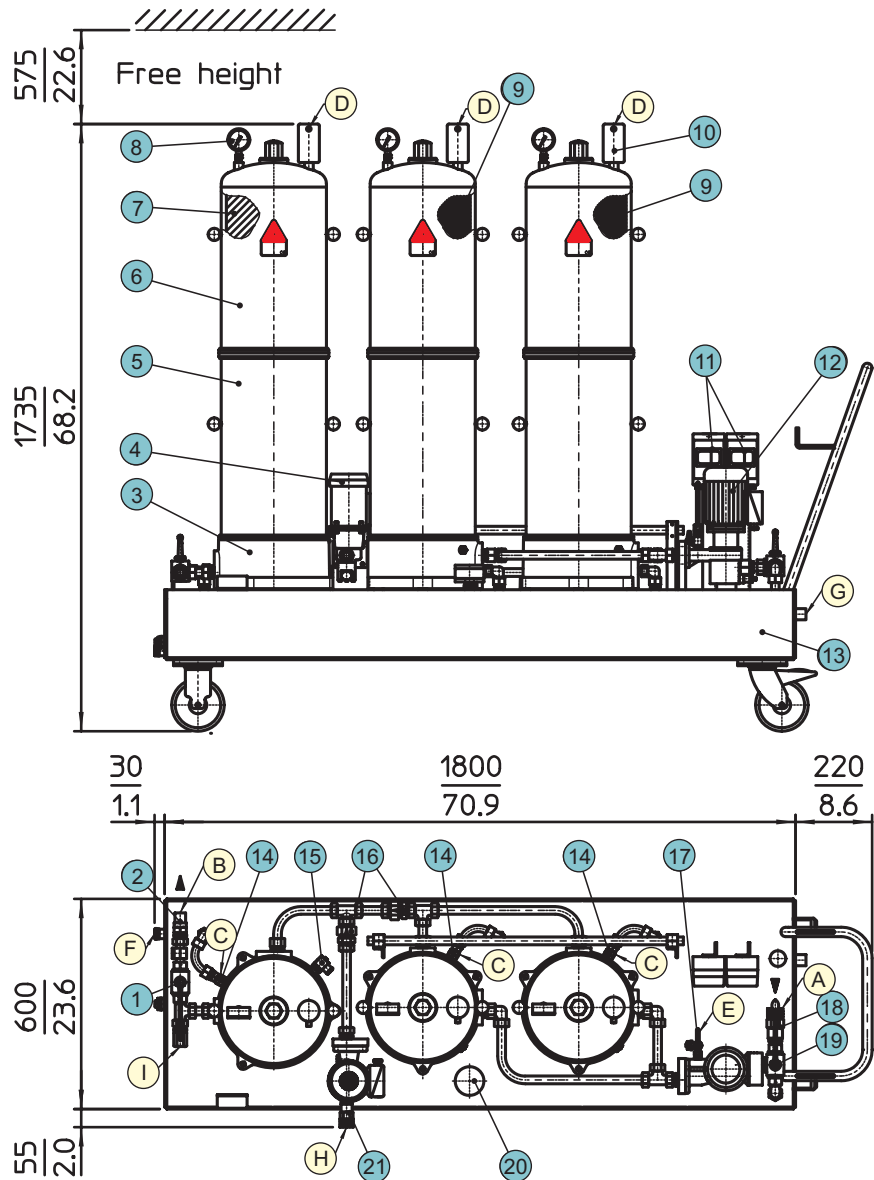
COMPONENTS

Item	Part
1	Shut off valve
2	Quick release coupling male oil outlet
3	Filter base
4	Pump (type PV 4-18-4)
5	Cover
6	Filter housing
7	Fine Filter Insert
8	Pressure gauge
9	Acidity removal insert
10	Aut. vent
11	Manual motor starter
12	Pump (type MZ-9-4)
13	Drain tank, mobile
14	Drain valve
15	Pressure switch
16	Non return valve
17	Sampling point
18	Quick release coupling, female oil inlet
19	3-way valve, L-port
20	Vent tank
21	Quick release coupling, female
A	3/4" BSP, Quick release coupling, female. Oil inlet
B	3/4" BSP, Quick release coupling, male. Oil outlet
C	Drain valve.
D	1/4" BSP, Aut. vent
E	Sampling point
F	Drain plug
G	3/4" BSP, Drain, drip pan
H	1/2" BSP, Quick release coupling, female. Suction from barrel
I	1/2" BSP, Port for temp. sensor

INSTALLATION PRINCIPLE



DIMENSIONS



CJC™ Off-line Fine Filter
HDU 3x27/108-108 MZ
 44 009 09-4
 Measurements in mm and inches