



# Acidity Removal - HDU 2x27/108-108

For systems with fluid volumes up to 4,000 ltr.

## Product Sheet

### APPLICATION

The CJC® HDU 2x27/108-108 is removing acidity, sludge, particles, and moisture from HFD-fluids (Phosphoric Ester), transformer oils (Insulating oils) and crankcase lube oils (gas engines). When oils/fluids degrade they form acidity compounds, especially ester based fluids, which have access to humidity. Acidity (TAN) can increase to dangerous levels, causing acidity corrosion and etching/pitting.

### BENEFITS

- Reduced risk of unscheduled downtime e.g. turbine trips
- Increased oil/fluid life by reducing TAN and increasing resistivity
- Increased machine component life
- Suitable for systems with fluid volumes up to 4,000 ltr (1,000 gal)

### FUNCTION

The CJC® Oil Filter circulates the fluid from the reservoir, drawing the fluid from the lowest and most contaminated point. During the first phase of treatment, the fluid passes through a set of neutralizing CJC® Filter Inserts, absorbing the acidity from the fluid. The second phase uses CJC® Cellulose Filter Inserts, removing particles, sludge and small amounts of moisture. The fluid is then returned to the reservoir.

### THE FILTER PUMP

The filter pump is a gear wheel pump. The electric motor can be supplied for all standard AC voltages.

### FILTER INSERT

The CJC® Cellulose 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 Filter Insert bags. Molecular Sieve is ideal for removal of water from fluids where very low moisture levels are required.

### OPTIONS

- Control box
- Pressure switch
- Leak detection

### 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 4-16 litres of evenly distributed solids.
- **Degradation Products**  
Oxidation by-products, resin / sludge, and varnish are retained by the cellulose material. The cellulose will retain appr. 4-16 kgs of degradation products.
- **Water Removal**  
The water absorption potential is up to 50% (i.e. 2,000-8,000 mL H<sub>2</sub>O) of the total contaminant holding capacity.



The CJC® Fine Filter for acidity removal HDU 2x27/54-27 PV

### TECHNICAL DATA

		2x 27/27-27	2x 27/54-27	2x 27/108-108
<b>Pump flow, per hour (std.)</b>	ltr/gal	60 / 16	120 / 32	250 / 66
<b>Pump type</b>		PV		
<b>Pump inlet pressure, max.</b>	bar/psi	0.5 / 7		
<b>Filter Insert 27/27</b>				
Fine Filter Inserts	pcs.	1 x 27/27	1 x 27/27	4 x 27/27
Acidity Removal Inserts		1 x 27/27	2 x 27/27	4 x 27/27
<b>Power consump., aver.</b>	kW	0.18		
<b>Pressure drop, max.</b>	bar/psi	1.8 / 26		
<b>Oil temperature, max.*)</b>	°C/°F	80 / 176		
<b>Dirt holding capacity, appr.</b>	ltr/gal	4 / 1.1	4 / 1.1	16 / 4.2
<b>Dry weight</b>	kg/lb	163 / 359	171 / 377	187 / 412
<b>Operating weight, wet</b>	kg/lb	180 / 400	196 / 430	253 / 560
<b>Design pressure, filter</b>	bar/psi	7 / 102		
<b>Ambient temperature, max.</b>	°C/°F	45 / 113		
<b>Article no.</b>		FA7617205 / FA7617209		

\*) 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 removal of
EL / A	acidity, particles and sludge
EL / MSJT	acidity, moisture, particles and sludge
EC / B	acidity, particles and sludge, high flow
EC / GFi	acidity, sludge and very fine particles in ester based fluids
EL / GFi	acidity, sludge and very fine particles in ester based fluids
MS / GFi	acidity, sludge and very fine particles in ester based fluids



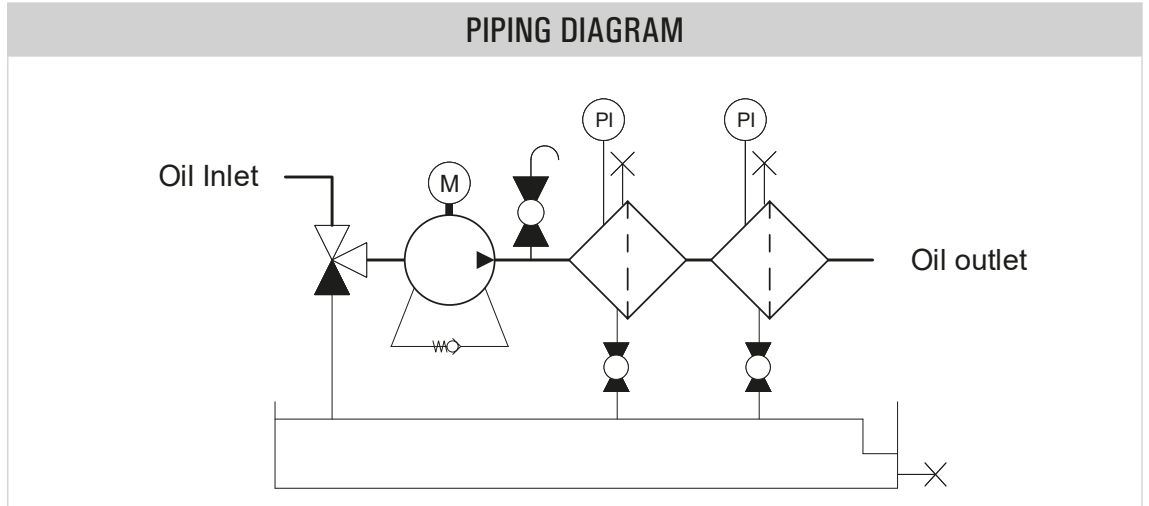


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### PIPING DIAGRAM



### INSTALLATION PRINCIPLE

