



CLEAN OIL  
BRIGHT IDEAS

# HDU 27/- & 427/- Series for Marine Engines

Lube Oil Offline Fine Filters for Marine Engines - Running on Gas Oil or Marine Diesel Fuel

## CJC™ Product Sheet

### THE FINE FILTERS

The CJC™ HDU Offline Fine Filters are well-known and proven means of cleaning lubrication oil on diesel engines. C.C.JENSEN A/S has supplied fine filtration systems for various marks of diesel engines for more than 50 years.

CJC™ Fine Filters are almost maintenance free and with filter insert lifetime up to 3,500 engine operating hours or more. The largest single CJC™ Fine Filter has a dirt holding capacity of 40 kg.

CJC™ Fine Filters can be installed as the only cleaning equipment for the lubricating oil on engines running on gas oil or marine diesel.

### TECHNICAL FEATURES

- 3 micron abs. rating
- 0.8 micron nom. rating
- Absorption of free water as well as dissolved water
- Absorption of soot and oil oxidation products
- Average filter insert change intervals up to 3,500 engine operating hours
- No complicated process or parts

- = low investment cost
- = low maintenance cost
- = clean oil - low soot content

### LUBE OIL FILTRATION

The lube oil on a diesel engine is constantly contaminated by combustion blow-by debris, and metal particles. The smaller combustion particles damage the oil and accelerate oil oxidation, thereby lead to decreased TBN, increased viscosity and finally oil change. However, most harmful to the engine parts are the solid 3 - 10 micron particles which cause wear, blockage, fatigue and polishing of cylinder liners, camshafts and bearings.

Effective removal of contaminants through an external cleaning system will add further life to both engine and oil.

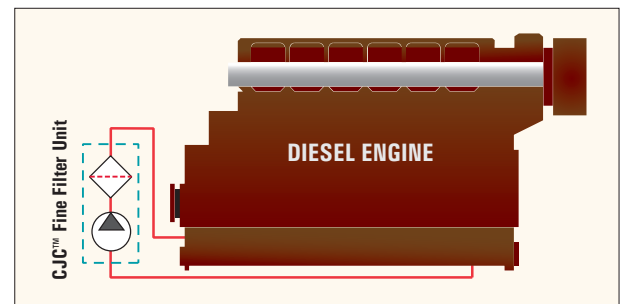
### HDU 27/- SERIES:

**Housing sizes:**  
27/27, 54, 81 and 108

**Filter Inserts types:**  
A 27, B 27

**Pump range:**  
45 - 2,000 L / hour

Available with drain tank, pressure control, preheaters, etc.



*Typically Offline installation of a CJC™ HDU Fine Filter on a diesel engine lube oil system.*

### HDU 427/- SERIES:

**Housing sizes:**  
427/54, 81 and 108

**Filter Inserts types:**  
A 27

**Pump range:**  
200 - 800 L / hour

Available with internal heat loss compensators, preheaters, etc.





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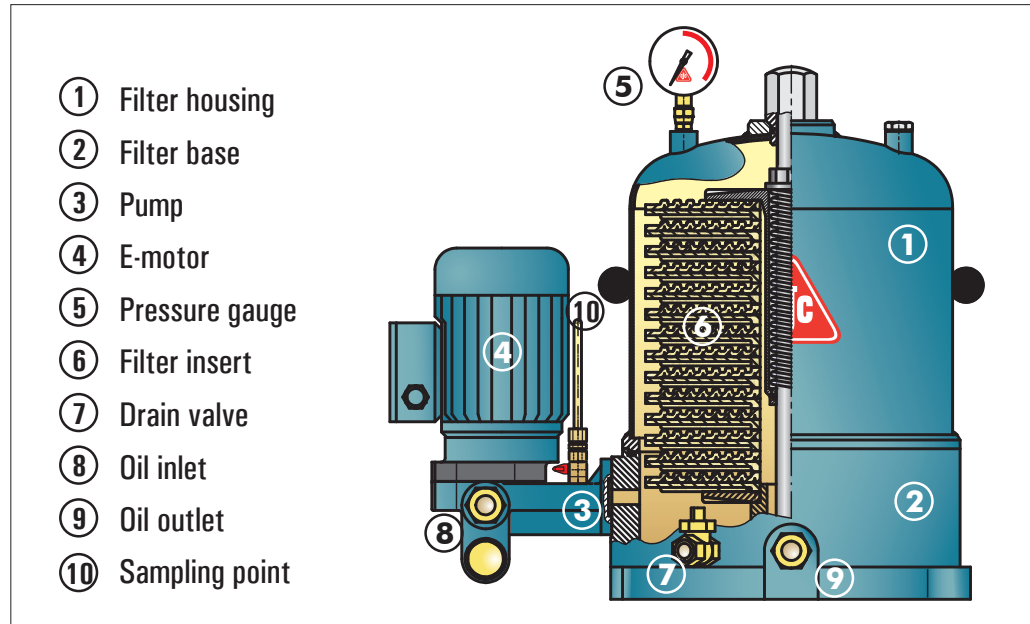
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### MAIN COMPONENTS

HDU 27/- Series



- ① Filter housing
- ② Filter base
- ③ Pump
- ④ E-motor
- ⑤ Pressure gauge
- ⑥ Filter insert
- ⑦ Drain valve
- ⑧ Oil inlet
- ⑨ Oil outlet
- ⑩ Sampling point

### RECOMMENDED DIMENSIONING

of CJC™ HDU Fine Filters

For engines run on pure distillate fuel, e.g. MGO				
Engine kW	Engine HP	CJC Filter type	Pump type	Insert type
550	750	HDU 27/81 PV	PV4-14-4	A
735	1000	HDU 27/108 PV	PV4-18-4	A
1100	1500	HDU 427/54 P	P-9-6	A
1500	2050	HDU 38/100 P	P-9-6	A
1840	2500	HDU 427/81 P	P-11-6	A
2940	4000	HDU 427/108 P	P-19-6	A

For engines run on residual fuel, e.g. HFO, Vegetable oils				
Engine kW	Engine HP	CJC Filter type	Pump type	Insert type
370	500	HDU 27/81 PV	PV4-14-4	A
550	750	HDU 27/108 PV	PV4-18-4	A
735	1000	HDU 427/54 P	P-9-6	A
1000	1350	HDU 38/100 P	P-9-6	A
1840	2500	HDU 427/81 P	P-11-6	A
2200	3000	HDU 427/108 P	P-19-6	A