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PFS Fueltec Ltd, Unit 2-3 Wheaton Court, Eastern Industrial Estate, Wheaton Road, Witham, Essex CM8 3UJ

CC Jensen Fuel Polisher Specifications

1. General:

- 1.1. The Diesel Fuel Polisher shall be an HDU unit manufactured by CC Jensen and supplied by PFS Fueltec Ltd or approved equivalent
- 1.2. The fuel polishing system shall be designed to filter contaminants and water from the following fuel types:
 - Diesel
 - HVO
 - Bio-Diesel
- 1.3. The filter system shall have connections for inlet, outlet and drainage
- 1.4. The fuel polisher will include an integrated suction pumping system, which shall draw fuel from the lowest accessible point of the fuel storage tank. After passing through the filter insert from the outside and inwards, the oil shall be returned to the fuel storage tank via the outlet connection of the CJC™ Filter System.
- 1.5. The fuel polisher shall be available with either a three-phase or single-phase pump motor
- 1.6. The fuel polisher shall be designed to run continuously 24 hours per day, 7 days a week to ensure proper filtration and to reduce the risk of contamination being forced through the filtration medium due to hydraulic hammer
- 1.7. The fuel polisher shall include an easily changeable filter insert, serving as the active filter media, which shall continuously remove particles, oil degradation products, and water from the diesel, to the following cleanliness specification;
 - Particles > 3µm absolute: 98.7% removal.
 - Water < 100ppm in diesel
- 1.8. The recommended model shall be selected based on the tank capacity as follows, this will ensure complete cycling of all fuel within the tank at least 2 times per week with filter insert change based on service time of 1 year:
 - **For tanks with a capacity of 0 - 20,000 litres:**
 - Model : HDU 15/25
 - Flow-rate: 250 litres/hour
 - Dirt-Holding capacity: 1.5 litres



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- **For tanks with a capacity of 20,000 – 50,000 litres:**
 - Model : HDU 27/27
 - Flow-rate: 600 litres/hour
 - Dirt-Holding capacity: 4 litres
- **For tanks with a capacity of 50,000 – 70,000 litres:**
 - Model : HDU 27/54
 - Flow-rate: 785 litres/hour
 - Dirt-Holding capacity: 8 litres
- **For tanks with a capacity of 70,000 – 80,000 litres:**
 - Model : HDU 27/81
 - Flow-rate: 960 litres/hour
 - Dirt-Holding capacity: 12 litres
- **For tanks with a capacity of 80,000 – 100,000 litres: HDU 27/27**
 - Model : HDU 27/108
 - Flow-rate: 1260 litres/hour
 - Dirt-Holding capacity: 16 litres

2. Installation:

- 2.1. The CJC™ Filter System must be mounted on a flat, level base capable of carrying the system securely.
- 2.2. The installation must allow for safe maintenance of the CJC™ Filter System, including filter insert replacement
- 2.3. Independent suction and return lines must connect the filter system to the main system.
- 2.4. Ball valves shall be installed on suction and return lines for ease of servicing.
- 2.5. The suction line shall be connected to the lowest and most contaminated position in the system tank.
- 2.6. The return line shall be led back into the tank close to the suction pipe of the system pump, preferably below the oil surface to minimize splashing and oxidation of the oil.

3. Options & Extras:

3.1. Drip-tray and Leak Detection:

- The unit shall be mounted on a drip-tray to collect spills and leaks.
- The unit shall have a leak detection float switch sensor mounted in the drip tray to detect liquid build-up.



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3.2. Dry-run & Filter Change Detection:

- The unit shall have a flow sensor in the pipework before the filter to detect dry-run.
- The unit shall have a pressure switch in the pipework before the filter to detect a pressure build-up signifying a required filter change.

3.3. Fuel Sampling Point:

- The unit shall be complete with a minimess sampling point for leak-free and easy fuel sampling.