

This automated Algae-X Fuel Oil Conditioning System treats all fuel going from the storage tanks. It continuously provides optimal quality fuel with less than 2.6 ppm of contaminant at less than 5 micron in size and less than 200 ppm of water.



The Fuel Oil Conditioning System will mainly consist of:

- Two Horizontal Filter/water separator vessels
- Automatic stainless steel air eliminator with three ball valves for quick de-aeration, inlet & outlet
- Interconnecting piping & Isolating valves
- Safety valve for thermal expansion set at 115 PSI
- Temperature sensor
- E&H delta "P" transmitter/indicator with block & bleed valve
- Material: Steel / stainless steel / cast iron

Automatic Water Drain System

- Water Level sensor mounted in the water sump
- Electrically operated water drain valve with limit switches
- Magnetic water level indicator, length 350 mm, with Maximum-level-switch for high level alarm function
 - o Scale with visible length 350 mm
 - o Maximum-level-switch for high level alarm
- Controller: Sensors, relays & indicator lights

Series	HFWS 500/3 Skid
Dimensions	19.6" D x 73" H (500mm D x 1850mm H)
Flow rates	86 gpm (325 l/m)
Max. Pressure	10 Bar
Min. Pressure	1 Bar
Max. Temp	122 F (+50 C)
Min. Temp	43 F (+6 C)
Internals	Coalescer Elements: 3 x c-5305 Separator Elements: 2 x S-7262
Filter Micon	Filtration 5 Micron Nominal
Pressure Drop	Clean Approx 0.1 bar - Max 0.69 bar
Design Code	ASME VIII Div.1
Design Pressure	10 bar g
Design Temp.	122 F (50 C)
Materials	Main Vessels Carbon Steel
Heads	A516 Gr.60
Nozzles	A106B
Closure Flange	A516 Gr.60
Cover Gasket	Viton O-Ring
Cartridge Mounting	Aluminum/Nylon
Shell	A106B
Flanges	A105
Coating	3-Layer Paint System To Withstand Severe Conditions
Power	230V 50/60 Hz

The skid is equipped with two filter/water separator vessels with coalescing and filtration elements. The water separated from the supplied fuel oil is collected and automatically drained. Its control panel with all the safety and alarm functions is directly wired into the plant's business management center to be monitored and managed from the plant's control room. The system's capacity is 30,000 liters/hour and operates at a continuous duty cycle flow rate of 325 liters per minute (86 Gallons per minute).

ALGAE-X[®] Total Fuel Management Systems

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