IPCO Fuel Treatment Systems  
FID Injector plus

Combustion improvement system designed to create a stable “water in fuel” emulsion. The implementation of emulsified fuel significantly enhances fuel atomization and distribution in the combustion chamber. This results in more effective combustion, lower fuel consumption and a reduction of NOx, HC and PM pollutants, while the engine’s combustion chambers, pistons, exhaust system and lube oil will stay much cleaner.

Specifications

System:
Fuel Improvement Device (FID) Injector, Vertical Homogenizer, with Magnetic motor coupling, Homogenizer is made from Aluminum 7075 T6 with special proprietary hard coat. Equipped with high-pressure water pump and PLC control program. Emerson Coriolis Mass Flow meters for water and fuel included for high accurate measuring.

Pressure: Max 12 bar
Temperature: Min 90°C for HFO
Power supply: 400/440/460 Volt or 690 Volt
Control Panel: 230V@50Hz / 250V@60Hz (Transformer in control panel)
Protection Class: IP54

<table>
<thead>
<tr>
<th>Capacity and power:</th>
<th>FID Type</th>
<th>Capacity l/h</th>
<th>Power kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>FID 045</td>
<td>4.500</td>
<td>23/25</td>
<td></td>
</tr>
<tr>
<td>FID 090</td>
<td>9.000</td>
<td>23/25</td>
<td></td>
</tr>
<tr>
<td>FID 120</td>
<td>12.000</td>
<td>23/25</td>
<td></td>
</tr>
</tbody>
</table>

Flange Connections: DN 50 and SAE Flange (counter SAE flange is supplied)
Paint: RAL7016
External connections: ESD to the ship, ESD from the ship, Running contact, Fault contact and water in fuel percentage (connections are not required to operate)

Standard FID Injector include the following components:
- Fuel Improvement Device
- Electronic Cabinet
- Frame
- Water pump
- 4 hrs Workshop Test
- 2 x Operating Manuals
Dimensions:

Separate Emerson F200 to installed in fuel line towards FID Injector

A = 600 mm | B = 165 mm | D = 319 mm | E = 454 mm | F = 143 mm | G = 356 mm | H = 61 mm

Location: