

## 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

**Capacity and power:**

FID Type	Capacity l/h	Power kW
FID 045	4.500	23/25
FID 090	9.000	23/25
FID 120	12.000	23/25

Higher capacities are available on request

**Flange Connections:**

DN 50 and SAE Flange (counter SAE flange is supplied)

**Paint:**

RAL7016

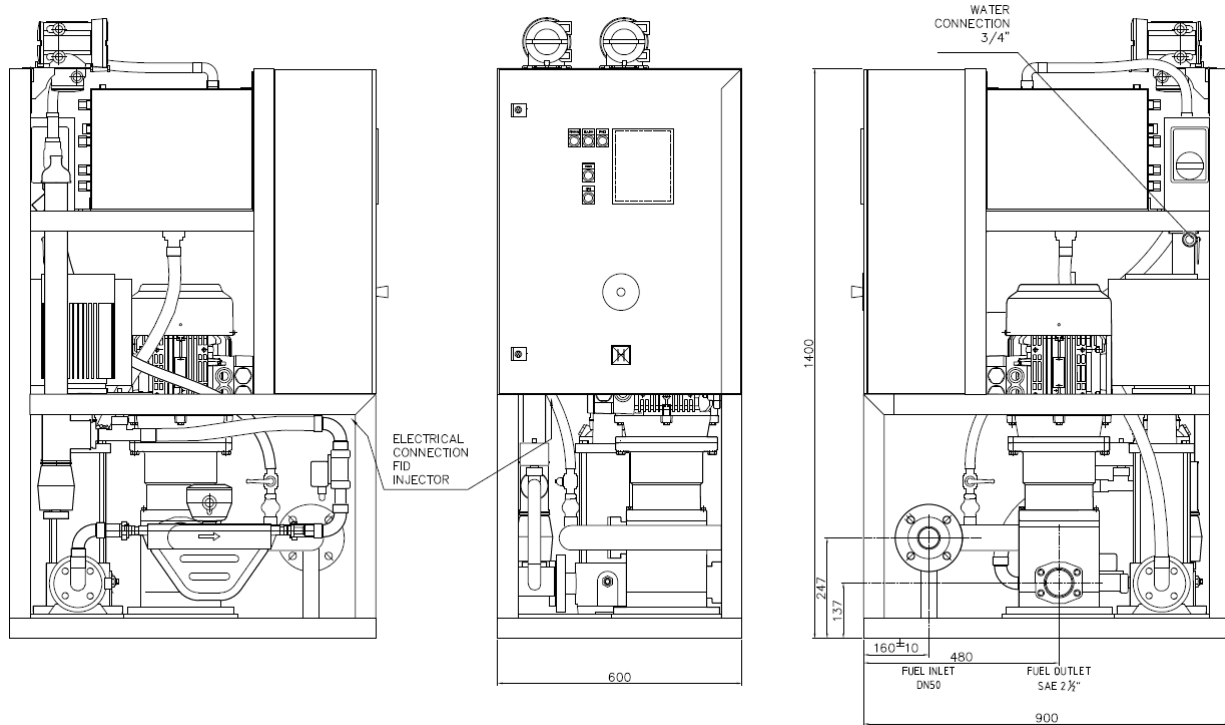
**External connections:**

ESD to the ship, ESD from the ship, Running contact, Fault contact and water in fuel percentage (connections are not required to operate)

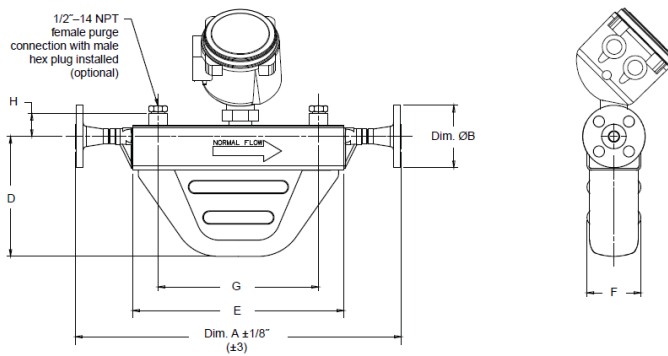
**Standard FID Injector include the following components:**

- 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:**

