

## IPCO FID Improver Fuel Conditioning Before the Engine

The IPCO FID Improver is installed in the circulation system before the engine to mechanically condition the fuel prior to injection. Using IPCO Power’s high-shear homogenization technology, comparable to a “coffee grinder for fuel”, the system improves fuel consistency and combustion stability.

By conditioning the fuel before injection, the FID Improver supports improved atomization, cleaner combustion, and more stable engine operation.



### Key Benefits

- Improves combustion stability
- Supports cleaner combustion
- Reduces soot and smoke formation
- Supports fuel efficiency improvement
- Improves fuel consistency before injection
- Mechanical treatment only — no additives required
- Designed for continuous 24/7 operation
- Suitable for conventional and biofuel operation

### How It Works

The IPCO homogenizer mechanically conditions the fuel before injection using high shear forces inside the homogenizing chamber. This creates a more uniform fuel condition, supporting improved atomization and combustion performance.

### Technical Features

- High-shear vertical homogenizer
- Aluminum 7075-T6 housing
- Proprietary hard-coat protection
- Magnetic coupling (no mechanical seals)
- Self-lubricating homogenizing chamber
- Suitable for HFO, VLSFO, ULSFO, MDO and biofuel blends
- Continuous-duty marine design

### Capacity and power:

Higher capacities are available on request  
*Systems can run 20% higher capacity for shorter time frames.*

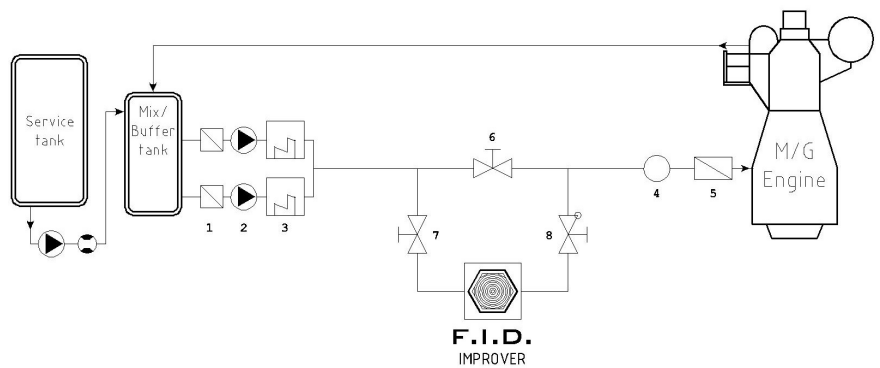
FID Type	Capacity l/h	Power kW
FID 015	1.500	4/4,8
FID 045	4.500	7,5/9
FID 090	9.000	11/13
FID 120	12.000	11/13
FID 300	30.000	22/27

## General Specifications

- Max pressure: 12 bar
- Minimum fuel temperature for HFO380: 50°C
- Power supply: 400V @ 50Hz / 460V @ 60Hz
- Control panel: 230V @ 50Hz / 250V @ 60Hz
- Protection class: IP54
- Flange connections: SAE flange  
(Counter SAE flange supplied with system)
- Paint system frame: RAL6018 (frame optional)

## Installation Position

Designed for installation in the circulation system before the engine.



## Dimensions:

**FID 045**

**FID 090**

**FID 120**

