

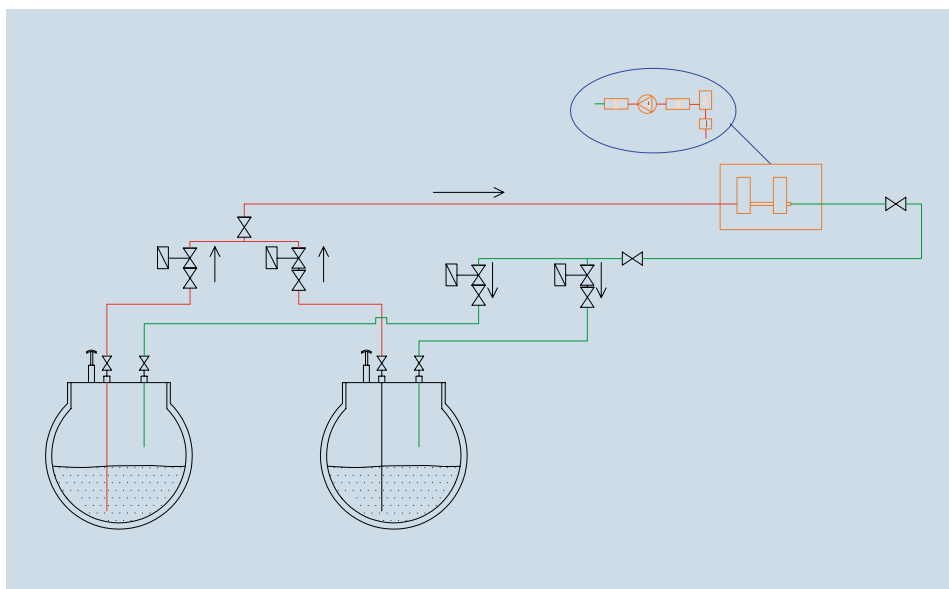
SAFA

Automatic Fuel Conditioning System for Multiple and Large Fuel Storage Tanks

Filtering System Basic Diagram

The SAFA automatic fuel conditioning system for particle filtration, water removal, fuel homogenization and oxygenation through its programmed recirculation protocol, prevents the proliferation of bacteria, molds and yeasts that are liable to damage the installation.

- The SAFA is a bespoke system, able to prevent fuel degradation in up to 6 storage tanks, from 1.000 liters till 100.000 each.
- Configured and equipped with all the necessary elements to control filtering protocol of existing tanks, it is designed in a scalable technique to allow future extensions of the fuel storage park.
- All manoeuvres and alarms are locally displayed at the LCD touchscreen, and remotely by mod-bus.



Accessories and adaptations

- Circulates and prevents fuel degradation inside storage tanks.
- Fuel is passed through a fuel conditioner to prevent microbial growth.
- The fuel is automatically distributed for a adjustable number of periods programmed by the operator. We recommend to ensure that the contents of the tank are recirculated at a rate of 1.5 times tank's capacity every 28 days.
- If water is detected in the decanting filter in the unit, it triggers an alarm and pump starts an automatic water drain process.
- The system is powered by 400 Vac triphase power supply (a version on 230 V are available under request) and comprises a double stage particle and water decanting filter, fuel conditioner, flow detector, flow failure display, timer.



Filtration stages:

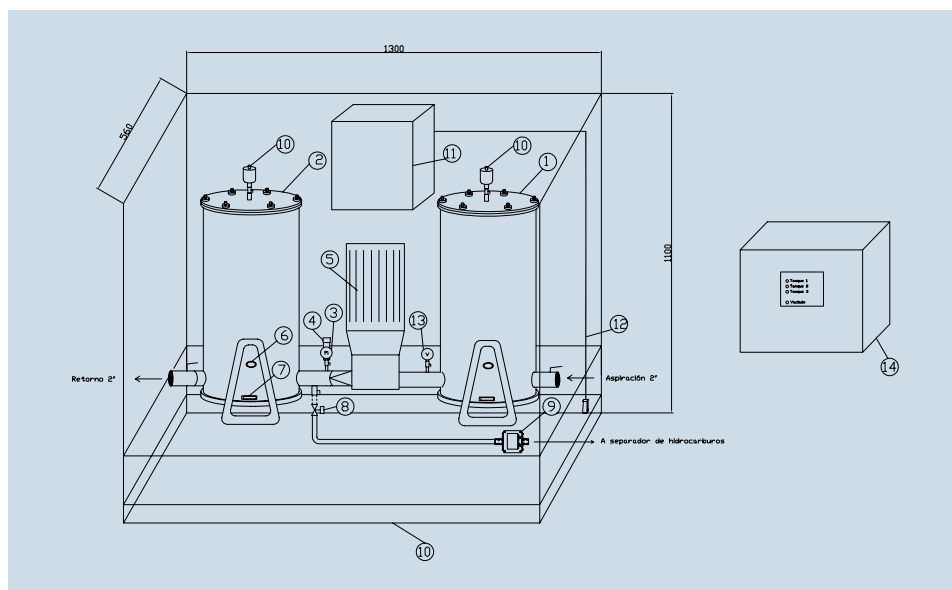
- 1) 0,1 mm particle filter
- 2) Water decanter
- 3) Fuel conditioner for microbial growth prevention
- 4) Fuel circulation pump (preventing degradation)
- 5) Fuel meter with pulser transmitter



This is a product suitable for projects.
See all Inpro project references here

- 1) 1. 1st Filter 50 microns
- 2) 2. 2nd Filter 15 microns
- 3) Pressure gauge glycerine
- 4) Analog Pressure switch 0-10 bar
- 5) Motorpump 1.500 l / h
- 6) Water viewer (electrode type)
- 7) Dirty filter warning
- 8) Water draining solenoid valve
- 9) Water draining pump
- 10) Automatic air vent
- 11) Junction box
- 12) Leak detector
- 13) Vacuum gauge
- 14) Control cabinet (600x600x200)
- 15) Flow meter with pulser
- 16) Fuel Conditioner

System Description



Automatic Fuel Polisher and Drain System

- 1.500 l / h motorpump III / 400 3/4 CV / 1,2A.
- Pressure sensor- linear.
- Vacuum gauge meter.
- Manometer glycerine 0-10 bar.
- Sampling cap.
- 2 Aluminium Microfilters FG-300 / 15-25
- 1 50 µm particle filter (micron).
- 1 second stage filter 15 µm (micron) water absorbent filtering paper.
- Water presence gauge.
- Differential pressure gauge, as clogged filter indicator.
- Sensors for water detection to start automatic water drainage.
- Solenoid-valve N/C 3/8 "drain line.
- Pump solenoid type 12 Lts / h drain line.
- Manual drain ball valves.
- Leak collecting tray, in metal, epoxy painted.
- Infrared leak detector.
- Metal cabinet in metal, epoxy painted.
- Sizes may change according special bespoke requirements.
- Maximum work pressure: 6 bar.
- Maximum system pressure: 10 bar.

LCD Touchscreen Display and Control Cabinet

- Software programmed PLC controller with touch screen.
- Analog and digital inputs and outputs (any required).
- Mod-Bus communication.
- Motor starters and thermal protection for motor pumps.
- 24Vdc power supply transformer.
- Connection terminals.
- System ready mounted with all bespoke necessary equipment, factory tested and ready to set up.
- Control cabinet IP66, in metal, epoxy painted with PLC controller display mounted at front panel.



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