



Alfa Laval Equipment Upgrades for Smit inert gas system – AFEM

Fuel-saving capacity control to reduce operating costs



Your Alfa Laval Smit Combustion (FU) inert gas system provides effective cargo safety, but its fuel efficiency is often possible to improve. Upgrading it with the Alfa Laval Automatic Fuel Efficiency Module (AFEM) can reduce its operating costs by up to 40%.

What we do

With the AFEM installed, your inert gas system will produce the exact amount of inert gas needed during offloading, rather than the usual fixed amounts set by your crew. Compared to manual control, the AFEM reduces fuel consumption by as much as 40%. As well as reducing emissions, this provides substantial cost savings for our customers with very quick payback times.

To ensure optimal performance, the AFEM is always installed and commissioned by an Alfa Laval service engineer.

Benefits

- Up to 40% reduction in fuel consumption
- Reduced vessel emissions
- Less maintenance and no periodic adjustments
- Rapid operation

Short payback time

When running an inert gas system at fixed capacity, one of our customers consumed 148 tonnes of fuel over a period of 18 months. After upgrading with the AFEM, calculations for this customer showed that automatic adjustment of fuel and combustion air would save a projected 68 tonnes – nearly 46%.

On request your local Alfa Laval Sales Company can provide a fuel saving estimate based on actual vessel operational information.

Scope of service

An Alfa Laval service engineer installs the upgrade kit and commissions the AFEM during your vessel's normal operation or dry docking. The job takes around three days and includes the following:

- Standard upgrade kit with everything needed for complete installation
- Installation of panels and components
- Modification of the existing inert gas system
- Full commissioning, testing and fine-tuning
- Crew instruction

Scope of supply

The AFEM upgrade is available for the following Alfa Laval Smit inert gas system:

- Alfa Laval Smit Combustion (FU) ≥ 2000 m³/h with manual capacity and oxygen control system
- Alfa Laval Smit Combustion (FU) ≥ 2000 m³/h with first generation automatic capacity control

The upgrade comprises the following components, installed as a module:

- PLC-based control panel
- Fuel oil pump motor and control panel
- Burner lance actuator
- Alfa Laval oxygen analyzer
- Burner oil supply line modification kit

A modified set of drawings is provided upon completion of the upgrade.

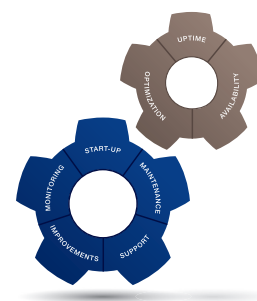


Other 360° Service Portfolio services for your equipment

- Alfa Laval Condition Audit for Smit inert gas system
- Alfa Laval Troubleshooting for Smit inert gas system
- Alfa Laval Training for Smit inert gas system
- Alfa Laval Spare Parts for Smit inert gas system

Extending performance with the Alfa Laval 360° Service Portfolio

Our extensive service portfolio offers all the services you need to ensure top performance, maximum uptime and operating efficiency from your Alfa Laval equipment throughout its life cycle. Our committed team's expertise and the availability of parts bring you peace of mind.



Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com.