



Alfa Laval

# FLEX Mode upgrade

For PureSOx

## Sail between compliance zones flexibly and cost-efficiently

If your Alfa Laval PureSOx system was configured specifically for ECA or global operation, moving between compliance zones poses challenges. An ECA-configured system uses more water and energy than necessary in global waters, while a globally configured system is non-compliant in ECA waters. Upgrading PureSOx with FLEX Mode lets your vessel move freely between compliance zones, with lower operating costs and no changing fuels.

Our service helps you with:

- Flexibility to switch between compliance zones
- No switching to compliant fuel
- Lower OPEX through either energy or fuel cost savings
- Reliable compliance wherever your vessel sails

## How it works

FLEX Mode lets your existing PureSOx system operate effectively at both global (0.5% fuel sulphur) and ECA (0.1% fuel sulphur) levels. If your vessel regularly moves between compliance zones, it brings significant savings. The FLEX Mode upgrade comes in two variants to match your existing PureSOx system configuration:

- **ECA FLEX**

- For ECA-configured PureSOx systems

- A system configured for ECA operation is globally compliant, but its performance is determined by the higher ECA demand. When operating in a global zone, it uses more water than required for compliance. This means unnecessary energy for pumping, as well as needless wear.

The upgrade adds a global compliance mode that reduces water flow by 15–25% in global compliance zones, which saves energy costs and reduces long-term maintenance.

- **Global FLEX**

- For globally configured PureSOx systems

- A system configured for global operation removes too little sulphur to comply in ECA waters. For ECA compliance, the vessel must switch to more expensive compliant fuel – rather than using the scrubber.

The upgrade adds an ECA compliance mode that uses a new set of parameters designed for ECA operation. A new Maximum Continuous Rating (MCR) is also calculated for the main engine in ECA waters. This lets the scrubber comply with the ECA demand, so the vessel can continue saving on fuel costs.

The upgrade must be carried out by an Alfa Laval Marine Service engineer while your vessel is in harbour or dry dock. Following a Global FLEX upgrade, a sea trial is needed. We recommend having our engineer conduct the sea trial as well.

## How the service can be delivered



On site



Remotely



At service centres



On board



In dry dock

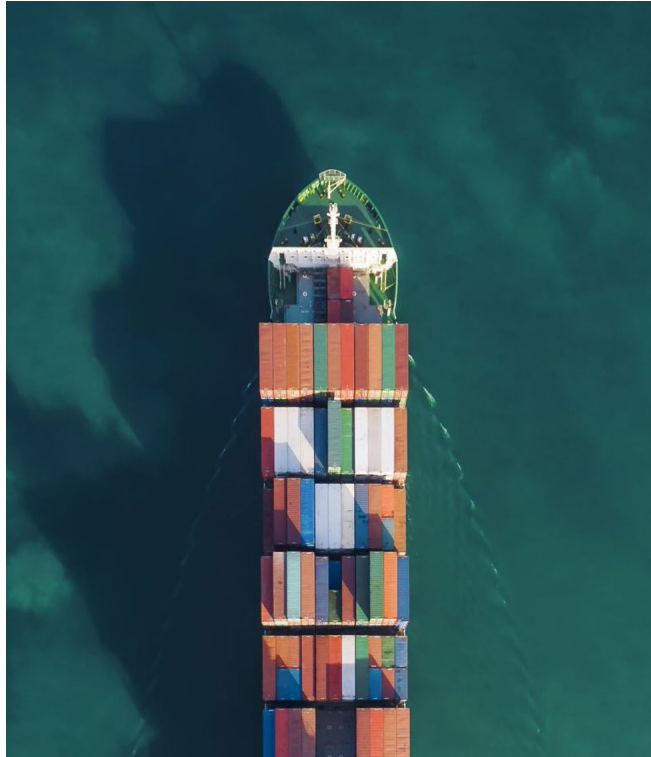
### Additional service details

We provide the following when upgrading your PureSOx system with FLEX Mode:

- **Materials and engineering**
  - Updated software
  - Statutory documentation
  - Calibration bottle\*
  - pH calibration set
  - Washwater sampling kit\*\*
  - Updated manuals
- **Service assistance**
  - Software installation
  - Update of settings
  - Update of ranges and calibration set points
  - Recalibration of gas analyser\*
  - Washwater lab analysis\*\*
  - Crew instruction
  - Sea trial\*\*

\* Only when upgrading an ECA-configured system with ECA FLEX Mode.

\*\* Only when upgrading a globally configured system with Global FLEX Mode.



### Other services for PureSOx

Condition Assessment

Annual gas analyser calibration

Exchange Programme: gas analyser module

Dry dock services

Energy Reduction Mode upgrade

### 24/7 Service & Support

With service centres, field service engineers and spare parts distribution worldwide, our Alfa Laval Marine Service network is always on the job for you. When you contact our 24/7 Service & Support, our service experts coordinate everything to solve your need – across oceans, continents and time zones.

Contact your local Alfa Laval office

[www.alfalaval.com/contact-us](http://www.alfalaval.com/contact-us)

