

Alfa Laval Viscochief 3

Oil viscosity control for fuel supply systems

Introduction

Alfa Laval Viscochief 3 is a stand-alone modular system for automated control of fuel oil viscosity. Suitable for internal combustion engines and all fuel oils meeting ISO 8217 specifications, it presents a unique opportunity to control multiple fuel parameters with a single system.

Application

Viscochief 3 can be used as an upgrade to an existing module or installed in the fuel supply system on a new build. It provides automated control over the fuel supply, ensuring a precise match between the fuel's viscosity and the engine maker's specifications.

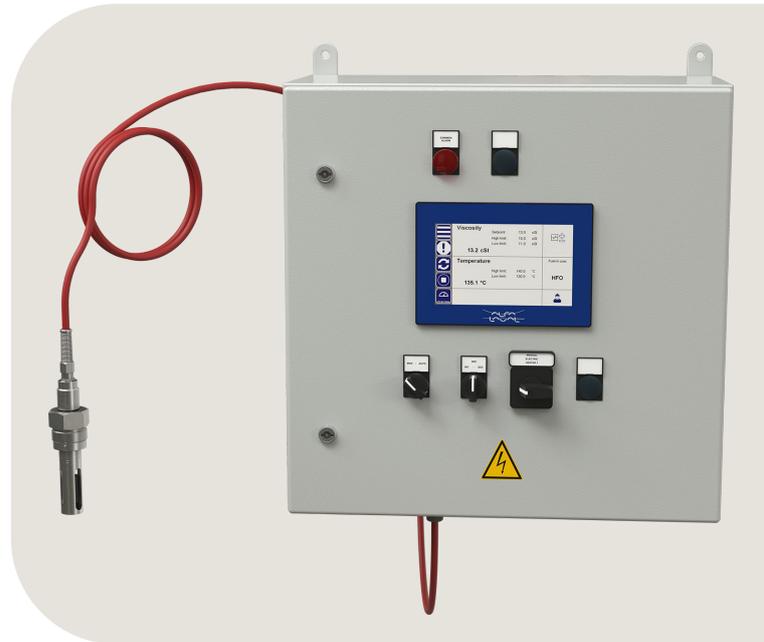
Viscochief 3 is capable of handling multiple fuels with different densities, and it safely manages a controlled changeover process between them.

Benefits

- Suitable for both upgrades and new fuel supply systems
- Automated control of both heating and cooling to meet dedicated viscosity set points for all the fuels in use – with only one cabinet
- Reduced engine wear thanks to efficient control of fuel parameters during changeover
- Intuitive touchscreen control and/or remote operation
- Unique potential to integrate additional modular control options

Product features

- Viscosity and temperature control
- Heater control (shell-and-tube, electric or their combination)
- Comprehensive logging of fuel process data
- Remote control via control panel, Modbus, Hardwired
- Heat tracing control
- Connectivity-ready
- Modular control options:
 - Automatic changeover control
 - Control of multiple fuels (up to four)
 - Cooler control



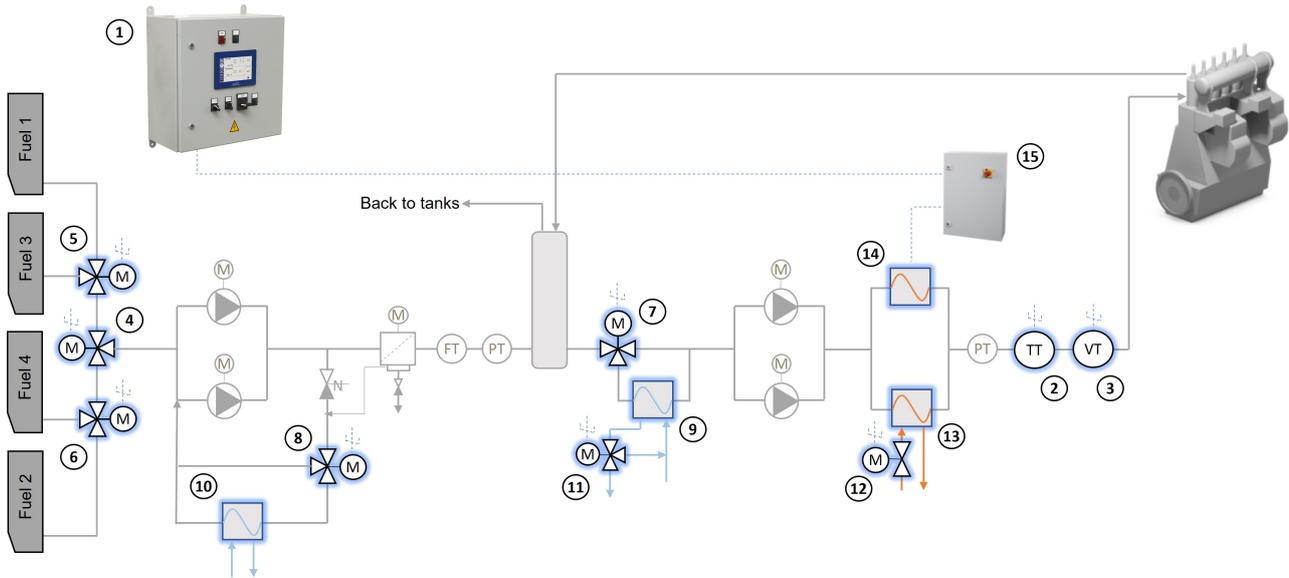
User interface

The HMI, integrated in the control panel, is an easy-to-use touchscreen interface.

- Compact design, robust and reliable
- 4.3" or 7" touchscreen display alternatives



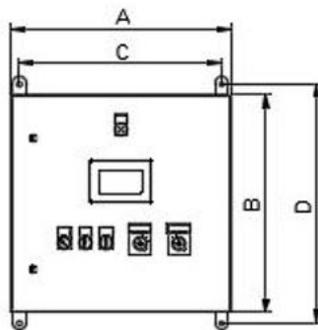
Typical system layout



Technical data

Main supply voltage	1-phase 110/230V AC
Electric heaters power supply	3x400/440/480/690V AC
Frequency	50/60 Hz
Design oil pressure	16 bar
Design oil temperature	150 °C
Viscosity range	0-50 mPa.s for fuel oil applications

Control cabinet dimensions



AXB (mm)	CXD (mm)
500 x 500	460 x 550
500 x 700	460 x 750

Equipment

Default configuration

1	Control cabinet	3	Viscosity transmitter
2	Temperature sensor		

Optional equipment

4	Changeover valve CV1	10	SPV Cooler
5	Changeover valve CV2	11	Cooling regulating valve CRV
6	Changeover valve CV3	12	Steam regulating valve SRV
7	Cooler valve CV4	13	S&T heater
8	SPV Cooler valve CV5	14	Electric heater
9	Cooler	15	Electric heater power unit

Certification



For all the other Class Societies, certification can be requested and approved.

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