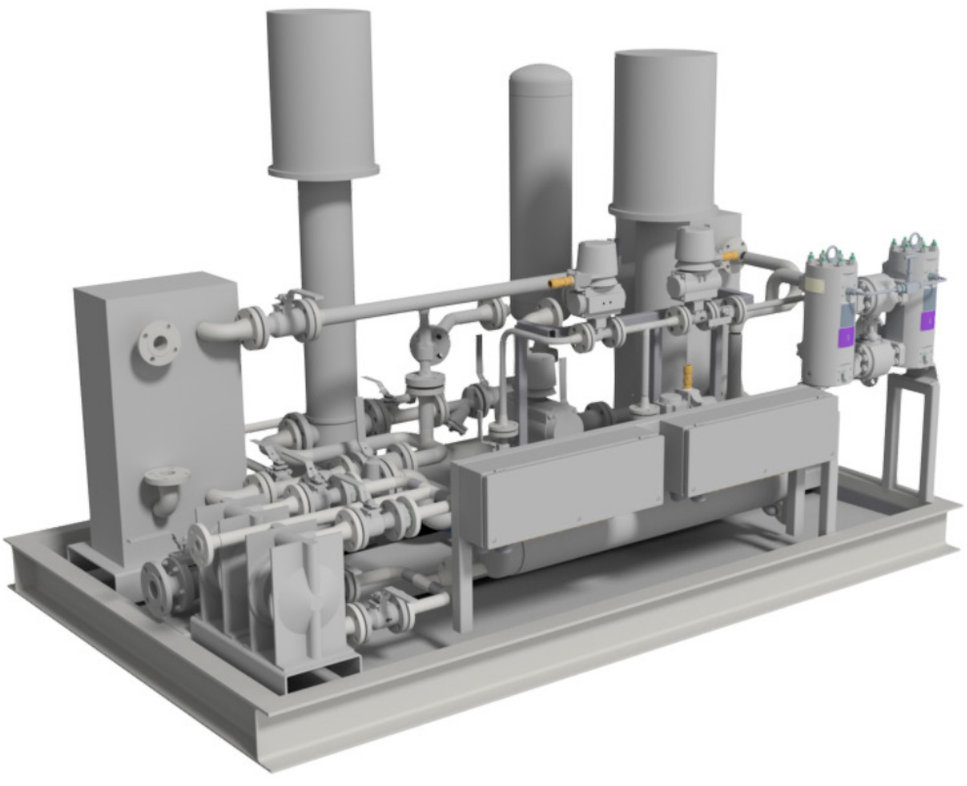
Eltronic
FUELTECH



Low-flashpoint Fuel Supply System for methanol fuel operation

The LFSS MeOH, a comprehensive Low-flashpoint Fuel Supply System, is engineered to manage the reception, conditioning, and delivery of methanol fuel from the tank to the engine through the Fuel Valve Train. This integrated system incorporates inlet-, pressure control-, temperature conditioning-, and filtration components into a cohesive package.

Utilizing a single pump stage technology, the LFSS MeOH ensures efficient fuel delivery to end consumers. Designed with precision, the unit guarantees safe and reliable delivery of fuel within engine specifications. The small footprint allows the integration of the LFSS into compact areas without sacrificing performance or functionality.

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Data Sheet

Description	LFSS MeOH (M5, M10, M20 & M30)			
Media Dimensioning	LFSS-M5	LFSS-M10	LFSS-M20	LFSS-M30
LFSS size	Inlet: 2,5" (DN65) Outlet: 1" (DN25) Purge & bleed line: ½" (DN15)	Inlet: 3,5" (DN90) Outlet: 1½" (DN40) Purge & bleed line: ½" (DN15)	Inlet: 5" (DN125) Outlet: 2" (DN50) Purge & bleed line: 1" (DN25)	Inlet: 6" (DN150) Outlet: 2,5" (DN65) Purge & bleed line: 1" (DN25)
Material in contact with media	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Media for engine	Methanol, MeOH	Methanol, MeOH	Methanol, MeOH	Methanol, MeOH
Media for purge	Nitrogen, N_2	Nitrogen, N_2	Nitrogen, N_2	Nitrogen, N_2
Nominal working pressure [PN]	1.300 kPa (13 bar)	1.300 kPa (13 bar)	1.300 kPa (13 bar)	1.300 kPa (13 bar)
Design pressure [PS]	1.600 kPa (16 bar)	1.600 kPa (16 bar)	1.600 kPa (16 bar)	1.600 kPa (16 bar)
Test pressue [PT]	2.400 kPa (24 bar)	2.400 kPa (24 bar)	2.400 kPa (24 bar)	2.400 kPa (24 bar)
Max. pressure hysteresis	50 kPa (0,5 bar)	50 kPa (0,5 bar)	50 kPa (0,5 bar)	50 kPa (0,5 bar)
Design flow	5.000 kg/h	9.975 kg/h	19.500 kg/h	29.500 kg/h
Maximum flow capacity	5.000 kg/h	9.975 kg/h	19.500 kg/h	29.500 kg/h
Minimum flow @ PS	0 kg/h	0 kg/h	0 kg/h	0 kg/h
Ambient temperature	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C
Fuel temperature inlet	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Fuel temperature outlet	+25°C to +50°C	+25°C to +50°C	+25°C to +50°C	+25°C to +50°C
Absolute filter fineness	10µm	10µm	10µm	10µm
Physical Dimensions				
Frame dimensions (WxDxH)	N/A	N/A	N/A	N/A
Supply				
Voltage supply	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%	Main power: 3 Ph 440 VAC ±10% Aux. power: 1 Ph+N 230 VAC ±10%
Voltage frequency	60 Hz ±10%	60 Hz ±10%	60 Hz ±10%	60 Hz ±10%
Power supply current consumption	Main power: 100 A Aux. power: 40 A	Main power: 100 A Aux. power: 40 A	Main power: 100 A Aux. power: 40 A	Main power: 100 A Aux. power: 40 A