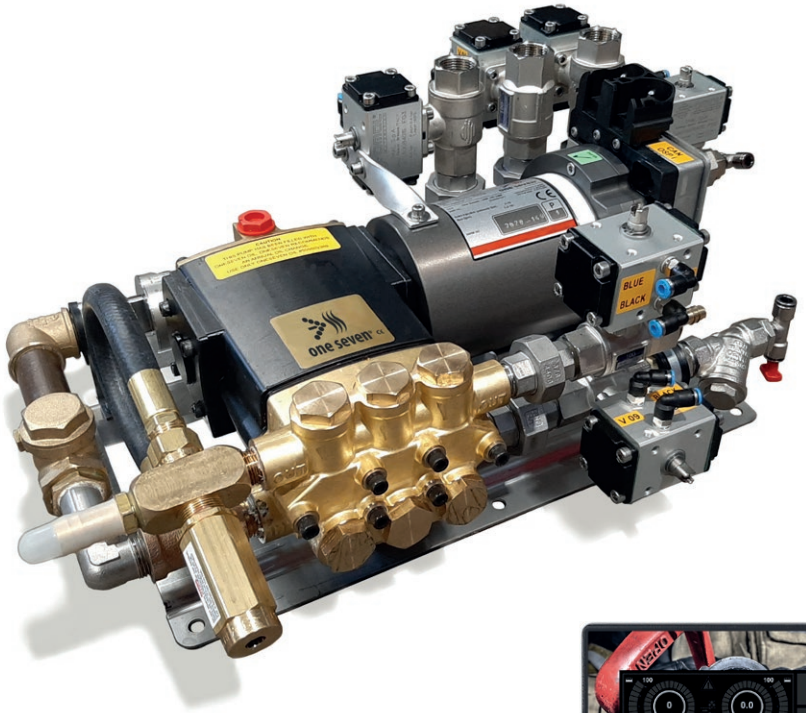
OSP-32i

ELECTRIC POSITIVE PRESSURE PROPORTIONING SYSTEM



DESCRIPTION

The One Seven proportioning system OSP-32i is an electrically driven pressure proportioning system to deliver and mix foam concentrate to water. It is a combination of two proportioning systems which are optimally matched to each other and provide the best performance results.

The foam concentrate is automatically metered on the basis of the set proportioning rate and the currently measured water volume flow. Deviations in the calculated delivery volume (e.g. due to viscosity changes caused by temperature fluctuations) are detected and automatically corrected by innovative sensor technology.

The colour display allows intuitive operation. The measured sensor data for system monitoring are also displayed here. If necessary emergency programs for all essential functions of the proportioning system can be started at the push of a button.

The flow rate is between 0.2 and 32 l/min. The suction height with external suction is up to 1.50 m. The integrated plunger pumps are suitable for all foaming agents approved for fire fighting up to a viscosity of 500 mPa*s.

Several optional extras are available for the OSP-32i. These include tank filling pumps, tank level indicators and changeover valves for up to three foam concentrate tanks to enable a quick change of foam concentrate classes during firefighting operation.

ADVANTAGES

- No calibration effort necessary
- Highly precise proportioning, even at lowest proportioning rates
- Highly accurate and reliable flow metering
- No manual adjustment necessary when foaming agent is changed
- Always constant, optimum proportioning rate, even when viscosity changes
- Quick restoration of operational readiness due to automatic priming, rinsing and drainage
- Most possible fail-safety, additionally covered by emergency programs

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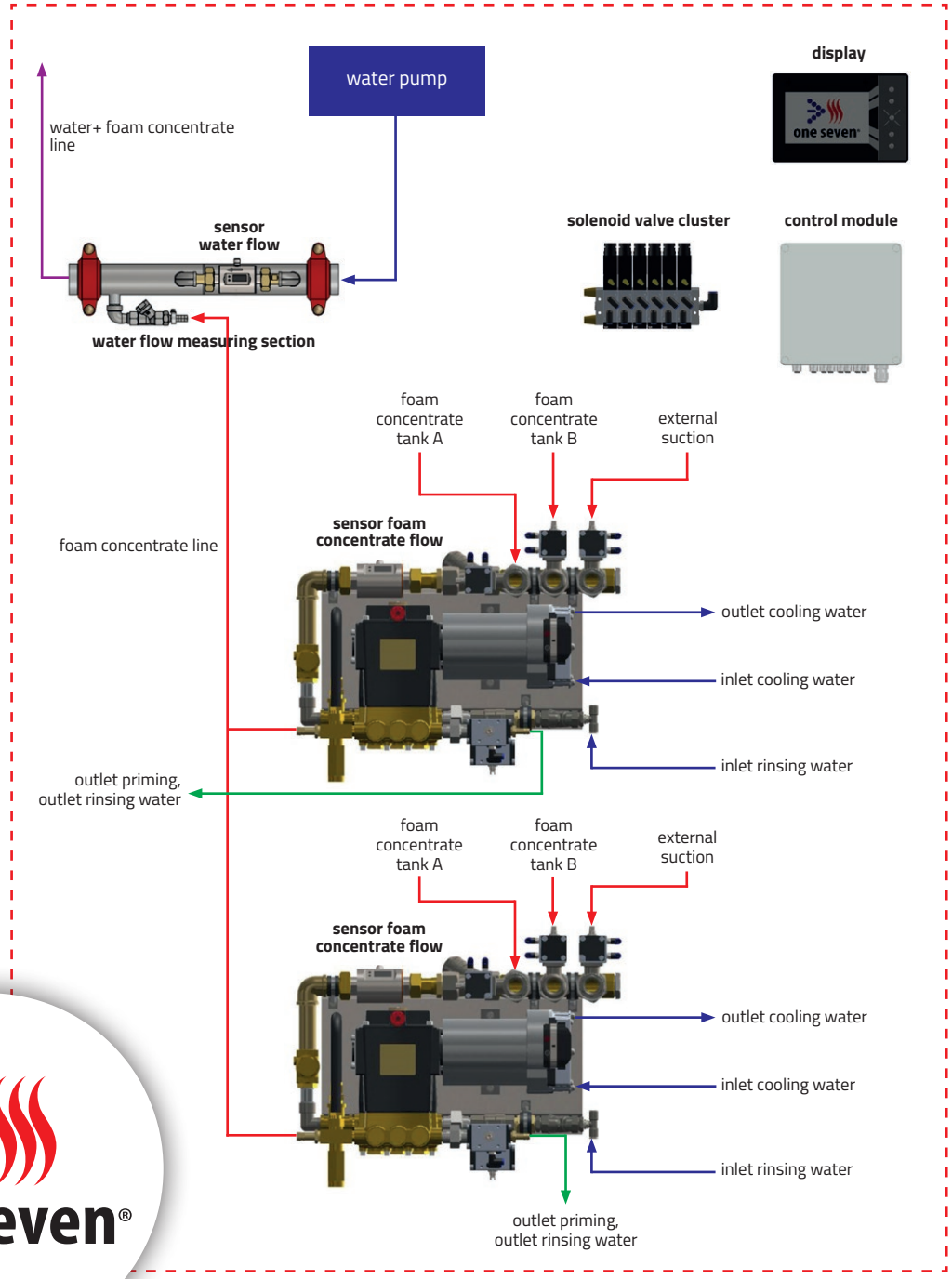

Schematic drawing includes optional equipment

TECHNICAL DATA

Standard	EN 16327 - PPPS 1600/0,1-2,0
Drive	(2) electric brushless synchronous motors 1 kW, CAN bus controlled, variable speed
Pump	(2) brass plunger pumps
Cooling	Water cooling
Lubrication	Oil
Working pressure	Max. 16 bar
Voltage	24 V DC
Power consumption [1]	Max. 80 A (at max. working pressure)
Water sensor	Magnetic-inductive flow meter, 50 ... 2,000 l/min
Foam concentrate sensor	(2) magnetic-inductive flow meters
Flow rate	0.2 ... 32 l/min at 10 bar
Proportioning rate	0.1 ... 9.9 %, steplessly adjustable
Weight	Ca. 40 kg
Dimensions (L x W x H)	Each 515 x 410 x 210 mm

[1] Dependent on type of foaming agent

CONNECTIONS

Foam concentrate inlet	(2) 25 mm hose connections
Foam concentrate outlet	(2) 13 mm hose connections
Rinsing inlet	(2) 8 mm hose connections (quick connectors)
Priming outlet	(2) 9 mm hose connections
Water cooling	(2) 8 mm hose connections (quick connectors)

OPTIONAL CONFIGURATION

Water sensor	▪ Magnetic-inductive flow meter, 15 ... 900 l/min ▪ Magnetic-inductive flow meter, 100 ... 3,200 l/min
Changeover for foam concentrate inlets	▪ For two (2) foam concentrate inlets ▪ For three (3) foam concentrate inlets
Tank filling pump	Connection of up to two (2) tank filling pumps
Tank level indicator	Connection of up to two (2) tank level indicators
Intensive rinsing	Additional rinsing connection at the changeover valve

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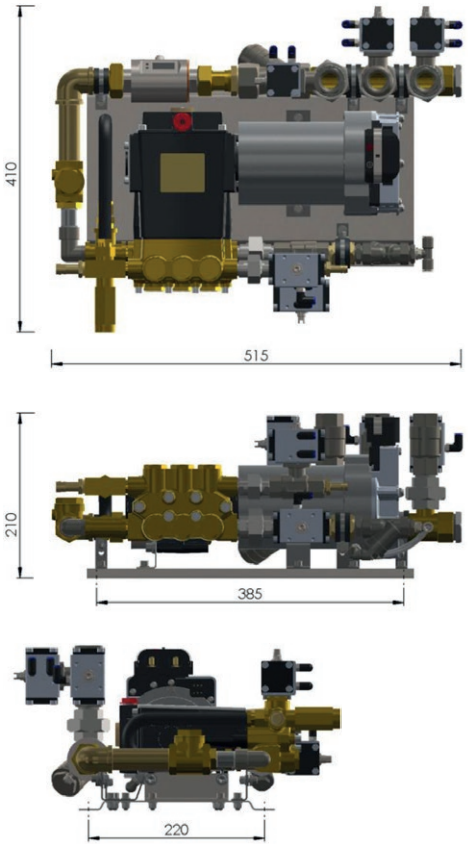
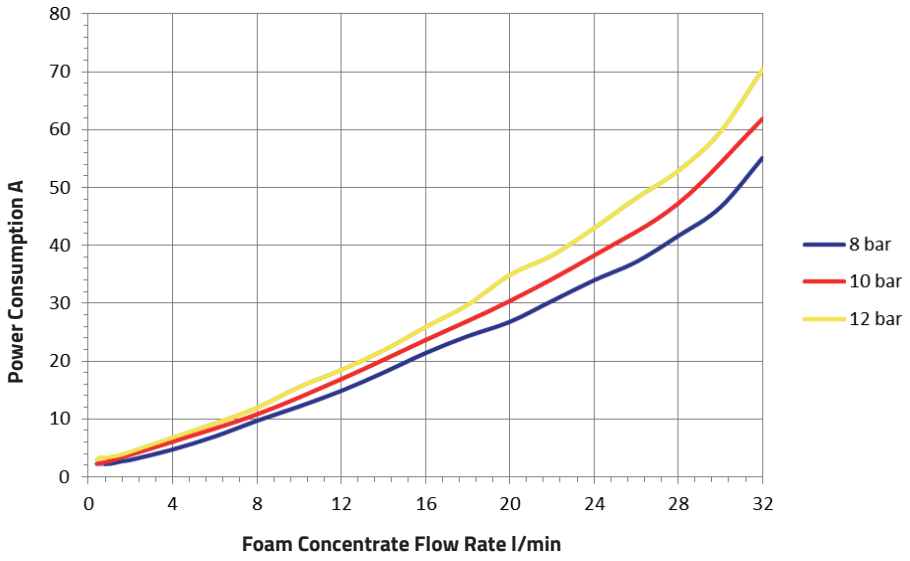
DIMENSIONS

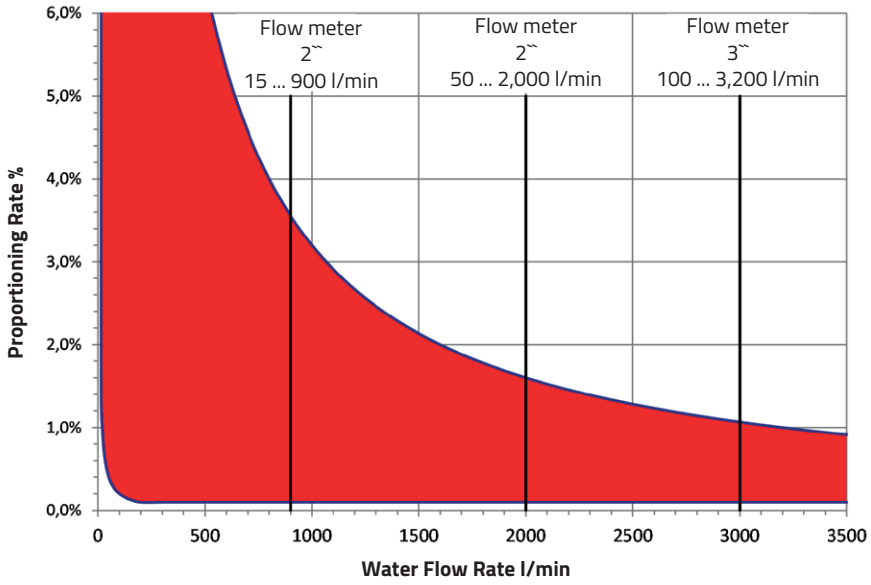


Drawings show dimensions of just one of the two proportioners
Drawings show configuration with three foam concentrate inlets

POWER CONSUMPTION



PERFORMANCE



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