

APPLICATION

Oil-water-separators of the CSQ series are powerful and treat accumulating condensate according to the principle of active separation. Thanks to a modular design, our CSQ can be scaled as required and adapted to all demands in a cost-efficient manner. Maintenance can be carried out quickly, cleanly and also ergonomically.



FEATURES

Our CSQ oil-water-separators consist of a pressure relief chamber with a condensate inlet and integrated activated carbon odour trap, a reservoir incl. measuring chamber, a downstream distributor as well as cartridges with a plastic housing. The latter stand on a plastic base plate that functions as a collector.

The cartridges are composed of a condensate inlet, two sieves, pre-filter and main filter and a self-closing valve followed by a condensate outlet. CSQ, unlike conventional oil-water separators, do not use the gravity principle to separate oil and water, but use a small amount of control air for a new mode of operation.

The condensate is forced through the cartridge, which is constantly filled with liquid, using compressed air. Drying out and the formation of impermeable layers do not occur. Unwanted microbiological cultures hardly ever form.

Closed cartridges allow replacement without tools and without direct contact with the condensate during servicing. The cartridges do not exceed their maximum weight of 25 kg when saturated at any time and thus offer an ergonomic, low load for the service personnel.

Cartridges and their base plates are modularly expandable and can therefore be adapted dynamically and precisely to the prevailing requirements without much effort.

In addition, CSQ oil-water-separators are equipped with a control unit. It can be operated intuitively and displays information on the service status, fill level or even alarm notifications. Operating data can be retrieved via MODBUS RS485 or TCP/IP. In general, the functional unit is network-compatible (MODBUS) and can thus be easily integrated. Furthermore, the service interval is calculated so that service calls can be planned easily.

If there is an alarm message, the CSQ oil-water-separator can continue to function as a gravity separator.

All models have a type approval from the DiBT (Deutsches Institut für Bau-technik) and are therefore not subject to any additional approval by the relevant authorities (see Ü mark and type plate on the oil-water-separator).

CSQ Oil-Water-Separator

Product data sheet

Product data sheet

CSQ OIL-WATER-SEPARATOR

BASIC DATA

Type	Nominal volume flow (VN) ^{*1}	Nominal condensate volume	Max. operating pressure	Min./Max. operating temperature	Power Supply
CSQ-P10	600 m ³ /h	12,7 litre	16 bar	+5°C - +50°C	90–264 VAC / 50–60 Hz
CSQ-P15	900 m ³ /h	19,0 litre			
CSQ-P30	1800 m ³ /h	38,0 litre			
CSQ-P60	3600 m ³ /h	76,0 litre			
CSQ-P90	5400 m ³ /h	114,0 litre			

DIMENSIONS, CONNECTIONS AND WEIGHTS

Type	Connections condensate inlet	Connection water outlet	Connection control air	Height	Width	Depth	Net weight
CSQ-P10	2x G½"/1x G1"	G ½"	8 mm	1482 mm	625 mm	540 mm	16 kg
CSQ-P15	2x G½"/1x G1"	G ½"	8 mm	1482 mm	744 mm	540 mm	16 kg
CSQ-P30	2x G½"/1x G1"	G ½"	8 mm	1482 mm	790 mm	790 mm	35 kg
CSQ-P60	2x G½"/1x G1"	G ½"	8 mm	1482 mm	899 mm	810 mm	45 kg
CSQ-P90	2x G½"/1x G1"	G ½"	8 mm	1482 mm	1234 mm	790 mm	67 kg

PURITY CLASSES ACC. TO ISO 8573-1

Contamination	Control air
Particles	Class 2
Humidity	Class 4
Total oil content	Class 2

We recommend the use of a FCA25XNF pre-filter upstream of the control air inlet.

MATERIALS

Part	Material
Filter cartridge	Synthetic material mix / Cellulosic fibres
Control unit	Synthetic material mix / Electronics
Pressure relief chamber	PE (Polyethylene)
Condensate inlet	PA (Polyamide) / PP (Polypropylen)
Measuring chamber	
Purified water container	PE (Polyethylene)
Stand	
Collector	

MAINTENANCE RULES

Maintenance	Interval
Turbidity control of the waste water and documentation of the result	– Weekly
Change filter cartridge	– Mandatory if turbidity test result is positive – Maximum service life of the filter cartridges reached – At least annually
Change magnet valves	– Maximum service life of the magnet valves achieved
Change piston	– As part of the troubleshooting
Cleaning of assembly group	– Weekly
Safety test and Leakage test	– Recommendation: After assembly or maintenance work on the product

SIZING



	Region	CSQ-P10	CSQ-P15	CSQ-P30	CSQ-P60	CSQ-P90
Maximum compressor capacity in m ³ /min	North America	12,1	18,1	36,3	72,4	108,7
	Europe/Africa/Asia	10,3	15,4	30,9	61,7	92,6
	South America/Australia	9,0	13,4	26,9	53,8	80,7

TECHNICAL DRAWINGS
