



CSJ
Oil/Water Separator



APPLICATION

When the ambient air is compressed, considerable amounts of impurities and hydrocarbons are also compressed, regardless of the design of the compressors. This process produces considerable amounts of condensate which, according to environmental protection regulations, must not be discharged into wastewater or surface water.

The oil-water separators of the CSJ series are used to treat the compressed air condensate.

The largest part of the condensate is water. This is where the CSJ comes in, by reducing the oil content of the condensate to such an extent that it can be disposed of via the sewer.

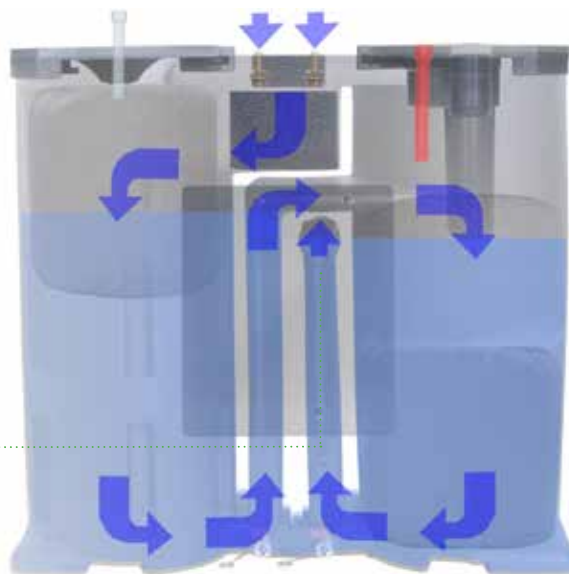
The disposal of hazardous, industrial waste is associated with high costs! Thanks to treatment by the CSJ, the condensate can be fed into the waste water in an environmentally friendly and cost-effective way.

The condensate is treated in the CSJ in such way that it can be easily disposed of via the sewage system.

FUNCTION

The CSJ uses the two-container principle. These two tanks contain high-performance elements, each consisting of two polypropylene fibre elements and one activated carbon element.

The condensate is discharged as it flows through the CSJ through filtered through the various high-performance filter elements. In the process, the contaminating components, especially the oil, are gradually removed.



Following this process, the oil remains permanently bound in the high-performance filter elements. Due to the multi-stage arrangement of the filter stages, a residual oil content of <math>< 10 \text{ mg/m}^3</math> can be ensured even with emulsified condensates.

ADVANTAGES

One advantage of the product is that it has been approved by **DIBt (Deutsches Institut für Bautechnik)**. This means that no further approval is required at the installation site and the CSJ can be used easily.

The saturation of the high-performance filter elements is indicated by a float indicator. If the indicator in the separator disappears, it is necessary to change the high-performance filters.

The high-performance elements ensure reliable binding of oil and particles. The modular arrangement of the high-performance filter elements further enables an ergonomically simple change.

Opposite to conventional oil/water water separators, it is no longer necessary to dispose of the oil via a collecting pan, as the oil is almost completely adsorbed by the filter elements.



The high performance elements enable the cost efficient separation between water and oil.



visual indicator

- monitoring of the separator at a distance possible

High efficiency absorbents

- highest adsorption capacity, thereby reliable operation
- ergonomically simple change of the elements



Approval by DIBt
(German institute for constructional engineering)

- complies with legal requirements
- no additional acceptance at the installation site necessary



Resid. oil content <10 ppm

- The treated condensate can be discharged into the normal waste water cost-effectively



Discharge valve for complete maintenance

- simple discharge of both vessels
- Enables routine maintenance and cleaning of the containers

SERIES

CSJ

Volume flow: up to 3.600 m³/h

Connection: G 1/2

BASIC DATA

Size	max. compressor capacity	min./max. operating pressure	min./max. operating temp.	max. oil adsorption	inlet	outlet	test valve
CSJ2	120 m³/h	-----	1 °C - 55 °C	2 l	½"	½"	yes
CSJ3.5	210 m³/h			4 l	½"	½"	yes
CSJ5	300 m³/h			5 l	½" (2)	1"	yes
CSJ10	600 m³/h			10 l	½" (2)	1"	yes
CSJ20	1200 m³/h			15 l	½" (2)	1"	yes
CSJ30	1800 m³/h			25 l	½" (2)	1"	yes
CSJ60	3600 m³/h			50 l	½" (2)	1"	yes

MAINTENANCE GUIDELINES

Maintenance interval and maintenance work	
ALLE SIZES	<ul style="list-style-type: none"> depending from ambient conditions (place of installation) as well as from installed components (e.g. fridge dryer implemented yes or no) therefore no general statemetn on maintenance intervals possible the visual indicator on the oil/water separator makes it easy to see when maintenance is necessary

PRODUCT SPECIFIC CHARACTERISTICS

Key figures	
Resid.oil content	< 10 ppm

MATERIALS

Component	
Vessel	PE (polyethylene) [CSJ2 ABS]
Filter	PP (polypropylene), activated carbon



DIMENSIONS AND WEIGHTS

Type	Height	Width	Depth	Weight
CSJ2	245 mm	255 mm	230 mm	3 kg
CSJ3.5	385 mm	396 mm	240 mm	6 kg
CSJ5	610 mm	580 mm	190 mm	10 kg
CSJ10	750 mm	650 mm	240 mm	20 kg
CSJ20	900 mm	780 mm	305 mm	30 kg
CSJ30	900 mm	970 mm	380 mm	43 kg
CSJ60	1040 mm	1160 mm	480 mm	74 kg

GUIDELINES

Type	
ALL SIZES	<p>For Germany only: DiBt type approval (see Ü-mark and type plate on the oil/water separator) Federal Water Act (WHG) Waste Water Ordinance (AbwV) Water laws of the federal states</p>
ALL SIZES	<p>Waste code number according to the List of Wastes Ordinance (AVV)</p> <p>Filter:</p> <ul style="list-style-type: none"> 15 - packing waste, adsorbents, wipes, filter materials and protective clothing (n.e.c.) 15 02 - adsorbents and filter materials, wipes and protective clothing; 15 02 02 adsorbents and filter materials (incl. oil filter n.e.c.), wipes and protective clothing, which are contaminated. <p>Oil** (from oil can):</p> <ul style="list-style-type: none"> 13 - oil wastes and wastes from liquid fuels (except edible oils and oil wastes mentioned in 05, 12 and 19) 13 02 - waste from machines, gear and lubricating oils 13 02 05 - non-chlorinated machine, gear and lubricating oils based on mineral oil 13 02 06 - synthetic machine oil, gear and lubricating oils <p>Oil sludge** (from sedimentation stage):</p> <ul style="list-style-type: none"> 13 - oil wastes and wastes from liquid fuels (except edible oils and oil wastes mentioned in 05, 12 and 19) 13 05 - contents of oil/water separators 13 05 02 - Sludge from oil/water separators

** - may vary according to customer. Contact the manufacturer or trading partner of the oil or refer to the safety data sheet.