

Oil water separator

ecosep S



Proven Security

Industry is now required to be responsible for the treatment of oily compressor condensate. The consequences for not doing so are severe fines or even imprisonment.

Parker Zanders ecosep S and the ecodrain automatic drain, offer compressed air users a complete condensate management system.



Water authorities insist on low levels of oil pollution in waste water. Figures of 20 mg/l are common but in some places the requirements are as low as 10 mg/l. In this way the environment is protected for the future.

The ecosep S offers the compressed air user the security of knowing that they will be meeting the strict requirements for waste water pollution. The new range is the result of long experience and thousands of users around the world.

On site purification is cheaper

Compressed air condensate generally has far more oil than 20 mg/l. The user has two possibilities. Firstly, he can have the condensate taken away by a specialist waste disposal firm at great

cost. Alternatively, the user can process the condensate on site by separating the oil and the water, which forms the largest proportion.

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Reduce costs

It is far cheaper to process compressor condensate with an ecosep S than to use a waste disposal firm or risk a large fine. The modular construction of the ecosep S means that the unit is economical to buy and run. It pays for itself in peace of mind and cost savings.

User benefits of the ecosep S

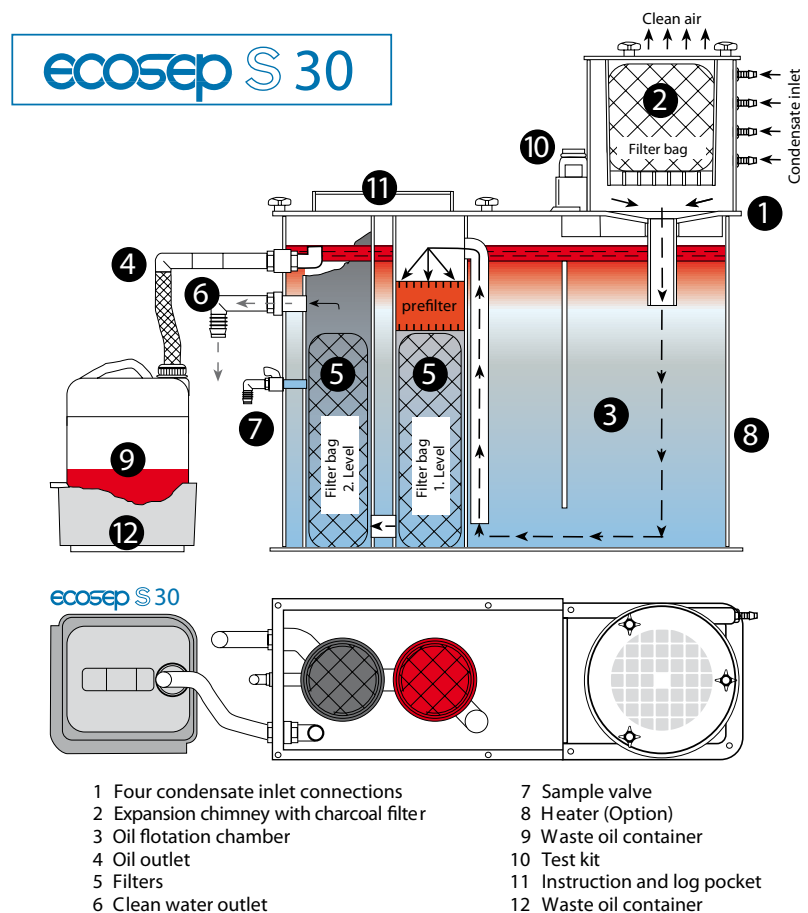
The units are designed for easy use and maintenance.

- Approval by Berlin Building and Construction Institute.
- An even more effective separation capacity has been achieved with tests according to DIN 1999
- Four inlet connections for condensate.
- Integration of a pre filter before the activated carbon bag ensures a longer service life and helps prevent overloading of the activated carbon (ecosep S15 - S61).
- Larger capacity gives greater security.
- Standard supply is a two phase test for the safe control of the purified condensate. (Test valve)
- Waste oil container with overflow protection.
- Pocket for operating and maintenance instructions and log book.
- Ecosep S has been officially TÜV-tested.
- Can be installed outside when fitted with optional heater.
- Eight sizes up to 70 m³/min 2400 cfm FAD.

Effective Separation

The operation of the ecosep S is simple and effective. The condensate enters into the expansion chimney where the air expands to atmosphere through a filter which holds back the aerosols. The oily condensate flows into the oil flotation chamber where a mechanical separation takes place. The oil particles float to the top and form a film on the water. The oil flows over an adjustable weir into a container which is supplied. The water then flows through a pre filter, followed by the activated carbon, which takes out the fine particles of oil.

This three stage separation is sure and efficient. With correct sizing of the ecosep S it is possible to achieve an oil content, in water of 10 mg/l or below which can be discharged into the effluent system.



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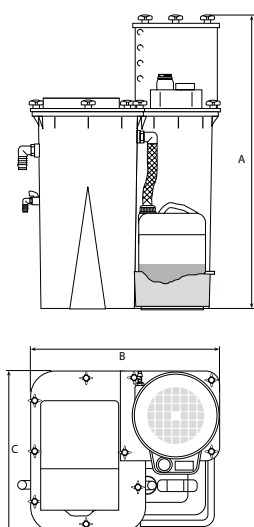
Technical data

Type	Compr. capacity up to max. m ³ /min*	Vessel volume l	Weight unfilled kg	Dimension			Connection thread incl. hose connector	
				A mm	B mm	C mm	Inlet	Outlet
ecosep S mini	1.2	14	9	610	285	285	4 x G 1/2"	G 1"
ecosep S 1	2	22	15	650	430	325	4 x G 1/2"	G 1"
ecosep S 2	3	40	15	908	437	325	4 x G 1/2"	G 1"
ecosep S 4	5	74	22	965	600	380	4 x G 1/2"	G 1"
ecosep S 8	8	120	25	965	620	520	4 x G 1/2"	G 1"
ecosep S 15	15	160	28	1.160	620	520	4 x G 1/2"	G 1"
ecosep S 30	30	230	55	1.160	850	520	4 x G 1/2"	G 1"
ecosep S 61	70	790	90	1.450	1.300	1.000	4 x G 1/2"	G 2"

* m³/h FAD referring to 1 bara +20°C/DIN/ISO 7183. Capacity given for oilflooded screw compressors using non emulsified oil. For other types of compressors and oils please see below.

Compressor Type	Compressor Capacity in m ³ /min																							
	Screw compressor								Rotations compressor oil floated								Piston compressor single and two stage							
	mini	1	2	4	8	15	30	61	mini	1	2	4	8	15	30	61	mini	1	2	4	8	15	30	61
Turbine Oil	1.2	2.0	3.0	5.0	8.0	15.0	30.0	70.0	1.2	2.0	3.0	4.0	6.0	11.0	25.0	60.0	0.6	1.0	1.5	2.0	4.0	9.0	20.0	30.0
VCL-Oil	0.8	1.6	2.0	3.0	4.5	8.0	20.0	50.0	0.6	1.0	2.0	2.0	2.0	5.0	15.0	50.0	0.4	0.7	1.0	-	-	-	-	-
VDL-Oil	0.8	1.6	2.0	3.0	6.0	10.0	25.0	60.0	0.6	1.0	2.0	3.0	2.5	8.0	18.0	50.0	0.4	0.7	1.0	2.0	3.0	6.0	11.0	30.0
Synthetik Oil	0.8	1.6	2.0	3.0	3.0	4.0	18.0	40.0	0.8	1.0	2.0	3.0	1.8	2.0	10.0	40.0	0.4	0.7	1.0	2.0	2.5	3.5	7.0	30.0

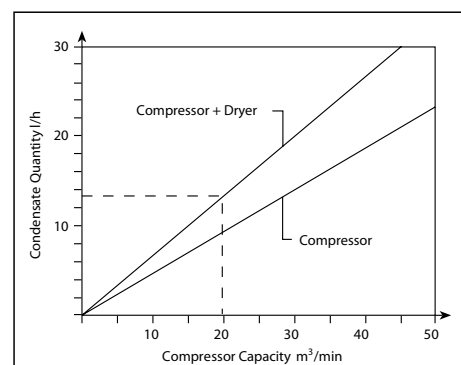
Oil water separators are only suitable for non-emulsified compressor condensates.



How much condensate?

Example: The condensate produced by compressor with an inlet temperature of 20°C and a relative humidity of 70°C, pressure 8 bar.

Compressor Capacity: 20 m³/min (700 cfm.)
Working time: 10 hours a day
 20 days a month
Condensate Quantity: 13.5 litres an hour
 135 litres a day
 2700 litres a month



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