

OWS 25 - 5300 - Oil water separators

Features & Benefits

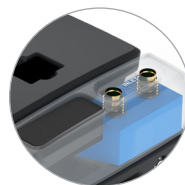
- ▶ Stable and reliable performance for weak as well as stable emulsions thanks to patented dual stage filtration technology
 - Filtering all types of condensate
 - No risk of spillage thanks to large capacity chamber design
- ▶ Eliminating all potential health issues
 - No standing or stagnant water
 - Optional anti-bacteria kit
- ▶ Accurate and quick indication of filter replacement thanks to saturation indicator
- ▶ Overflow indicator signalizes if the emulsion is flowing too quickly through the media
- ▶ DIBT certified
- ▶ Hassle-free maintenance with genuine service kits
- ▶ Optimized serviceability
 - Easy to remove first stage filtration bags
 - 2nd stage filter cartridge adapted from outside for easy exchange
 - Built-in wheels for larger cartridge for easy transport

General Specifications

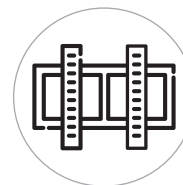
- ▶ Service interval 4000 hours
- ▶ Oil water separator
- ▶ Clean wastewater with oil content at the outlet at just 10ppm, and the possibility of going to as low as 5ppm depending on the set-up
- ▶ Flow range at mild ambient conditions: 43-8998 m³/hr/25-5296 cfm
- ▶ Standard version with activated carbon for unstable emulsions such as those containing mineral oil
- ▶ Organoclay version for stable emulsions with synthetic oil as well as for polypropylen based lubricants



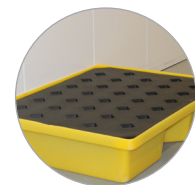
Options



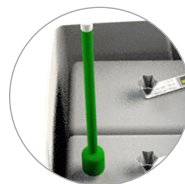
Multiple inlet manifold



Wall mount brackets



Spill container



Photoelectric sensor

Pneumatech offers with the new OWS generation a patented way to turn oily condensate from mineral oil, synthetic oil as well as polypropylene based lubricants into harmless water that can be drained away, while capturing the oil to be easily disposed of in an environmentally friendly manner. The multi-stage separation process, using both buoyant oleophilic filters and activated carbon/organoclay ensures exceptional performance, lower disposal costs and trouble free operation.

The OWS range eliminates oil through multi-stage filtration rather than the conventional gravity systems which have limitations on the type of condensate that can be treated. As a result, the OWS separator capacity is not linked to the type of emulsion collected since. The OWS range also eliminates stable emulsions by using organoclay cartridge in the second filtration stage.

Technical specifications for OWS 25-5300											
Installation Type	Pneumatech Variant→ Specifications ↓	Units	OWS 25	OWS 53	OWS 106	OWS 180	OWS 360	OWS 636	OWS 1325	OWS 2650	OWS 5300
Complete installation ⁽¹⁾ with Dryer ⁽²⁾	Cold Climate ³	m ³ /hr ⁽⁶⁾	58	119	241	407	817	1440	2999	5998	11995
		cfm ⁽⁶⁾	34	71	141	240	480	848	1766	3532	7065
	Mild Climate ⁴	m ³ /hr ⁽⁶⁾	43	90	180	306	612	1080	2250	4500	9000
		cfm ⁶	25	53	106	180	360	636	1325	2650	5300
	Hot Climate ⁵	m ³ /hr ⁽⁶⁾	22	43	86	148	299	526	1094	2189	4378
		cfm ⁽⁶⁾	13	26	52	88	175	309	645	1289	2578
Complete installation ⁽¹⁾ without Dryer ⁽²⁾	Cold Climate ³	m ³ /hr ⁽⁶⁾	72	151	299	511	1019	1800	3751	7499	15001
		cfm ⁽⁶⁾	42	88	133	300	601	1060	2208	4417	8833
	Mild Climate ⁴	m ³ /hr ⁽⁶⁾	54	112	227	382	767	1350	2812	5627	11250
		cfm ⁽⁶⁾	32	66	133	225	451	795	1656	3313	6625
	Hot Climate ⁵	m ³ /hr ⁽⁶⁾	32	61	122	205	410	724	1512	3020	6041
		cfm ⁽⁶⁾	18	36	71	121	242	427	890	1779	3558
Connections		inlet (BSP/NPT)	1x1/2"	2x1/2"	2x1/2"	2x3/4"	2x1/2"	2x3/4"	2x3/4"	2x3/4"	-
		outlet (BSP/NPT)	1x1/2"	1x1/2"	1x1/2"	1x3/4"	1x1/2"	1x3/4"	1x3/4"	1x1"	-
Dimensions	Length	mm	470	680	680	750	750	945	945	945	-
		inch	18,5	27	27	30	30	37	37	37	-
	Width	mm	165	255	255	546	546	650	695	1185	-
		inch	6,5	10	10	21,5	21,5	26	27	47	-
	Height	mm	610	762	762	889	1041	1092	1092	1092	-
		inch	24	30	30	35	41	43	43	43	-
	Weight	kgs	4	13	15	25	26	28	30	60	-
		lbs	9	29	33	55	57	62	66	132	-

Reference conditions
 Relative air humidity: 60%
 Air inlet temperature: 25°C (77°F) Running hours per day: 12 hrs
 Effective working pressure: 7 bar (102 psi)

Note: Capacity is based on the compressor running at 7 barg / 100 psig for 12 hours per day, with all condensate from the compressor, the air receiver, the filters and fridge dryer being piped into the unit.

Correction factors							
Relative humidity	%	0.5	0.6	0.7	0.8	0.9	-
	Correction factor	1.10	1.00	0.85	0.74	0.66	-
Ambient temperature	°C	15	20	25	30	35	40
	Correction factor	1.33	1.17	1.00	0.76	0.50	0.30
Running hours per day	hrs	12	18	24	-	-	-
	Correction factor	1	0.88	0.75	-	-	-

ECOBX 2 - 4 - Oil water separators

Features & Benefits

- ▶ Excellent performance
 - 2-stage filtration with advanced adsorption media
 - After separation, water contains oil levels below 15 ppm⁽¹⁾
 - Emulsion treatment possible (on request)
- ▶ Eliminating potential health issues
 - No standing or stagnant water
- ▶ Plug-and-play installation and service
 - Connection points at inlet
 - Compact footprint
 - No pre-soaking required
- ▶ Time-based service indicator and sampling kit (standard) to verify outlet concentration on a regular base.



Options



Extra 4 port kit

Pneumatech extends its cost-competitive ECOBOX condensate cleaning solution with 3 more models, up to 1400 m³/hr. The models are designed according to the same success factors: reliable double adsorption with recycled glass media, compact footprint, and easy installation and service.

Additionally the ECOBOX 2 - 4 has 4 connections points at the inlet; and a sample test point at the outlet.

Technical specifications for ECOBOX 2-4				
		ECOBOX 2	ECOBOX 3	ECOBOX 4
Maximum rated flow - normal climate ⁽²⁾	l/s	53	158	389
	m ³ /hr	190	570	1400
	cfm	112	335	824
Connections	Inlet	4 x 12mm	4 x 12mm	4 x 12mm
		4 x 1/2"	4 x 1/2"	4 x 1/2"
	Outlet	12mm	20mm	20mm
		1/2"	3/4"	3/4"
Weight	kg	2,7	3,6	14,8
	lbs	6,0	7,9	32,6
Dimensions	Length (mm)	215	345	432
	Length (inch)	8,46	13,58	17,01
	Width (mm)	257	282	495
	Width (inch)	10,12	11,10	19,49
	Height (mm)	500	654	989
	Height (inch)	19,69	25,75	38,94
Service life for filter ⁽³⁾		4,000 Operating Hrs	4,000 Operating Hrs	4,000 Operating Hrs

- 15ppm is generally well below the acceptance level for disposal in the sewage, but due to strongly varying international and local regulations, it is the user's responsibility to consult local waste water discharge regulations and ensure compliance.
- In tropical climates (high ambient temperatures and humidity levels), the air generally contains more water vapor. The extra condensate, generated during the compression and cooling process of the air, shortens the contact time in the device, leaving less time for the media to absorb the oil. Climatic conditions used in the table above are defines as follows:
 - Cold climate conditions: average ambient temperature of 20°C/ 68°F- relative humidity of 50 %
 - Normal climate conditions: average ambient temperature of 25°C/ 75°F - relative humidity of 50%
 - Hot climate conditions: average ambient temperature of 35°/ 95°F - relative humidity of 70 %
- Pneumatech assumes as well maintained compressor plant and reasonable operating conditions. Performance on mineral or mineral-based lubricants should be as above, irrespective of compressor type, condensate drain technology or climate, provided the condensate produced is not a stable emulsion.