



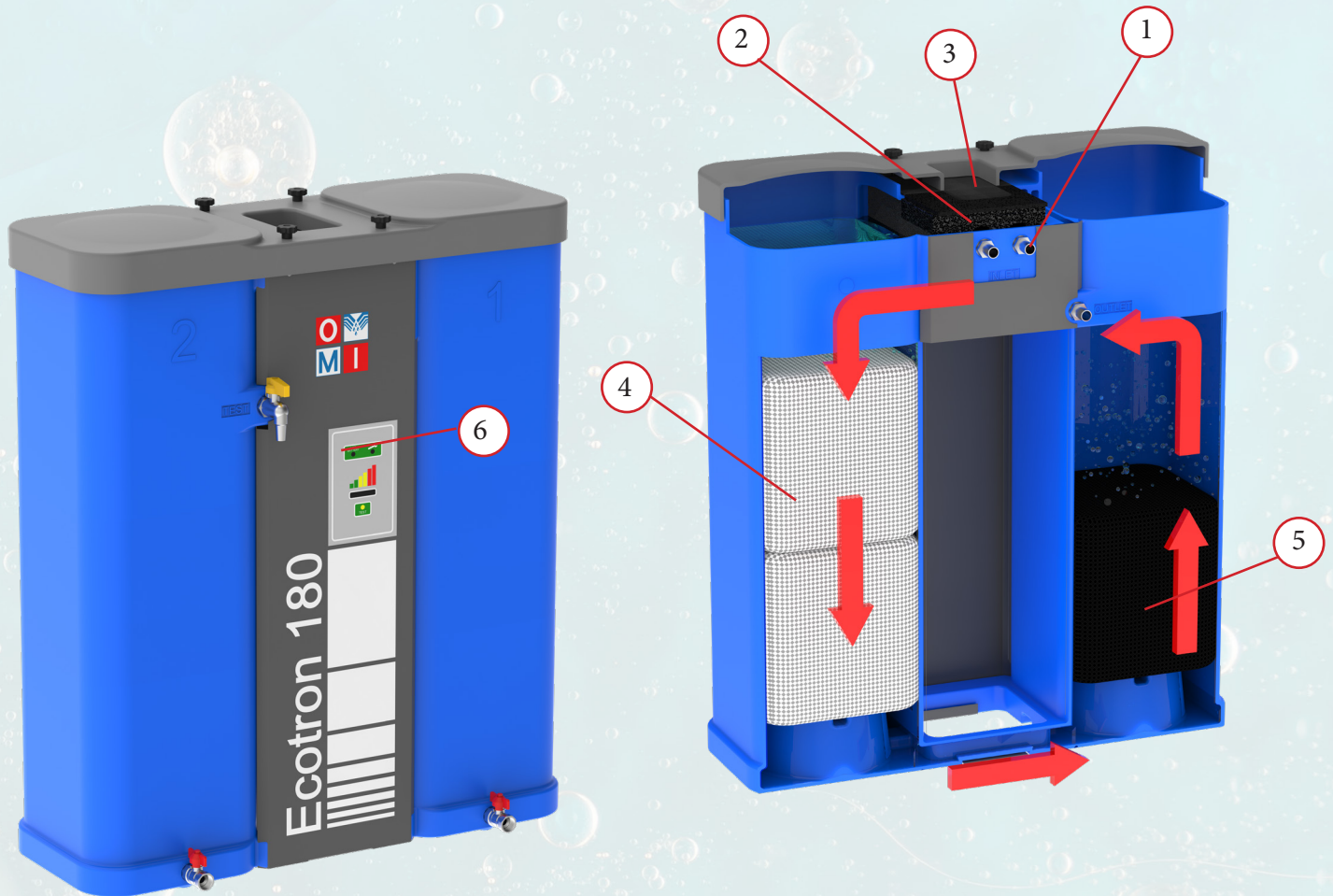
Water oil separators

Ecotron & Ecosep



Features and benefits

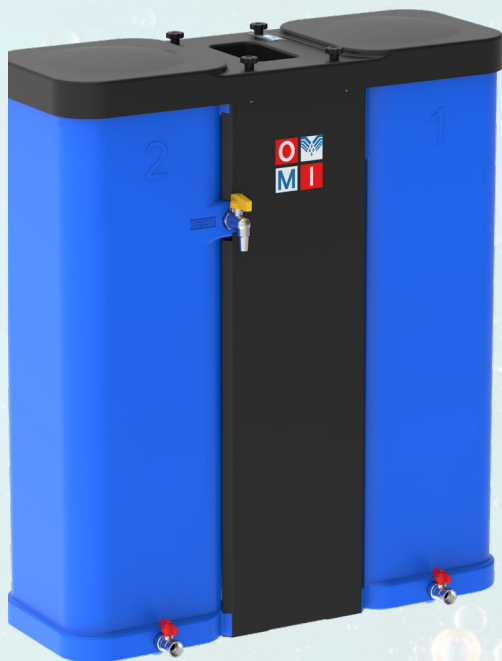
The condensate discharged by a lubricated air compressor contains a significant quantity of oil and solid particles that, if not properly removed, will seriously pollute the environment. The dual-stage treatment of the ECOTRON/ECOSEP uses both Adsorbent Filter and Activated Carbons which allows it to separate out oil-water emulsion coming from the compressor and the air treatment system.



The system is based upon a simple process of filtration in 2 stages through 2 different filters, positioned in the two columns.

From the inlet connection (1), condensation is introduced into a noise/pressure reduction pre-chamber to allow the condensate to flow smoothly inside the separator. In this chamber, solid particles are retained by the demister path (2) and any residual de-compressed air is discharged from the top part (3) through an odour-removing activated carbon filter.

After this initial stage the mixture of water and oil flows via gravity down through the first filter (4) which, thanks to its physical characteristics, capture the oil and the condensate is consequently free to flow into the second stage of filtration where a deep bed of activated carbon (5) adsorbs any residual traces of oil, before the water is discharged from the outlet port.



In the **Ecotron version**, a patented electronic device (6) gradually indicates the efficiency level of the first filter (4), allowing an easy diagnostic of the unit. When the filter (4) is saturated an ALARM is shown in the display*, and a remote free contact advises the operator when the filters must be replaced.

The **Ecosep line** maintains the identical filtration process of Ecotron series, both in the single column version and the double column version. Only the electronic device is replaced by an easy and intuitive timestrip (7), which gives the User the time indication on when to replace the filter kit.



PERFORMANCES

Clean wastewater with oil content at the outlet up to 10 mg/l.



COMPATIBILITY

ECOTRON-ECOSEP can work with the most of the oils on the market.



VERSATILITY

13 models cover all the flow-rates of air treatment systems. For larger systems, the models can also be installed in parallel mode. It work with any type of condensate drain (manual, automatic, electronic, NO-LOSS, INTEGRATED NOT LOSS etc).



EXTENDED RANGE

The 2 new single-column oil-water separators guarantee, for lower flow rates, high performance and reliability with reduced dimensions and costs.



EASY MAINTENANCE

Maintenance kits allow a simple and intuitive replacement, minimizing any downtime and keeps your production going. A dedicated sizing tool provides the correct maintenance time.



THE RIGHT CHOICE

ECOTRON is equipped with a controller which shows an alarm in the display and advises the operator when the filters must be replaced.

ECOSEP, the most compact and economic solution, provides maintenance alerts thanks to a timestrip, placed on the separator's head, while maintaining the same performances.

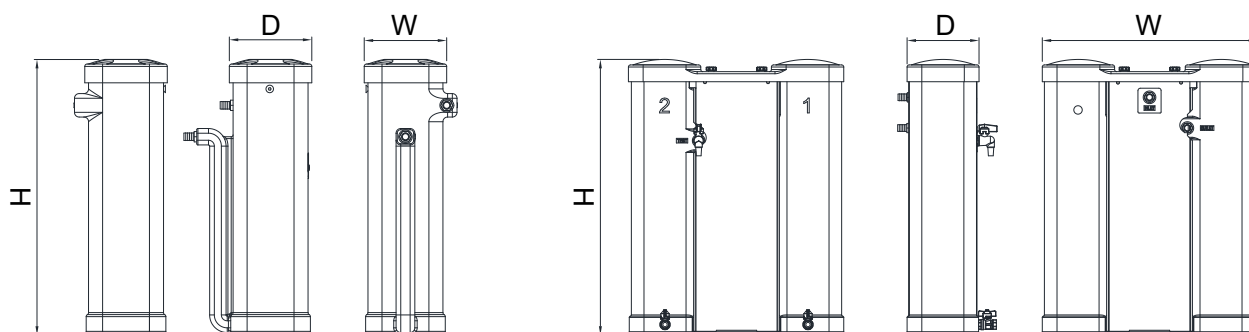
*valid for ECOTRON models

Technical specifications

Model	Code	Flow-rate			Compressor	IN Connections	OUT Connections	Dimensions			Weight
		l/min	m ³ /h	CFM	HP	BSP	BSP	W	D	H	Kg
ECOSEP 25	05C.0025.00	2.500	150	88	15	½"	½"	200	245	588	6,5
ECOSEP 35	05C.0035.00	3.500	210	124	25	½"	½"	200	245	588	7
ECOSEP 50	05C.0050.00	5.000	300	176	40	½"	½"	515	175	640	9
ECOSEP 90	05C.0090.00	9.000	540	318	60	½" + ½"	½"	715	260	815	18
ECOSEP 180	05C.0180.00	18.000	1.080	635	125	½" + ½"	½"	715	260	815	21
ECOSEP 300	05C.0300.00	30.000	1.800	1059	200	½" + ½"	¾"	1065	420	1240	59
ECOSEP 600	05C.0600.00	60.000	3.600	2118	400	½" + ½"	¾"	1065	420	1240	63
ECOTRON 25	05B.0025.00	2.500	150	88	15	½"	½"	515	175	640	8
ECOTRON 50	05B.0050.00	5.000	300	176	40	½"	½"	515	175	640	9
ECOTRON 90	05B.0090.00	9.000	540	318	60	½" + ½"	½"	715	260	815	18
ECOTRON 180	05B.0180.00	18.000	1.080	635	125	½" + ½"	½"	715	260	815	21
ECOTRON 300	05B.0300.00	30.000	1.800	1059	200	½" + ½"	¾"	1065	420	1240	59
ECOTRON 600	05B.0600.00	60.000	3.600	2118	400	½" + ½"	¾"	1065	420	1240	63

Correction Factors

Correction factors for different ambient air temperatures and different relative humidity				
Temperature °C - Humidity %	10 °C - 50%	18 °C - 55%	25 °C - 60%	35 °C - 70%
Factor	2	1,5	1	0,45



OFFICINE MECCANICHE INDUSTRIALI
Via dell'Artigianato, 34 - 34070 Fogliano Redipuglia (GO) - ITALY
Tel. ++39.0481.488516 - Fax. 0481.489871
www.omi-italy.it e-mail: omi@omi-italy.it



OMI reserves the right to change the data contained in this catalogue without prior notice

© Copyright 2021 OMI Srl