OPERATING PRINCIPLE:

1. The oily condensate (under pressure) enters the expansion chamber (only for model with pre-separator).
2. Here the pressure is exhausted in the pre-separation container, without any turbulence.
3. Any solid particle is collected into a removable container.
4. Inside the pre-separation container the oil returns to the surface due to gravitational separation. Then the oil flows into the oil container.
5. The treated condensate reaches the filtering phase. The pre-filter retains much of the remaining oil as the condensate passes through it. It also removes any residual oil inside the filtering chamber.
6. The remaining oil particles are efficiently filtered by the main filter element.

The final result is clean water, ready for disposal directly in to the sewerage system. Replacing the filter is simple, quick and clean, due to the new technology of the element.

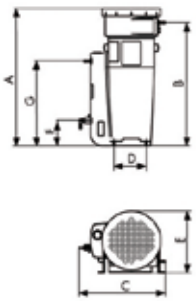
MODEL	RECEIVER VOLUME	FILLING VOLUME	CONDENSATE INLET	WATER OUTLET	OIL OUTLET	OIL COLLECTION CONTAINER	EMPTY WEIGHT	TEMPERATURE	INLET MAXIMUM WORKING PRESSURE	PRE-FILTER	MAIN FILTER
	l	l	pipe	pipe		l	Kg	Min - Max °C	bar	l	l
MOS 010	10	4,3	2 x 1/2"G	1/2"G	-	-	4	+5 a + 60	16	2,5	2,6
MOS 011	18,6	11,7	2 x 1/2"G	1/2"G	-	-	6	+5 a + 60	16	4,7	4,8
MOS 012	30,6	20,3	3 x 1/2"G (ø 10 mm) 1 x 1"G (ø 25 mm)	1/2"G	DN 25	5	12	+5 a + 60	16	2,5	5,4
MOS 112	30,6	22,7	3 x 1/2"G (ø 10 mm) 1 x 1"G (ø 25 mm)	1/2"G	DN 25	5	14	+5 a + 60	16	2,5	5,4
MOS 014	61,3	41,5	3 x 1/2"G (ø 10 mm) 1 x 1"G (ø 25 mm)	1"G	DN 25	5	16	+5 a + 60	16	6,7	10,4
MOS 114	61,3	46,3	3 x 1/2"G (ø 10 mm) 1 x 1"G (ø 25 mm)	1"G	DN 25	5	19	+5 a + 60	16	6,7	10,4
MOS 015	115,5	72,5	3 x 1/2"G (ø 13 mm) 1 x 1"G (ø 25 mm)	1"G	DN 40	10	32	+5 a + 60	16	18,5	20,2
MOS 115	115,5	84,3	3 x 1/2"G (ø 13 mm) 1 x 1"G (ø 25 mm)	1"G	DN 40	10	37	+5 a + 60	16	18,5	20,2
MOS 016	228,4	137,2	3 x 1/2"G (ø 13 mm) 1 x 1"G (ø 25 mm)	1"G	DN 40	20	42	+5 a + 60	16	36,5	40,3
MOS 116	228,4	158,8	3 x 1/2"G (ø 13 mm) 1 x 1"G (ø 25 mm)	1"G	DN 40	20	53	+5 a + 60	16	36,5	40,3

MODEL	DIMENSIONS (MM)							
	A	B	C	D	E	F	G	H
MOS 010	530	470	310	100	230	110	330	-
MOS 011	600	540	390	140	260	110	370	-
MOS 012	-	730	350	-	390	320	340	200
MOS 112	710	-	350	550	-	320	340	200
MOS 014	-	900	410	-	470	420	460	240
MOS 114	880	-	410	600	-	420	460	240
MOS 015	-	1120	530	-	580	505	550	270
MOS 115	1090	-	530	770	-	505	550	270
MOS 016	-	1200	660	-	710	535	580	200
MOS 116	1160	-	660	940	-	535	580	200

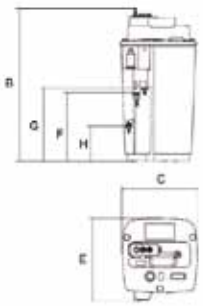
Models MOS 012-MOS 014-MOS 015-MOS 016 models are without pre-separator.
Models MOS 112-MOS 114-MOS 115-MOS 116 models are with pre-separator.

MOS 010

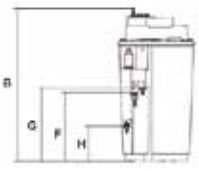
MOS 011



MOS 012 ÷ 016



MOS 112 ÷ 116



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UNI EN ISO 9001:2008

PRODUCTS INFORMATION

English

MOS

OIL - WATER SEPARATORS

OIL - WATER SEPARATORS
MOS

About us

Ing. **Enea Mattei SpA** is an Italian company that has been producing air compressors since 1919. Over the years, the company has continually evolved and is today one of the world's foremost companies in the compressed air sector and the leader in the production of rotary vane compressors.

Behind the success of Mattei are the choice the company has made in terms of design, production and marketing, driven by the results of its continual and in-depth research and development programmes.

During these years of continual change, Mattei has been able to adapt to the requirements of the market and through the results of its research has created products that are always innovative and technologically advanced.

Certified quality

Quality as an integral part of all company functions and constant improvement of all production processes so as to always guarantee the maximum level of reliability and satisfaction. This, in brief, is the value and the meaning of **Mattei's** operational philosophy. A way of approaching the market and customers that makes **Mattei** an absolute point of reference in the compressed air sector.
Since 1994, **Mattei** has been operating with a Quality System certified by the DNV Institute under UNI EN ISO 9001 regulations.

Condensate treatment

The condensate produced by any kind of lubricated compressor contains an amount of oil residues and, if dispersed, these may pollute the environment.

MOS oil-water separation system provides for condensate treatment directly where it rises, conforming to technical and legal requirements, with remarkable savings due to reduction of the disposal costs.

FILTERING SYSTEM: Both the pre-filter and the main filter are composed of high quality and efficient filtering material.

FILTER ELEMENT SYSTEM: The main element may be easily removed due to the useful handle. This allows the filter to be replaced without getting dirty.

SIMPLE INSTALLATION: Connection can be made in three different directions, with the advantage of a quick and simple installation.

HEATER WITH THERMOSTAT: If the unit is to be installed in a cold environment the MOS separator can be equipped with an optional heating system, to avoid the condensate freezing.

ENVIRONMENT PROTECTION: Manufactured with recyclable materials and complying with regulations for waste disposal.

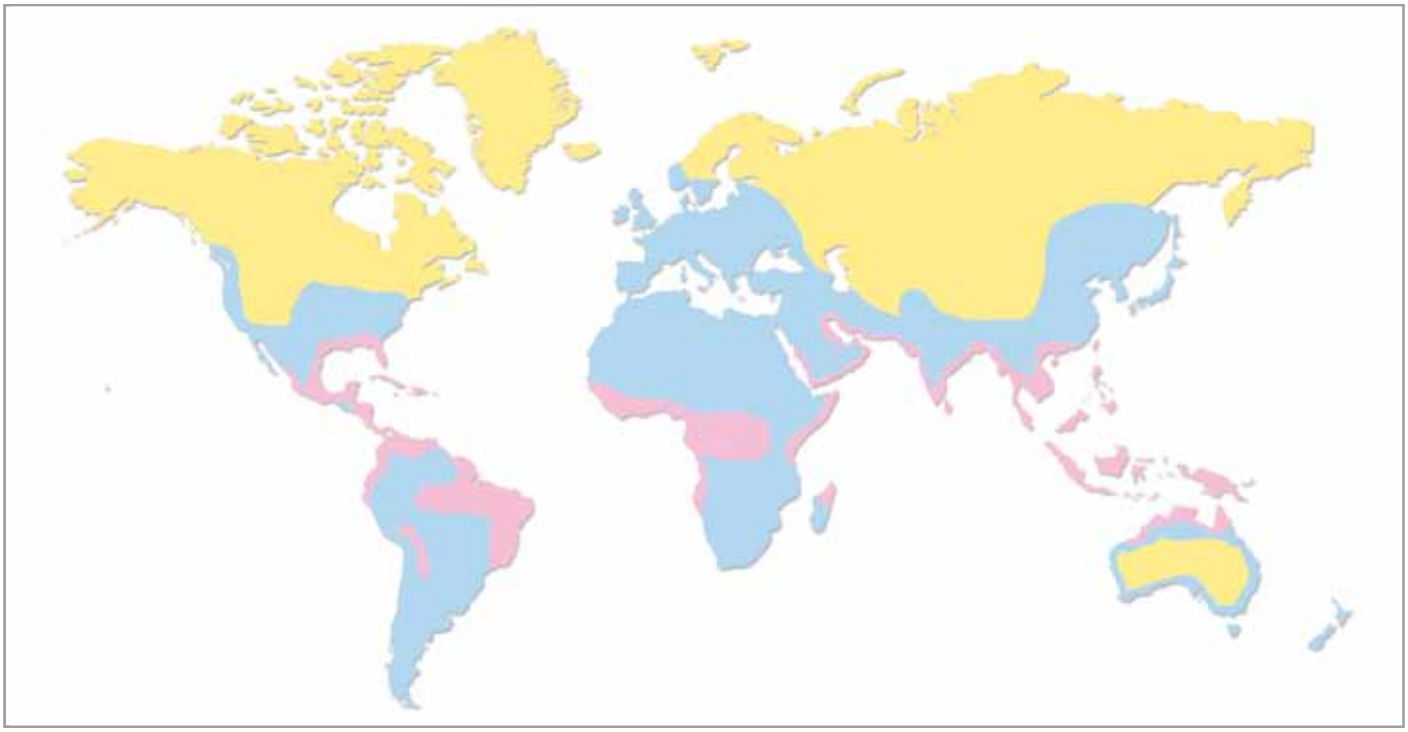
Performance and weather conditions

For suitable sizing of the systems and maximum efficiency please consider the world's different climatic areas.
In fact, performance of MOS oil-water separator depends on the climatic area where it is operating, to choose the suitable model to be purchased it is essential to refer to the climate zones table.

COLD AND/OR DRY CLIMATE
Northern Europe, Canada, USA Northern states, Central Asia

TEMPERATE CLIMATE
Central and Southern Europe, Central America

WET-TROPICAL CLIMATE
Coast regions of South-East Asia, Amazonia, Oceania and Congo



	COMPRESSOR MAXIMUM PERFORMANCE (m^3/min)				
	Turbine oil	VDL oil	VCL oil	PAO synthetic oil	Ester synthetic oil
MOS 010	2,4	2,4	1,9	1,9	1,6
	2,8	2,8	2,1	2,1	1,8
	2,1	2,1	1,6	1,6	1,4
MOS 011	4,9	4,9	3,8	3,8	3,2
	5,5	5,5	4,2	4,2	3,6
	4,2	4,2	3,2	3,2	2,8
MOS 012 - 112	7,3	7,3	5,6	5,6	4,8
	8,5	8,5	6,5	6,5	5,5
	6,2	6,2	4,8	4,8	4,0
MOS 014 - 114	14,6	14,6	11,3	11,3	9,6
	16,9	16,9	13,0	13,0	11,1
	12,5	12,5	9,6	9,6	8,2
MOS 015 - 115	29,3	29,3	22,5	22,5	19,1
	33,6	33,6	25,9	25,9	22,0
	24,9	24,9	19,1	19,1	16,3
MOS 016 - 116	58,5	58,5	45,0	45,0	38,3
	67,3	67,3	51,8	51,8	44,0
	49,7	49,7	38,3	38,3	32,5