



Future-proof compressed air dryers
**Maximize system efficiency and
streamline your operations**



Company profile

OMI is a global company present in over 56 countries with a **wide network of capillary distribution** and a range of products that can be adapted to the most diverse applications on the market. Through our avant-garde centre of research and development, we develop innovative projects customized and turnkey that in addition to meeting the more diverse customer needs is direct the market towards new solutions.

We aim to be the market benchmark by offering **innovative, efficient and customized solutions**



for compressed air treatment and industrial refrigeration. We focus on quality and performances of our products, enhancing the talent, the passion and our team experience.

Design and manufacturing high quality and high efficiency products to satisfy our customers and to make them more competitive on the market, applying innovative technologies, deploying the culture of safety, caring about the environment and **providing excellent support during the entire life cycle of the product.**



OMI Compressed Air Dryers

OMI emerges as a leading innovator in compressed air treatment, distinguished by its exceptional technology including **unique, patented design features** that set us apart from competition. Catering to industries like automotive, textile, printing, and pharmaceutical, OMI's systems are pivotal in processes like pneumatic transport of powders, high-quality sandblasting, and spray painting and wherever high quality compressed air is needed. We provide compressed air OEMs and distributors with unparalleled support and a **wide range of products that deliver multiple benefits** to them and their customers:



Energy-efficient



Environmentally
friendly refrigerants
(R513A and R407C)



Certified ISO-9001



Industry 4.0 Ready



Optimized Cost
of Ownership



User-friendly solutions



Refrigerated Air Dryers

OMI Refrigerated air dryers are the trusted choice for industries that demand clean, dry, and reliable compressed air. With a wide range of products designed for various applications, OMI ensures energy efficiency, reliability, and optimal air quality. Our refrigerated compressed air dryers feature unique design solutions and energy saving functions and systems, making us the market leader and setting us apart from competition. Handling airflow rates up to 24000 m³/h and featuring ISO Class 3 & 4 water content, OMI refrigerated compressed air dryers are a perfect choice for a wide range of applications. Delivering dry, clean air to you and your customers, OMI dryers help prevent corrosion and compressed air systems' costly downtime and ensure maximum end product quality. Particularly recommended for:





Dolomite Dryers Overview

The Dolomite Dryers Series (DD series) offers **airflow range expansion up to 1300 m³/h and a guaranteed Class 5 Dew Point**.

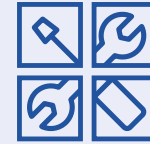
Cost-effectiveness is a key strength of the DD series, characterized by a **lower purchase price and reduced power consumption**, thanks to new, more energy-efficient heat exchangers. Additionally, the optional No-Loss Drain feature minimizes compressed air losses, further amplifying profitability.

With options like customized painting, marine painting, and a 60 Hz version available, and more, the DD series caters to diverse industrial requirements. **Standard refrigerant gas R513A up to model DD 216** underscores the series' commitment to environmental responsibility.

The series shines in serviceability with its simplified maintenance approach, featuring an easily removable frame. For those seeking advanced control, the optional Modbus RS485 interface allows for remote dryer management and monitoring, showcasing the series' adaptability to modern industrial needs.



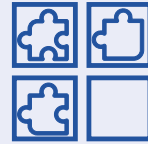
Low purchase cost



Easy maintenance



Class 5 Dew Point



R513A-compatible

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Dolomite Dryers Specifications

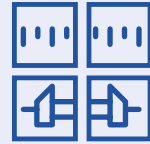
Contact us to obtain the newest datasheets
and more information about options,
correction factors and suggested filtration.



Easy Dry Dryers Overview

The Easy Dryers (ED series) revolutionize industrial air drying with a vast **airflow capacity ranging up to 24,000 m³/h**, ensuring superior air quality and a consistent **dew point class 4**. This series champions energy efficiency, dramatically reducing end-users' operating costs and featuring a compact design that maximizes space efficiency. These dryers are synonymous with reliability and versatility, catering to a broad spectrum of industries from manufacturing to automotive.

The ED series apart also features the ecological refrigerant gas R513A and a optional no-loss “smart drain” system, enhancing both performance and sustainability. **The user-friendly control panels offer advanced features such as anti-freeze mode and comprehensive alarm systems**, ensuring ease of use and maintenance. With their reduced footprint, **up to 40% smaller than previous models**, and the promise of consistent performance meeting ISO 8573-1 standards, the Easy Dryers range is not just an investment in efficiency, but a commitment to quality and innovation.



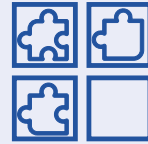
Wide performance
range



High reliability



Class 4 Dew Point



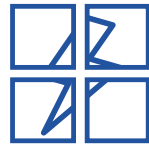
R513A-compatible

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Easy Dryers Specifications

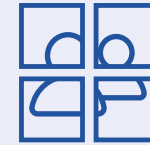
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Energy-efficient



Partial load operation



User-friendly



Class 4 Dew Point



R513A-compatible

Energy Saving Dryers Overview

The Energy Saving Dryers (ESD series) are at the forefront of drying technology, distinguished by their **innovative three-circuit heat exchanger** that synergizes refrigerant, glycol, and compressed air. This unique configuration enables the ESD dryers to maintain **optimal efficiency across a 0 to 100% load range**, delivering a remarkable reduction in operating costs by up to 90%. Tailored for applications with variable or intermittent air demand, these dryers also feature an intelligent display for real-time monitoring of energy savings and historical data.

The ESD series utilizes eco-friendly refrigerant gases like R513A. This, coupled with features such as an **automatic shut-off of the refrigerant compressor during low load periods**, substantially minimizes energy waste and improves environmental compliance. These dryers boast features such as self-regulation, plug-and-play installation, and compatibility with Industry 4.0 standards for remote management, making them a user-favorite.

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Energy Saving Dryers Specifications

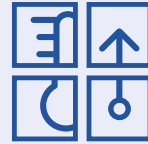
Contact us to obtain the newest datasheets
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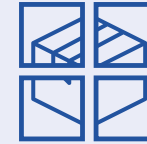
High Temperature Dryers Overview

The High Temperature Dryers (HTD series) from OMI redefine the approach to handling high-temperature compressed air. Designed to **efficiently manage air pre-cooled to near-ambient temperatures**, this series stands out for its ability to **lower installation costs and overcome sizing challenges commonly associated with systems requiring multiple components**. By integrating functions such as pre-cooling, separation, and drying into one package, the HTD series significantly reduces system pressure drops and running costs, offering a more streamlined and cost-effective solution.

Key to the HTD series is its innovative feature set, including an aftercooler **capable of handling inlet temperatures up to 90°C** and a highly effective particle prefilter/separator. This combination ensures the removal of both liquid and solid contaminants, delivering **exceptionally clean and high-quality compressed air**. Additionally, the series boasts energy-saving features like an Auto-sleep mode that activates during zero-load conditions and an environmentally friendly R513A refrigerant.



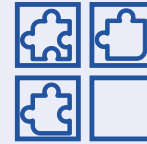
High temperature operation



Optimized package



Class 4 Dew Point



R513A-compatible

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High Temperature Dryers Specifications

Contact us to obtain the newest datasheets
and more information about options,
correction factors and suggested filtration.



High Pressure Dryers Overview

The High Pressure (HP) series covers uniform **airflow rates up to 1200 m³/h for high-pressure applications up to 45 barg**. This series is particularly **suited for blow molding for PET container and bottling production, water jet cutting, aeronautical valves, and other specialized uses**.

The HP series stands out for its guarantee of a **+3°C dew point**, ensuring maximum reliability and optimal air quality for sensitive processes. A key innovation in this series is the new heat exchanger design, which is more compact and efficient than previous models, enhancing performance and energy efficiency. Safety is also a paramount feature of the HP series, with all models equipped with a **safety valve** that activates in case of direct contamination between refrigerant gas and compressed air.



Class 4 Dew Point



Up to 45 barg pressure

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High Pressure Dryers Specifications

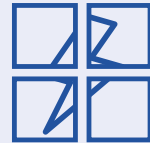
Contact us to obtain the newest datasheets
and more information about options,
correction factors and suggested filtration.



Sub Freezing Dryers Overview

The Sub Freezing Dryers (SFD) series stands out in the air treatment market as **the only -20°C (PDP) refrigerant dryer available**, while offering airflow rates of up to **1600 m³/h**. This series blends the best of both worlds: the low operational and energy costs of a refrigerant dryer with the subfreezing PDP of traditional regenerative adsorption dryers. This innovative approach **significantly reduces the total cost of ownership**. The SFD dryer delivers **high air quality, meeting Class 3 ISO 8573-1 standards**, and is particularly effective in environments where equipment is exposed to subfreezing temperatures. Its **patented heat exchanger** with a double cooling chamber ensures this high performance while keeping functioning and energy costs low.

What sets the SFD series apart is its **no purge air requirement for regeneration**, which drastically improves energy efficiency and reduces the need for high-maintenance equipment. This feature, coupled with the absence of costly consumables like desiccant media, translates to lower maintenance costs. The SFD dryer is easy to install, requiring **40% less footprint than comparable adsorbing dryers** and is fully compatible with all types of compressors, eliminating the need for expensive modifications.



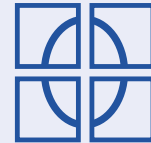
Energy-efficient



Easy installation



Class 3 Dew Point



Zero purge air

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Sub Freezing Dryers Specifications

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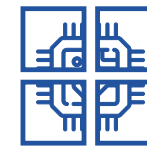


Adsorption Air Dryers Overview

OMI adsorption compressed air dryers offer advanced desiccant technology for superior moisture removal, ensuring dry, clean air for optimal pneumatic system performance. Tailored for energy efficiency, these dryers feature smart control systems that reduce operational costs as well as other energy-saving features. Handling airflow rates up to 14900 m³/h and featuring ISO Class 1 & 2 water content and stable dew points down to -70°C, they cater to various flow rates and pressure needs, ensuring a perfect fit for any industrial application. Their design not only promises enhanced air quality and reliability but also significant long-term savings and reduced environmental impact, delivering unmatched value to you and your customers. Particularly recommended for:



Automotive



Micro-electronics,
semiconductors



Textile



Painting



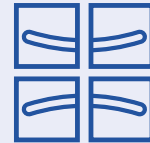
Pharma



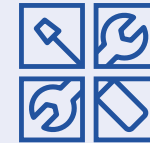
Chemical,
petrochemical



High reliability



Flexible solution



Easy maintenance



Modularity



Class 1 & 2 Dew Point

Karst Modular Dryers Overview

The Karst Modular Dryers (KMD) series covers a broad range of needs with models offering **extended pressure ranges up to 14 barg and airflow coverage up to 300 m³/h**. Constructed with robust extruded aluminum and equipped with NEMA 3/IP54 Protection, these dryers are perfectly suited for both indoor and outdoor use. The series stands out for its **Point Of Use design**, significantly reducing compressed air costs with a conservative pressure drop of 0.2 barg. An optional **Energy Management System (EMS)** further enhances efficiency, adjusting operations based on demand and potentially **offering a quick return on investment**.

The KMD series features a user-friendly electronic interface, quick installation, and low operational noise. Versatile installation options, including adaptable connection piping and multiple mounting choices, cater to different space requirements. Advanced features like proactive maintenance alerts and seamless integration into control systems via Modbus-Ready and RS-485 communications highlight the series' commitment to operational efficiency and reliability.

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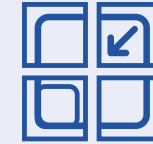
Karst Modular Dryers Specifications

Contact us to obtain the newest datasheets
and more information about options,
correction factors and suggested filtration.



Heatless Dryers HL Overview

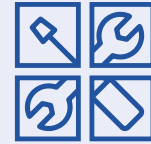
The smallest range of adsorption dryers, for flow rates up to 18 m³/h. Compactness, simplicity of construction and use, make this series suitable for the requirements of small flow rates and high air quality. All the models guarantee air purity class 3 for humidity and liquid water (ISO 8573-1), while the HU0030 model guarantees class 1.



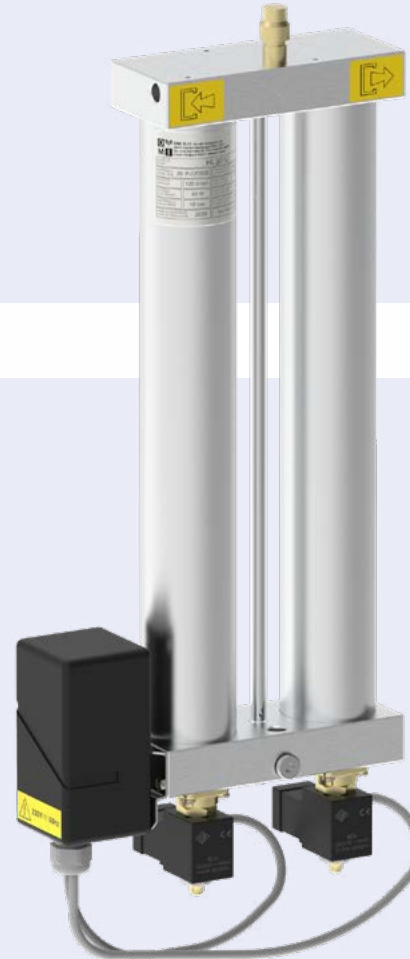
Compact



Simple design



Low maintenance





Heatless Dryers HL Specifications

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Heatless Dryers HLA

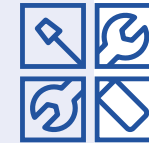
Overview

The HLA Heatless Desiccant Dryers Series from OMI stands out for its superior air quality and efficiency, covering a **airflow range from 400 to 2000 m³/h** with a guaranteed **dew point Class 1** and 2, conforming to ISO 8573-1 standards. This series, recognized as OMI's most economical desiccant dryer option, further reduces operating costs with an optional Energy Management System (EMS) that optimizes compressed air usage and purge cycles.

HLA Dryers feature optimized, long-life valves for efficient switching and purging, and a low-profile design for simplified maintenance and lower transportation costs. Standard features include an IP54 electrical enclosure, tower pressure gauges, and a new digital controller with MODBUS RS-485 compatibility. Additionally, the series offers a range of optional enhancements like high-efficiency filters and fail-to-shift alarms for larger models. Its proactive maintenance alerts ensure consistent operation and minimal downtime.



High performance



Easy maintenance



Class 1 Dew Point

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Heatless Dryers HLA Specifications

Contact us to obtain the newest datasheets and more information about options, correction factors and suggested filtration.



Heatless Dryers HLA PRO Overview

The HLA PRO Heatless Desiccant Dryers Series from OMI marks a significant advancement in air drying technology, offering a broad range of 16 models covering **airflows from 160 to 8500 m³/h**. This series ensures top-tier air quality, meeting **dew point Class 1 and 2** standards as per ISO 8573-1, particularly when used with OMI filters. It features a new, precise pneumatic valve sequencing controller and an easy-to-use system controller with a backlit display, enhancing operational reliability. The series is also Industry 4.0 ready, with Modbus external communication capabilities via RS-485 port, making it a future-proof investment for various industrial applications.

Designed for cost efficiency, the HLA PRO series reduces compressed air costs with the optional Energy Management System (EMS) and features a Compressor Interlock Function that minimizes purge requirements based on air demand. Its low-profile, space-saving design, combined with rear-mounted manifolds for easy access to critical components, and new long-life valves, ensures ease of maintenance and service.





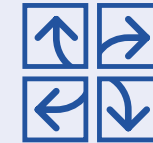
Heatless Dryers HLA PRO Specifications

Contact us to obtain the newest datasheets
and more information about options,
correction factors and suggested filtration.



Heated Blower Dryers HBA Overview

The heated blower desiccant dryers series HBA offers **airflow rates up to 14.900 m³/h and guarantees dry air at -40°C, without any consumption of compressed air**. This technology uses an innovative blower which draws ambient air, which is subsequently warmed up by a heater and sent to the column to regenerate the adsorbent material. Then, the reverse blower produces a counter airflow to effectively cool down the desiccant media inside the column. This technology allows to reduce to zero the air consumption related to the cooling sweep. Heated blower dryers requires a greatest initial capital investment and a greater expense for electricity, but it **guarantees a complete reduction in the consumption of compressed air**, which in many applications makes it more competitive with respect to heatless technology.



Versatility



Class 1 & 2 Dew Point



Zero purge air





Heated Blower Dryers HBA Specifications

Contact us to obtain the newest datasheets
and more information about options,
correction factors and suggested filtration.



Water-Cooled Aftercoolers

A-AV Overview

A-AV aftercoolers are efficient heat exchangers designed to reduce the temperature of compressed air using a water circuit. This cooling process improves air quality, protects downstream equipment, and enhances overall system performance. Our water-air aftercoolers feature a compact design, high thermal efficiency, and reliable operation, making them a strategic choice for energy-conscious air treatment systems.

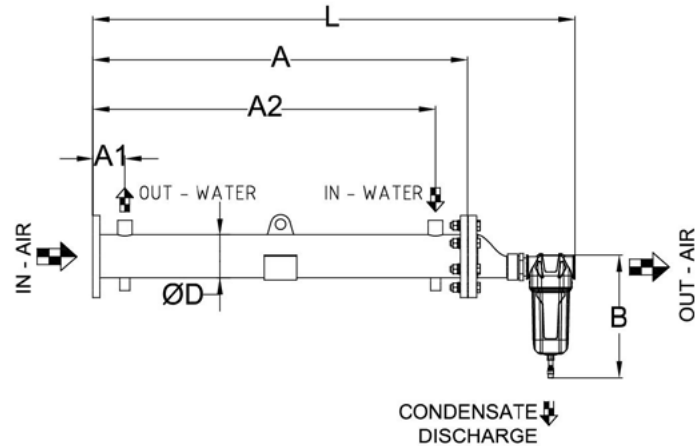
Aftercoolers are often paired with our CHW chillers, which supply the cooling circuit with stable, low-temperature water. This combination ensures consistent thermal performance, even under demanding conditions, and increases the overall efficiency of the air treatment system. The synergy between A-AV and CHW guarantees optimal cooling and reliable operation, especially in installations where water is not readily available.

Several options are available upon request, including versions with a fully stainless-steel heat exchanger and models designed for vertical installation, to better suit specific layout or process requirements.





Water-Cooled Aftercoolers A-AV Specifications



Working reference parameters	
Parameter	Value
Pressure	A-AV 27-350 7 bar (max 16 bar)
Compressed air inlet temperature	120 °C (min 1 °C – max +200 °C)
Inlet temperature	15 °C (min 1 °C – max. 90 °C)
Maximum water inlet pressure	10 bar
Ambient temperature	1 – 65 °C

Model	Max air flow		AIR connection		Water IN/OUT	Drain connection (BSP)	Dimensions [mm]								Weight			
	[m³/h]	[lt/min]	IN	OUT			A1	A2	A	B	D	E	L	H	A [kg]	AV [kg]	A_S [kg]	AV_S [kg]
27	160	2.667	DN 100	1-1/2" BSP	1" BSP	3/8" BSP	85	915	1000	356	114.3	548	1278	1555	34	52	34	52
42	250	4.167	DN 100	1-1/2" BSP	1" BSP	3/8" BSP	85	1065	1150	356	114.3	548	1433	1715	40	55	40	55
75	450	7.500	DN 100	1-1/2" BSP	1" BSP	3/8" BSP	85	1215	1300	357	114.3	548	1583	1865	45	58	45	58
125	750	12.500	DN 100	2" BSP	DN 40	3/8" BSP	92	1300	1500	474	114.3	595	1831	2164	47	60	47	60
160	1.000	16.667	DN 125	3" BSP	DN 40	3/8" BSP	100	1400	1500	700	139.7	730	1929	2413	65	85	65	85
270	1.600	26.667	DN 125	3" BSP	DN 50	3/8" BSP	105	1445	1550	700	139.7	730	1979	2463	71	88	71	88
350	2.100	35.000	DN 150	3" BSP	DN 65	3/8" BSP	112	1488	1600	700	168.3	816	2044	2571	95	120	95	120

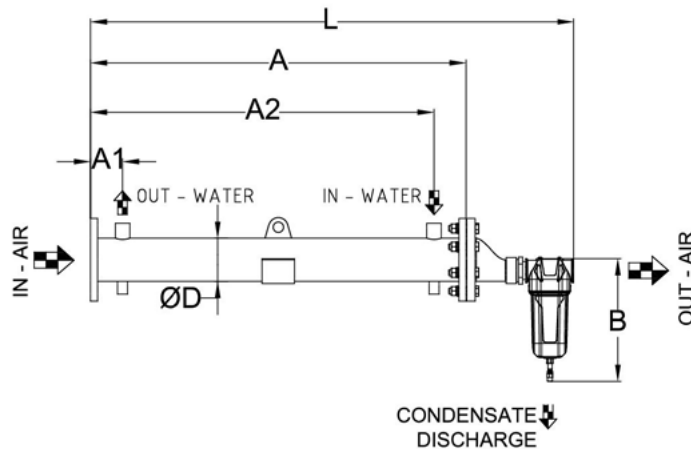
A : standard - carbon steel exchanger (horizontal installation) / AV : carbon steel exchanger (vertical installation)
A_S : stainless steel exchanger (horizontal installation) / AV_S : stainless steel exchanger (vertical installation)

* Product specifications may be subject to change without prior notice.

Contact us to obtain the newest datasheets, more technical drawings and more information about options, correction factors and suggested filtration.



Water-Cooled Aftercoolers A-AV Specifications



Working reference parameters

Parameter	Value
Pressure	A-AV 450-1830: 7 bar (max 16 bar) A-AV 2500-6300: 7 bar (max 12 bar)
Compressed air inlet temperature	120 °C (min 1 °C - max +200 °C)
Inlet temperature	15 °C (min 1 °C - max. 90 °C)
Maximum water inlet pressure	10 bar
Ambient temperature	1 - 65 °C

Model	Max air flow		AIR connection		Water	Drain connection (BSP)	Dimensions [mm]								Weight			
	[m³/h]	[l/min]	IN	OUT			A1	A2	A	B	D	E	L	H	A [kg]	AV [kg]	A_S [kg]	AV_S [kg]
450	2.700	45.000	DN 200	DN 100	DN65	3/4" BSP	112	1488	1600	840	193.7	1005	2120	2620	105	145	105	145
560	3.400	56.667	DN 200	DN 100	DN80	3/4" BSP	112	1475	1600	840	219.1	1005	2120	2620	170	210	170	210
800	4.800	80.000	DN 250	DN 150	DN100	3/4" BSP	137	1263	1400	995	273	1169	1975	2650	250	310	250	310
1000	6.200	103.333	DN 250	DN 150	DN100	3/4" BSP	137	1262	1400	1014	273	1239	2045	2665	270	330	270	330
1250	7.500	125.000	DN 250	DN 150	DN100	1" BSP	138	1513	1650	1049	273	1169	2365	2900	310	370	310	370
1830	11.000	183.333	DN 300	DN 200	DN125	1" BSP	150	1500	1650	1250	323.9	1462	2415	3175	445	535	445	535
2500	15.000	250.000	DN 400	DN 250	DN150	1-1/2" BSP	200	1350	1553	1463	403.4	1895	2540	3400	650	820	650	820
3800	23.000	383.333	DN 450	DN 250	DN200	1-1/2" BSP	250	1350	1600	1490	457.2	2131	2720	3725	875	1100	875	1100
5100	31.000	516.667	DN 500	DN 300	DN200	2" BSP	250	1550	1750	1900	508	2477	3100	4155	1510	1825	1510	1825
6300	38.000	633.333	DN 600	DN 350	DN200	2" BSP	250	1500	1750	2040	609.6	2834	3235	4415	1625	2120	1625	2120

A : standard - carbon steel exchanger (horizontal installation) / AV : carbon steel exchanger (vertical installation)

A_S : stainless steel exchanger (horizontal installation) / AV_S : stainless steel exchanger (vertical installation)



Filter models Overview



F-SERIES

Air flow rate from
33m³/h to 31000 m³/h



ALPS SERIES

Air flow rate from
30 m³/h to 2700 m³/h



F-HD SERIES

Air flow rate from
108 m³/h to 31000 m³/h



STERILE FILTERS

Air flow rate from
42 m³/h to 2880 m³/h



Filtration Guide

Filtration grades		ISO 8573-1 Max solid dimension intercepted		ISO 8573-1 Max oil concentration (included steam)	
		µm	Class	mg/m³	Class
QF	Pre-filter suitable for the removal of solid particles. The strong mechanical resistance makes this filter the ideal initial protection of a compressed air system to retain impurities.	1	3	-	-
PF	Interception type filters suitable for solid and oil particles. These filters, by means of the impact, interception and coalescing principles, compel the submicronic liquid particles, which from the inside strain through the element, to collide and thus become larger micro droplets, which will drip to the bottom of the filter housing.	0,1	2	0,1	2
HF		0,01	1	0,01	1
CF	The activated carbon filter through the adsorption process attracts all odors and vapors left after desoiling and keep them on the surface of the activated carbon grain molecules. The element is made by thick activated carbon layer covered by fiber coating kept in place by an inside and outside stainless steel wall.	-	-	0,003	1



Other Equipment



Aftercoolers



Oil-Water
Separators



Condensate
Drains



Piping



Condensate
Separators



Service Support & Distribution Network

At OMI, our commitment to our customers extends far beyond the initial purchase. We pride ourselves on providing unwavering support throughout the entire lifetime of our equipment, ensuring that our clients always have the assistance they need to keep their operations running smoothly.

In our quest to deliver timely and efficient support, OMI has fostered close collaborations with a broad network of trusted distribution centers. This strategic alliance allows us to offer shorter lead times and the added benefit of local support,

ensuring that our customers receive prompt and personalized assistance.

Furthermore, the quality and integrity of our products are of paramount importance to us. Every piece of equipment from OMI is meticulously crafted using original parts. This not only ensures the longevity and reliability of our products but also translates to optimum spare parts and service availability. With OMI, customers can be confident in the knowledge that they have a partner dedicated to their long-term success.



OMI Shield Extended Warranty

Our **new OMI Shield extended warranty program** is a comprehensive solution designed to **maximise the life of your new compressed air dryer, optimize its performance, and save you time and money.** Whether you're looking for peace of mind or improved operational efficiency, OMI Shield delivers unparalleled benefits that make managing your equipment easier than ever.

Our extended warranty offer includes dedicated maintenance kits for **5 years of full protection, keeping your compressed air dryers running at peak efficiency for longer!** Read on to learn how to enroll and what other benefits await you.

OMI Shield is currently available for the ED and ESD Series, ensuring tailored protection for our most advanced dryer technologies.





Experience the **ultimate protection** with OMI Shield

Expert Support

Benefit from a professional service by authorized providers, ensuring your equipment is always in expert hands.

Extended Protection

Secure up to 60 months of coverage, far beyond the standard 12-month warranty. Enjoy comprehensive protection, including essential maintenance and key component replacements, keeping your equipment in peak condition.

Hassle-Free Management

Stay on top of maintenance with scheduled service intervals and an easy-to-use online system for registration and tracking, simplifying your maintenance process.

Preventive Care

With regular maintenance checks and genuine service kits, OMI Shield ensures your equipment performs at its best, reducing the risk of unexpected breakdowns and costly repairs and downtime.

Enhanced Performance

Ensure optimal air quality and equipment efficiency with pre-filters and regular part replacements, maintaining peak performance and extending the life of your machines.

Cost Efficiency

Save with our discounted service kits and minimize downtime, keeping your operations running smoothly and efficiently.

Tailored Flexibility

Customize your service plan to meet your specific needs, with easy access to documentation and service schedules online, making maintenance as convenient as it is effective.



Contact

With a global footprint spanning over 56 countries, OMI stands as a leader in compressed air treatment and industrial refrigeration. Our cutting-edge research center crafts tailored solutions, meeting diverse market demands. Our commitment to quality, safety, and environmental stewardship is unwavering. Producing over 25,000 machines annually, we're a testament to innovation and excellence.



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