Manufacturing Forward

MHOC SERIES
HEAT OF COMPRESSION
COMPRESSED AIR DRYERS

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Mikropor began its journey in 1987 with a passion to create "Tomorrow's Technology" and has become one of the leading manufacturers of atmospheric air filtration solutions and compressed air treatment systems for a variety of industries.

By closely following the latest developments in technology, Mikropor's "Best in Class" products and solutions are appreciated by customers in more than 100 countries.

The company's sustainable growth has been provided by its passion for innovation and commitment to quality, as well as its dedication to technology. Mikropor is an environmentally conscious company that values people, while developing products that extend the needs and expectations of customers.

With this mission, Mikropor continues to become one of the most recognized brands in the world by expanding its global penetration in the field of technological filtration and contributes to a healthier planet.

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MHOC SERIES HEAT OF COMPRESSION COMPRESSED AIR DRYERS

Mikropor MHOC Series Compressed Air Dryers Mikropor MHOC Series Heat of Compression Air Dryer is energy-efficient by using the heat generated in the oil-free compressors and without any heaters or blowers, zero-purge, pressure swing adsorption (PSA) dryer engineered to remove water vapor from compressed air with the twin tower engineered design. Specifically designed for compatibility with oil-free compressors, this dryer ensures optimal performance. It offers compressed dry air production with the highest energy efficiency in the dryer technology. It provides the compressed dry air production required for the compressed air system with the lowest energy costs thanks to zero-purge (no purge air).

There is a regeneration option with compressed air to ensure dew point stabilization. The MHOC dryer's design allows it to achieve a -40°C (-40°F) dew point with stripping and cooling cycles. It has also a design to minimize pressure drop.

MHOC Series compressed air dryers eliminate the need for users to use any heater or provide the desired performance with an additional heater at way down kW values. In this way, it stands out as the most economical and environmentally friendly solution for compressed air lines and equipment.

kW Saver

The drying process is now greener for everyone!

Features & Advantages

- Highest energy-saving dryer technology
- No loss of compressed air at normal mode
- Max. 2% loss of compressed air at stripping mode
- Easy to install and user-friendly
- High-efficient production
- -40°C (-40°F) dew point by using generated heat from the compressor
- No external electric regeneration heating requirement
- Rapid return on investment (ROI)
- Monitoring of operating modes instantly with an advanced controller system
- Minimized pressure drop

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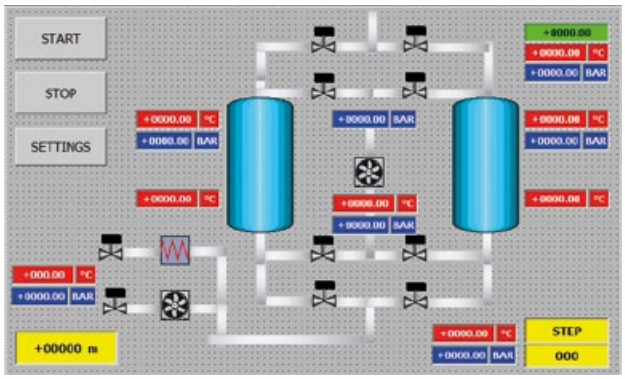
Advanced Standard PLC Controller System

HMI Touch Screen PLC is the standard controller system for MHOC Desiccant Dryers. Instant monitoring and controlling of PSA parameters can be provided and optimal performance can be checked by this controller system with high reliability.



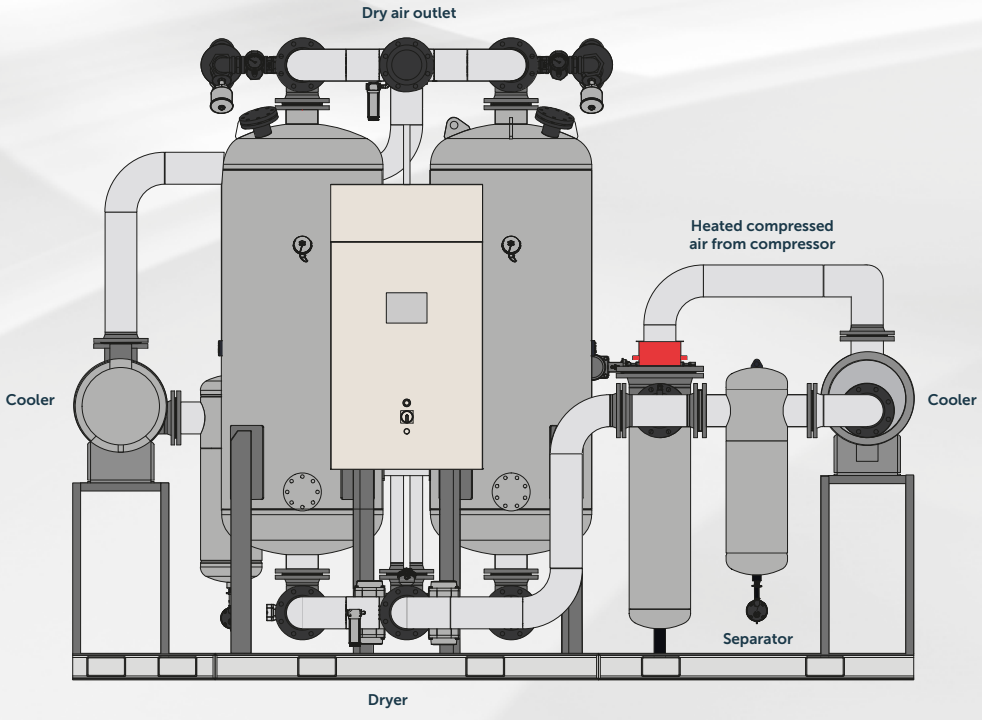
Working Principle

Mikropor HOC Series Compressed Air Dryers offer the opportunity to reduce energy costs with highly efficient compressed dry air production. Thanks to zero-purge, it provides the production of compressed dry air required for the compressed air system with very low energy costs.

In order to ensure dew point stabilization, there is a regeneration method with high temperature compressed air coming out of the compressor. The design of MHOC Dryers provides -40°C/-40°F dew point stabilization with high performance option (stripping) and cooling cycles.

High temperature compressed air coming out of the compressor enters the MHOC dryer and is directed to the regeneration tower. The compressor aftercooler outlet is used for the cooling process and the regeneration is completed relatively. During the regeneration, compressed air is also transferred to the dry air production tank to reach the -40°C/-40°F dew point without loss.

MHOC Dryer



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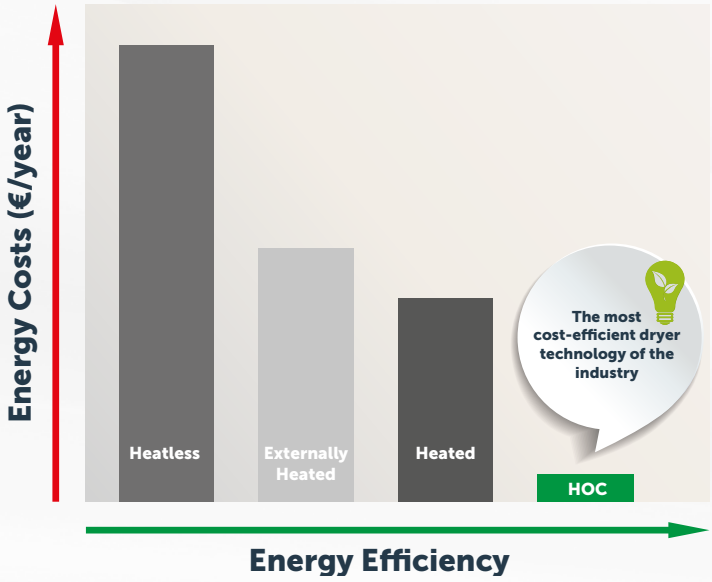

Technical Specifications

Model	Capacity	
	(m^3/h)	(cfm)
MHOC 575	575	340
MHOC 680	680	400
MHOC 850	850	500
MHOC 1000	1000	590
MHOC 1250	1250	735
MHOC 1500	1500	885
MHOC 1800	1800	1060
MHOC 2200	2200	1295
MHOC 2700	2700	1590
MHOC 3200	3200	1885
MHOC 3600	3600	2120
MHOC 4400	4400	2590
MHOC 5000	5000	2940
MHOC 6300	6300	3705
MHOC 7200	7200	4235
MHOC 8800	8800	5180
MHOC 10800	10800	6350

Performance Data		
Max. Working Pressure (bar)	Pressure Drop (mbar)	Voltage
10	≤130	400V/3Ph/50Hz

* Given flows are at 7 barg pressure with reference to 20°C and 1 bar atmospheric air suction per ISO7183.

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