

MH Series

Modular Heatless Desiccant Dryer

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Contact Information:



Modular Heatless
Desiccant Air Dryer
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Introduction

The MH Series modular heatless desiccant air dryer is designed to provide maximum flexibility in compressed air systems. Tailored to meet the rigorous demands of various applications, the MH Series offers unparalleled efficiency, reliability while covering pressure dew points from -40°C to -70°C.

The MH Series modular dryers can offer our clients the most advanced, energy-efficient compressed air systems and help them achieve optimal air quality and operational excellence.

High Quality Dry Air

Pressure dew points from -40°C to -70°C and corresponds to ISO 8573-1 class 1 & 2

Energy Efficiency

The MH Series features our advanced Energy Management System (EMS) is optional and provides a low pressure drop 0.18 barg with possible purge reduction on compressed air demand (on/off load control)

Advanced Control

Several auto-alert options, Modbus-ready design, RS-485 communications equipped with MH Series. And the compressor interlock function reduces the timing of the purge cycle based on compressed air demand.

Modularity (MH5J – 25J)

MH Series can be wall-mounted or installed horizontally, with piping installation possible on left or right side. This, combined with modular design not only simplifies initial installation but also makes future expansions or modifications hassle-free.

User-Friendly

Particularly quiet operation and innovative design allows for quick installation and easy maintenance. Selected models also incorporated an easy-to-use control interface and automatic maintenance alarms, making them a user favorite.



Optional Functions

- **EMS (Energy Management System)**
 - The operation of the dryer is adjusted according the outlet air Dew Point Temperature measured by a precision sensor
 - EMS takes over compressor interlock function
 - Interlock function is the basic standard for models of MH40 and larger
- **PDP -70°C**
 - Class 1 Pressure Dew Point applications (according to ISO 8573-1-2010)

MH Series

Features

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Micro-processor (MH5J – 25J)

- Easy to use
- Compact, fit the small units
- Cycle time indication
- Display drying/regeneration of right/left tower
- Intuitive interface, simple navigation

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Digital Controller (MH40J and larger)

Intuitive interface, simple navigation

Preventive maintenance alerts

Alerts based on running hours

Maintenance alerts for:

- Filter Element Change-out
- Muffler Replacement
- Valve Replacement
- Desiccant Change-out
- Dew Point Sensor Service (only with EMS)

Proactive maintenance for dryer reliability and customer uptime

1

2

2

Connectivity

- Modbus-Ready
- RS-485 Communications:
 - Easier integration into a wide variety of DCS systems
 - Remote alarm
 - Communicates common alarm through Modbus

Compressor Interlock Function

- Reduce the timing of the purge cycle based on compressed air demand
- The controller monitors the cycle rate of the air compressor load/unload to effectively reduce timing of purge

(When more than one compressor is connected to MH the on/off relay of compressor with the lowest pressure set point, must be used)



Specifications

Model	Capacity		Connections	Dimensions	Weight	PDP	
	(m³/h)	(scfm)				standard (°C)	optional (°C)
MH5J	5	3	3/8"	423 x 238 x 212	11	-40°C	N/A
MH15J	15	9		823 x 238 x 212	18		
MH25J	25	15		1,073 x 238 x 212	27		
MH40J	40	24	3/4"	968 x 475 x 405	44		-70°C
MH55J	55	32		1,118 x 475 x 405	50		
MH70J	70	44		1,318 x 475 x 405	60		
MH100J	100	62	1"	1,673 x 475 x 405	73		
MH150J	150	93		1,873 x 475 x 405	90		
MH200J	200	118	1 1/2"	1,705 x 536 x 495	177		
MH250J	250	147		1,905 x 536 x 495	180		
MH300J	300	177		1,905 x 536 x 495	188		