



MH Series | Heatless Regenerative Modular Air Dryer

Maximum Drying Using Minimal Space

The Pure-Aire MH Series is economical to use and provides a multitude of financial and energy saving benefits including an integral electronic drain and service warning light. This dryer can be linked with a compressor control system to reduce air consumption during periods of low demand. Additionally, with the built-in oil removal filtration it exceeds the highest standards of purity.

Benefits and Standard Features

- ✓ High Performance
- ✓ Economical to Use
- ✓ 0.01 Micron Oil Removal Filter
- ✓ Condensate Management
- ✓ Intelligent Processor
- ✓ Energy Management
- ✓ Improved Desiccant Cartridges
- ✓ Worldwide Installation

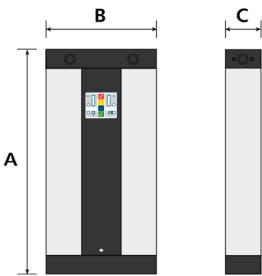


Additional Features

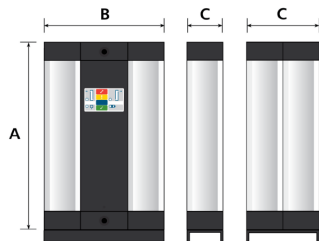
Removable front panel allows for easy access and servicing	Spring loaded desiccant cartridges to avoid desiccant attrition	Simple purge plug changeout, no need to dismantle units
Internal silencer to reduce noise levels	Standard controller incorporates an optional energy management system, which operates in conjunction with dedicated compressors	Clear cartridges designed to enable visible inspection of desiccant condition
Multi-voltage capabilities	Extruded aluminum towers fully painted for corrosion protection	Minimal serviceable spares
Suitable for worldwide installation	Suitable for wall and horizontal mounting	

Technical Specifications

Dryer Model	Pipe Size	Inlet Flow Rate		Dryer Configuration	Dimensions (Inches)			Weight		Dimensions (mm)		
		scfm	Nm ³ /h		A	B	C	lbs.	kg	A	B	C
MH-4N	3/8"	4	7	Simplex	17.5	11	3.6	29	13	445	281	92
MH-6N	3/8"	6	10	Simplex	20	11	3.6	31	14	504	281	92
MH-8N	3/8"	8	14	Simplex	22	11	3.6	33	15	565	281	92
MH-10N	3/8"	10	17	Simplex	25	11	3.6	36	16.5	635	281	92
MH-15N	3/8"	15	25	Simplex	32	11	3.6	43	19.5	815	281	92
MH-25N	3/8"	25	42	Simplex	42	11	3.6	53	24	1065	281	92
MH-35N	3/8"	35	59	Simplex	57.5	11	3.6	68	31	1460	281	92
MH-45N	3/4"	45	76	Simplex	28	20.5	7	117	53	652	520	164
MH-55N	3/4"	55	93	Simplex	31.8	20.5	7	130	59	752	520	164
MH-65N	3/4"	65	110	Simplex	36	20.5	7	141	64	852	520	164
MH-85N	1"	85	144	Simplex	43.5	20.5	7	165	75	1052	520	164
MH-105N	1"	105	178	Simplex	55.8	20.5	7	200	91	1362	520	164
MH-135N	1 1/4"	135	229	Simplex	63.5	20.5	7	225	102	1562	520	164
MH-175N	1 1/4"	175	297	Simplex	79.5	20.5	7	271	123	1962	520	164
MH-215N	1 1/2"	215	365	Duplex	55.8	20.5	13.5	379	172	1362	520	328
MH-275N	1 1/2"	275	467	Duplex	63.5	20.5	13.5	423	192	1562	520	328
MH-365N	1 1/2"	365	620	Duplex	79.5	20.5	13.5	511	232	1962	520	328



MH-4N—MH-35N



MH-45N—MH-365N

1. All models include a pre-filter.
2. 1 micron outlet dust filtration is built into all desiccant cartridges.
3. It is recommended that a water separator and a particulate grade filter (both not included as standard) precede the filter and dryer package.

Standard Pressure Dew Point	-40°F / -40°C
Optional Pressure Dew Point	-100°F / -70°C
Minimum Working Pressure	58 psig / 4 barg
Maximum Working Pressure	232 psig / 16 barg
Power Supply	100VAC to 240VAC to 12VDC to 24VDC
Minimum Inlet Temperature	35°F / 1.5°C
Maximum Inlet Temperature	122°F / 50°C
Minimum Ambient Temperature	41°F / 5°C

$$\text{Corrected Dryer Flow} = \frac{\text{Compressor Flow Rate}}{\text{PCF} \times \text{TCF} \times \text{DCF}}$$

Dryer Correction Factors

Operating Pressure psig / barg	58 / 4	72 / 5	87 / 6	100 / 7	116 / 8	130 / 9	145 / 10	160 / 11	174 / 12	189 / 13	203 / 14	218 / 15	232 / 16
Pressure Correction Factor (PCF)*	0.62	0.75	0.87	1.00	1.12	1.25	1.37	1.5	1.62	1.75	1.87	2.00	2.12

Temperature °F / °C	68 / 20	77 / 25	86 / 30	95 / 35	104 / 40	113 / 45	50 / 112
Temperature Correction Factor	1.07	1.06	1.04	1.00	0.88	0.78	0.55

Dew Point °F / °C	-40 / -40	-100 / -70
Dew Point Correction Factor (DCF)	1.00	0.7

*Always use the pressure correction factor (PCF) closest to the actual inlet pressure condition.

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