

# Modular Desiccant Air Dryers

The innovative, lightweight design of GlobalVac & Air's new Modular Desiccant Dryers introduces a revolutionary approach to compressed air technology. They provide exceptional installation versatility to meet diverse requirements. Combining proven drying principles with cutting-edge technology, these dryers deliver unmatched efficiency, adaptability, and reliability for your most critical applications.

Our Modular Desiccant Dryers are **lightweight, compact**, and **less than half the size** of traditional twin-tower designs, making them ideal for space-constrained installations and easy to move through standard doorways. These dryers can also be used in clean or showcase environments.

Available in capacities from **3 SCFM to 240 SCFM**, with dew points from **-40°F to -94°F** (optional), they come fully equipped and require only air inlet/outlet connections for operation.

Featuring a highly engineered inlet and purge manifold design, GlobalVac & Air offers one of the industry's lowest pressure-drop desiccant dryers.

## Key Features:

- Compact, lightweight design with a small footprint
- Corrosion-resistant aluminum construction
- Reliable, hassle-free electronic controls
- Versatile mounting options: floor, bench, or wall-mounted
- Quiet operation for any work environment
- Simple installation and maintenance

## Flexible Mounting Options

Our Modular Desiccant Dryers can be effortlessly mounted to a wall using easy-to-use brackets to save space or conveniently installed on the ground as needed.



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(508) 230.9445  
[www.globalvacandair.com](http://www.globalvacandair.com)

# Technical Specifications

Model	Capacity (scfm)	Connection Size (NPT)	Max. Working Pressure (psi)	Voltage	Weight (lb/kg)	Dimensions		
						Length (in.)	Width (in.)	Height (in.)
MDRY-3	3	1/2"	230	115-240V/1/50-60Hz.	37 / 17	13.2	12.6	22
MDRY-5	5	1/2"	230	115-240V/1/50-60Hz.	41 / 19	12.6	12.6	25
MDRY-10	10	1/2"	230	115-240V/1/50-60Hz.	59 / 27	12.6	12.6	35.5
MDRY-15	15	1/2"	230	115-240V/1/50-60Hz.	68 / 31	13.8	14.5	31.8
MDRY-20	20	1/2"	230	115-240V/1/50-60Hz.	92 / 42	13.8	14.5	43.6
MDRY-25	25	1/2"	230	115-240V/1/50-60Hz.	105 / 48	13.8	14.5	49.5
MDRY-30	30	1/2"	230	115-240V/1/50-60Hz.	118 / 54	13.8	14.5	59.4
MDRY-40	40	1 1/2"	230	115-240V/1/50-60Hz.	143 / 71	19.5	16.1	49.2
MDRY-50	50	1 1/2"	230	115-240V/1/50-60Hz.	156 / 78	19.5	16.1	55.1
MDRY-60	60	1 1/2"	230	115-240V/1/50-60Hz.	171 / 92	19.5	16.1	68.8
MDRY-75	75	1 1/2"	230	115-240V/1/50-60Hz.	202 / 120	24.5	17	51.1
MDRY-100	100	1 1/2"	230	115-240V/1/50-60Hz.	264 / 133	24.5	22	58
MDRY-120	120	1 1/2"	230	115-240V/1/50-60Hz.	292 / 152	24.5	25	68.8
MDRY-180	180	1 1/2"	230	115-240V/1/50-60Hz.	409 / 186	28.9	16.1	59
MDRY-240	240	1 1/2"	230	115-240V/1/50-60Hz.	517 / 235	35	16.1	59

## PLC Monitor

The mini PLC provides an intuitive interface, displaying real-time working actions. An accessible plug beneath the dryer enables alarm signals or remote control for added convenience. An optional dewpoint monitor can be incorporated into the unit to enable purge/energy savings. We also offer an upgraded PLC with an HMI on the unit that can be combined with the optional dewpoint monitor.



Pressure dewpoint	-40 °F -94 ° F (optional)
Nominal inlet temperature	100°F
Nominal working pressure	100 psi
Maximum inlet temperature	122°F
Maximum working pressure	230 psi
Maximum ambient temperature	122°F

## Correction Factor

Pressure (psi)	50	60	70	80	90	100	110	120	130	140	150	175	200	225	250
Factor Pressure F1	0.56	0.65	0.74	0.83	0.91	1	1.06	1.08	1.12	1.16	1.2	1.29	1.37	1.45	1.52
Inlet Temp. (° F)	70	80	90	100	105	110	115	120							
Factor Inlet F2	1.12	1.09	1.06	1	0.93	0.86	0.8	0.75							

If an air compressor delivers 70 scfm at 90 psi with 110° F inlet temperature please choose your dryer model as follow:  
**70 scfm I 0.91 / 0.86 = 90 scfm your model is MDRY-100**

