



*60MPS with Optional  
Factory Mounted Pre- and After-filters*

# Hydronix™

## Desiccant Air Dryers

**MPS Models, 20-60 SCFM**

Hydronix™MPS Desiccant Air Dryers provide extremely dry compressed air for low volume, moisture-sensitive applications. They incorporate a heatless purge process in a twin-tower design to deliver dry compressed air with -40°F pressure dew point. Models designed to achieve dew points as low as -80°F and -100°F are also available.

### **Reliable Valves**

Non-lubricated, electrically operated solenoid valves provide long, reliable service life. To minimize maintenance time and cost, the dryers are designed to allow solenoid head replacement without removal of the valve body from the dryer.

### **Maintenance-Free Solid State Timer**

Dryer operation is controlled by ZEKS' time-proven Solid State Timer. This rugged component coordinates operation of switching and purge valves as well as annunciation of optional alarm conditions. Unlike electric cam timers that are susceptible to wear and require maintenance and periodic adjustment, ZEKS' solid state timer is maintenance-free for reliable, economical dryer operation.

### **Energy Saving Moisture Load Control**

The Moisture Load Control option uses a dedicated solid state controller with a moisture analyzer for measurement of in-bed moisture content. This enables adjustment of the dryer operating cycle to reflect actual demand. Particularly well-suited to low flow or varying flow applications, ZEKS Moisture Load Control can significantly reduce the purge air requirement, providing a proportional savings in energy cost. MPS dryers equipped with Moisture Load Control also include a Failure-To-Shift Alarm (FTS).

**Look to Hydronix™ for continuous, trouble-free operation in moisture-sensitive applications.**

*See reverse side for Technical Specifications*

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## Desiccant Air Dryers

### Standard Features

- Power Cord
- Wall Mounting (Std. units only)
- Power ON Light
- Tower Sequencing Lights
- Tower Pressure Gauges
- Removable Stainless Steel Retainer Screens
- Separate Fill and Drain Ports
- Solid State Timer Controls
- Initial Desiccant Charge (Installed)
- 115/1/60 & 110/1/50 Electrical

### Optional Features

- Moisture Load Control (includes FTS)
- High Humidity Alarm
- Failure-To-Shift Alarm (FTS)
- Tower Pressure Relief Valves
- Adjustable Purge
- NEMA 4
- Moisture Indicator
- Pneumatic Operation
- Remote Alarm Contacts
- Factory Mounted Filter Packages
- UL/ULC Certified Enclosure

### Technical Specifications

Model	Capacity SCFM* @ Pressure Dew Point			Overall Dimensions			Connection Size In/Out	Ship Weight Lbs.	Desiccant Weight Lbs.	Maximum Working Pressure psig
	-40°F PDP	-80°F PDP	-100°F PDP	W In.	D In.	H In.				
20MPS	20	16	16	22	15	31	1/2" FPT	180	22	150
30MPS	30	24	24	22	15	44	1/2" FPT	240	44	150
40MPS	40	32	32	22	15	44	3/4" FPT	265	44	150
60MPS	60	48	48	22	15	56	3/4" FPT	350	65	150

\* Performance data obtained and presented in accordance with CAGI Standard No. ADF 200, "Desiccant Compressed Air Dryers – Methods for Testing and Rating." Pressure dew point at 100 psig, 100°F inlet air, 100°F ambient air.

Note: Weights indicated are approximate.

Note: Operating dryers without a coalescing filter with auto drain will void warranty.

### MPS Sizing Procedure

For inlet flows at operating pressures other than 100 psig, multiply the standard capacity of the dryer by the correction factor indicated in the table below.

Example: What is the flow capacity of a 40MPS operating at 90 psig?

$$40 \text{ SCFM} \times .91 = 36.4 \text{ SCFM @ 90 psig}$$

For purge air requirements, multiply the inlet flow by the purge rate factor from the table.

$$36.4 \text{ SCFM} \times .160 = 5.8 \text{ SCFM @ 90 psig}$$

$$\text{Outlet Flow} = \text{Inlet Flow} - \text{Purge Flow}$$

### Operating Conditions

Pressure psig	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Correction Factor	.78	.82	.87	.91	.95	1.00	1.04	1.09	1.13	1.17	1.22	1.26	1.30	1.35	1.39	1.44
Purge Rate	.190	.180	.170	.160	.155	.150	.140	.135	.130	.125	.120	.117	.113	.109	.106	.102



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