REGENERATIVE DESICCANT

AIR DRYERS

HR-SERIES

TWIN TOWER ENGINEERING, INC.

Design Features:

- Solid state timer with LED display for visual monitoring and built in timer memory.
- Low velocity air through the desiccant for more efficient drying.
- Large internal air passages to reduce pressure drop.
- Timing cycle is 50% longer than competitive dryers, allowing less desiccant shocking and less wear on the valves.
- Only eight threaded connections, 75% less possible leak points than competitive units.
- Components are all easily serviced and field replaceable.
- NEMA 4 electrical rating standard.
- Repressurization before tower switch-over causes less desiccant bed shock and no pressure fluctuations with cycling.

Typical Applications:

Air Bearings
Air Brushing
Air Operated Pumps
Air Turbines
Antenna Pressurization
Car Wash Controls
CEMS Systems
Dental Compressors
Dry Sprinkler Systems
Electronic Chip Testing
Environmental Chambers
FTIR Spectrometers
Gas Chromatographs
Graphic Printers
Laboratory Analyzers
NMR Spectroscopy
Outdoor Air Lines
Outdoor HVAC Controls
Ozone Generators
Pneumatic Automation
Robotic Machinery
Vortex Tubes
Waveguide Pressurization

Specifications:

MODEL NUMBER		HR1	HR2	HR3	HR4	HR5	HR6	HR6.5	HR7
Flow Capacities at 100 PSIG *(SCFM)*									
Inlet Flow		3.0	6.0	9.0	12.0	16.0	25.0	35.0	50.0
Purge Flow		0.8	1.6	2.4	3.2	3.4	5.4	7.8	10.8
Outlet Flow		2.2	4.4	6.6	8.8	12.6	19.6	27.2	39.2
****Flow Capacities at 150 PSIG*** *(SCFM)*									
Inlet Flow		4.2	8.4	12.9	17.2	22.5	35.9	50.3	71.9
Purge Flow		0.8	1.5	2.4	3.3	3.4	5.5	8.0	11.1
Outlet Flow		3.4	6.9	10.5	13.9	19.1	30.4	42.3	60.8
****Flow Capacities at 50 PSIG*** *(SCFM)*									
Inlet Flow		1.7	3.4	5.1	6.8	9.0	14.1	19.6	28.2
Purge Flow		0.7	1.4	2.1	2.8	3.0	4.8	7.7	9.7
Outlet Flow		1.0	2.0	3.0	4.0	6.0	9.3	11.9	18.5
Inlet/Outlet Connections *(npt)*		3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"
Dimensions *(Inches)*	Height	13.6	18.2	17.3	20.1	33.0	41.9	39.3	46.3
	Width	7.4	7.4	7.4	7.4	9.5	9.5	10.0	10.0
	Depth	5.2	5.2	5.2	5.2	6.5	6.5	7.0	7.0
Weight *(Pounds)*		8	9	10	11	29	34	59	65

**indicates flow capacitiess with orifice change*

Model Selection:

MODEL NUMBER

H R ☐ – ☐ ☐ ☐ ☐ ☐ ☐ ☐

Dryer Model
- HR1
- HR2
- HR3
- HR4
- HR5
- HR6
- HR6.5
- HR7

Voltage
- 1 = 115/1/50/60
- 2 = 230/1/50/60

Performance
- 1 = Standard Conditions - purge orifice drilled for 100 PSIG, 100°F, -40° PDP.
- 2 = Non-Standard Conditions - purge orifice drilled for other conditions. Consult factory for calculation of custom sized purge orifice with the following information :
  Inlet Pressure, Inlet Temperature, Inlet SCFM or Outlet SCFM, Desired Outlet Dew Point.

Options
- B = 3 Valve Bypass Piping Kit
- F = Filter Kit (5-micron and 0.01 micron Prefilters, 0.5 micron Afterfilter)
- H = High Humidity Alarm Panel with local light and dry contacts (shipped loose for remote mounting)
- M = Moisture Indicator
- P = Tower Pressure Gauges
- S = Floor Stand Kit
- X = Explosion Proof Control Box

All Models:	-Maximum temperature	120°F ambient
	-Maximum pressure:	150 PSIG
	-Outlet dew point:	-40°F pressure dew point with 100°F saturated inlet (-100°F optional)
	-Recommended Filtration on inlet:	5.0 Micron filter and 0.01 Micron filter

Applications help is available
Call 1-800-700-8537.
We can recommend components for your dry air system design and customize our dryer design to fit your application.

To help preserve our natural resources, we have limited our catalog to these two pages and offer more detailed information on our website. Please visit us at www.airdryers.com to view this information.

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