

REGENERATIVE DESICCANT
AIR DRYERS



VSA SERIES



**TWIN TOWER
ENGINEERING, INC.**

Design Features:

- Solid state timer with built in timer memory enabling purge saving start-stop operation.
- Easy change, screw on desiccant towers.
- Direct acting solenoid valves for positive shifting and reliable flow control.
- Rugged and light weight aluminum construction.
- Ultra-compact size can be mounted in any position.
- Fixed orifice design for consistent, trouble-free purge flow.
- Components are all easily serviced and field replaceable.
- Purge mufflers and power cord standard.

Typical Applications:

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

Specifications:

MODEL NO.	VSA1	VSA2	VSA3	VSA4
Flow Capacities at 100 PSIG (SCFM)				
Inlet Flow	2.8	5.8	8.0	12.0
Purge Flow	0.8	1.7	2.5	3.2
Outlet Flow	2.0	4.1	5.5	8.8
*Flow Capacities at 150 PSIG (SCFM)				
Inlet Flow	4.0	8.3	11.3	16.7
Purge Flow	0.8	1.7	2.5	3.3
Outlet Flow	3.2	6.6	8.8	13.4
*Flow Capacities at 50 PSIG (SCFM)				
Inlet Flow	1.5	3.1	4.4	6.5
Purge Flow	0.8	1.6	2.4	3.3
Outlet Flow	0.7	1.5	2.0	3.2
Inlet and Outlet Connections (NPT)				
	1/4"	1/4"	1/4"	1/4"
Dimensions (Inches)				
Height	10.1	13.1	16.1	24.1
Width	8.0	8.0	8.0	8.0
Depth	4.8	4.8	4.8	4.8
Weight (Pounds)				
	7	8	9	14

**indicates flow capacities with orifice change - when ordering, see non-standard conditions below.*

Ordering Information:

MODEL NUMBER

V S A [] - [] [] [] []

Dryer Model

- VSA1
- VSA2
- VSA3
- VSA4

Voltage

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

Performance

- 1 = **Standard Conditions** - purge orific drilled for 100 PSIG, 100°F, -40° PDP.
- 2 = **Non-Standard Conditions** - purge orific 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

- F = Filter Kit (5-micron and 0.01 micron Prefilters with automatic drains, and 0.5 micron Afterfilter)
- H = High Humidity Alarm Panel with local light and dry contacts (shipped loose for remote mounting)
- M = Moisture Indicator (blue - pink color change)

All Models:

- Standard with purge mufflers and 6' power cord.
- 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 catalogue 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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