28 to 115 SCFM

DD
28 TO 115 SCFM
HEATLESS DESICCANT AIR DRYERS

- **-40° C/F Dew-Point Performance**
  Ideal for Applications Requiring Extremely Dry Compressed Air
- **Energy-Efficient Operation**
  Adjustable Purge Flow Aligned with Air Demand
- **PLC Controller**
  Allows Customization of Settings
- **Lower Energy Costs**
  Reduced Purge Time During Regeneration Cycle
- **5 Year Limited Warranty**
  Rugged Construction & Long Life

DV Systems. Built Better.

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28 TO 115 SCFM
HEATLESS DESSICANT AIR DRYER

DD Series Heatless, Regenerative Desiccant Air Dryers feature -40º C/F dew-point performance, making them ideal for flow applications requiring extremely dry compressed air.

Equipped with a Purge Adjusting Valve, energy-efficient operation is optimized by allowing purge flow to be adjusted and aligned with system-specific air demands. Energy costs are reduced by optimizing the time the Air Dryer spends purging during the regeneration cycle.

VALVES & FILTERS

- Purge adjusting valve
- Two normally open inlet solenoid switching valves
- Two pneumatically operated purge exhaust valves
- One shuttle valve
- Re-pressurization valve to prevent desiccant bumping
- Stainless steel retainers
- 0.01 Micron coalescing filter on the inlet and 1 micron particulate filter on the outlet with automatic drain valves

INSTRUMENTATION

- PLC Controller
- Left and right tower pressure gauges
- Purge pressure gauge
- Moisture indicator – Alerts operator of elevated dew point
- Throttling valve – Allows accurate purge pressure adjustment

SAFETY & CODE COMPLIANCE

- Twin desiccant towers built to ASME codes and CRN registered
- DD dryers are CSA approved
- Two silencers (Purge mufflers)
- Two safety relief valves

ELECTRICAL

- NEMA 4 electrical enclosure with PLC controller
- Input = 120 V, 60 Hz, Single Phase
- Power consumption = 40 Watts

Model#	Inlet flow @	Dimensions			Connections	Weight	Applicable Filter Element	
	100 psi (SCFM)	Height	Width	Depth	(in)	(lbs)	Inlet	Outlet
DD-28-00	28	44	22	18	1/2"NPT	165	SAF-E-35	SAF-A-35
DD-37-00	37	44	22	18	1/2"NPT	165	SAF-E-35	SAF-A-35
DD-60-00	60	54	29	20	3/4"NPT	250	SAF-E-64	SAF-A-64
DD-80-00	80	54	29	20	1"NPT	255	SAF-E-120	SAF-A-120
DD-100-00	100	59	30	20	1"NPT	345	SAF-E-120	SAF-A-120
DD-115-00	115	59	30	20	1"NPT	345	SAF-E-120	SAF-A-120

SIZING INFORMATION

The listed flow capacities of all dryer models are based on a maximum inlet air temperature of 100° F (37.8°C) and a minimum inlet pressure of 100 psig.

To find the required flow of a dryer operating above or below these design parameters use the following formula:

Dryer Flow Capacity = Nominal Dryer Flow x Inlet Temperature Multiplier x Inlet Pressure Multiplier

To determine the flow of air available at the outlet of dryer, subtract purge flow from the inlet flow.

Inlet temp.°F	Multiplier	Inlet Press. psig	Multiplier
120	1.78	150	0.7
115	1.55	140	0.74
110	1.34	130	0.79
105	1.16	125	0.82
100	1	120	0.85
95	0.86	110	0.92
90	0.73	100	1
85	0.63	90	1.1
80	0.53	80	1.21

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