

Low Dew Point Desiccant Dryers

FEATURES

Performance

- Selectable Dew Points
-40 Deg F and -100 Deg F

Adjustable Purge Control

- Saves Energy
- Reduce Purge Flow when low dew point is not required

Programmable Controller

- Field Adjustable
- Password Protectable
- Eeprom Backup

Canadian Certified

- CRN'd for Canada
- ASME built
- CSA approved

If it's Air, it's CEA

Custom Energized Air

1055 - 78 Ave
Edmonton AB
T6P 1L8

2121D-39 Ave NE
Calgary AB
T3E 6R7

12, 7460 49 Ave
Red Deer AB
T4P 1M2

Phone: 800-251-9707
Fax: 780-466-4937
Email: info@cea-air.com

Airforce Regenerative Skidded Dryers

Airforce regenerative desiccant dryers will produce a consistent dew point with minimum maintenance and maximum reliability. To achieve these consistent dew points, the dryer towers have been specifically designed to maximize contact time between the saturated inlet air and the desiccant bed while eliminating bed channeling and minimizing pressure drop.

Time proven and dependable switching valves are specifically designed for compressed air service and require no lubrication. They are resistant to desiccant dust and can be maintained without being removed from the dryer.

When reliable moisture free air is needed for your critical applications, Airforce regenerative dryers are your first choice.



Model HR1600-S

Standard Features

- Generous quantities of activated alumina desiccant
- Non-lubricated inlet air valves
- Safety relief valves and pressure gauges for each tower
- ASME built and CRN'd for Canada
- Programmable controller with backup battery and program eeprom
- Adjustable purge air control valve
- NEMA 4/4X 115/1/60 electrical
- Temperature controlled, air motor driven aftercooler to conserve air
- User selectable -40 Deg F or -100 Deg F pressure dew point
- Super quiet purge air mufflers
- Skidded construction for extreme outdoor conditions
- Purge flow gauge
- Low pressure drop
- Stainless steel flow diffusers
- Simplicity of operation

Engineering Data

Flow Capacities

A. Maximum inlet flow capacities at various pressures:

To determine maximum inlet flow at inlet pressures other than 100 psig, multiply inlet flow from Table 1 by multiplier from Table 2 that corresponds to system pressure at inlet of dryer.

B. Outlet flow capacities:

To determine outlet flow capacity subtract maximum purge flow from inlet flow. For dryers operating at less than maximum flow and using the Adjustable Purge Control feature and/or operating at pressures above 100 psig, contact factory for correct purge flow.

C. High flow models:

For applications requiring flow rates greater than listed in Table 1, please contact Custom Energized Air.

Table 1

Airforce HR Series Skidded Desiccant Dryers

Model	Inlet Flow (SCFM) @ 100 PSIG	Purge Rate	Outlet Flow	In/Out Size	Dimensions			Weight (Kg)		MWP
					D	W	H	Desiccant	Total	
HR60**	60	9	51	1" NPT	21"	38"	57"	33	153	150 PSIG
HR75**	75	11	64	1" NPT	21"	38"	57"	41	161	
HR100**	100	15	85	1" NPT	21"	38"	57"	54	210	
HR125**	125	18	107	1" NPT	22"	38"	65"	68	220	
HR185-S	185	28	157	1" NPT	60"	60"	72"	92	580	
HR210-S	210	31	179	1½" NPT	60"	60"	72"	109	625	150 PSIG
HR250-S	250	37	213	1½" NPT	60"	60"	83"	135	704	
HR280-S	280	42	238	1½" NPT	60"	60"	83"	150	748	
HR350-S	350	52	298	1½" NPT	60"	60"	83"	190	860	
HR400-S	400	60	340	2" NPT	72"	60"	87"	218	1230	150 PSIG
HR500-S	500	75	425	2" NPT	72"	60"	87"	282	1360	
HR750-S	750	112	638	2" NPT	72"	72"	91"	395	1540	
HR800-S	800	120	680	2" NPT	72"	72"	91"	435	1620	
HR1200-S	1200	180	1020	3" NPT	84"	84"	103"	650	2360	150 PSIG
HR1400-S	1400	210	1190	3" NPT	84"	84"	103"	760	2636	
HR1600-S	1600	240	1360	3" NPT	84"	84"	103"	870	2750	

* Larger sizes are available, consult Factory.

* Specifications are subject to change without notice.

** Non-skidded models

Table 2

Inlet Condition Correction Factors

- For conditions other than standard, use correction factors. Maximum inlet air temperature is 120°F.
- Maximum intermittent working pressure is 165 psig.

Inlet Pressure	Capacity Multiplier
150	1.35
140	1.30
130	1.25
120	1.17
110	1.09
100	1.00
90	0.90
80	0.80
70	0.70
60	0.60

Operating Pressure	Purge Flow %
150	11.2
140	11.6
130	12.0
120	12.7
110	13.5
100	14.6
90	15.9
80	17.5
70	19.7
60	22.5

Inlet Temp. °F	Capacity Multiplier
120	0.67
110	0.76
100	1.00
90	1.125
80	1.14

Recommended Filters

Airforce pre particulate and coalescing filters are recommended ahead of the dryer to protect the desiccant beds. A particulate filter is recommended after the dryer to remove fines and protect downstream components.

Optional Equipment

Heated Purge, Dew Point Monitoring, Purge Saver Control, Dry Alarm outputs, Pneumatic controls, Other power supplies, Explosion Proof units, Special Application models for process industries, oil and gas industry, etc.