

# H Series | Heatless Regenerative Air Dryer

# High Performance with Maximum Service Life

The Pure-Aire H Series consistently delivers a -40°F pressure dew point (-100°F optional). We continuously review feedback from engineers, service technicians, and our customers, and this has driven us to produce the most reliable and serviceable designs available. The Pure-Aire line of compressed air dryers are engineered, assembled, and supported in the United States.

## **Benefits and Standard Features**

- ✓ NEMA 4 Enclosure
- eControl with Simplified Interface
- Pre and After-Filters Mounted and Piped
- Nickel Plated Check Valves with Stainless Steel Discs for Maximum Life
- High Efficiency Mufflers with Integrated Safety Valve to Keep Dryer Running
- Indication of Tower Operation
- Countdown to Switchover
- Robust Full Contact Steel Frame
- ASME Coded Pressure Vessels (CRN optional)
- Replaceable Stainless Steel Diffusers
- Filtered Pilot Air

## **Optional Features**

- Digital Dew Point Display
- eDemand
- Air Flow Meter with Display
- Fail to Shift Alarm
- Visual Moisture Indication
- -100°F Pressure Dew Point

# \*Custom Designs Available

- 3 or 9 Valve By-Pass Piping
- Modbus Communication
- Flow Chart
- Color HMI Graphical Display
  - Dew Point Chart
  - Flow Chart

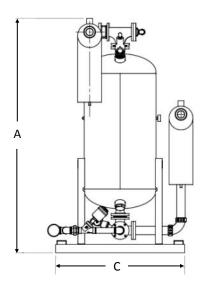


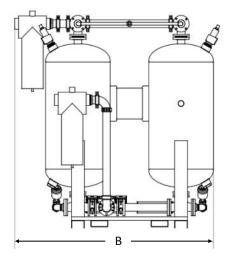


# **Technical Specifications**

Flow Range at 100 psig (7 barg)	80 to 10,000 scfm
Dew Point (°F)	-40°F (-100°F optional)
Maximum Operating Pressure	150 psig (standard)
Minimum Operating Pressure	80 psig
Nominal Inlet Temperature	100°F
Inlet Temperature	35°F to 120°F
Standard Electrical Supply	115V / 1Ф / 60Hz

Model	scfm	In/Out	Height (A) (Inches)	Length (B) (Inches)	Width (C) (Inches)	Weight (lbs.)	
H80	80	1" NPT	85	36	22.5	450	
H100	100	1" NPT	85	36	22.5	475	
H125	125	1" NPT	85	36	22.5	550	
H150	150	1" NPT	85	36	22.5	650	
H200	200	1 1/2" NPT	82.5	50	35.5	800	
H250	250	1 1/2" NPT	82.5	50	35.5	1,100	
H300	300	1 1/2" NPT	82.5	50	35.5	1,300	
H400	400	2" NPT	89	50	42	1,700	
H500	500	2" NPT	89	50	42	2,000	
H600	600	2" NPT	89	50	42	2,300	
H900	900	3" FLG	94.25	68	48	2,600	
H1100	1100	3" FLG	94.25	72	46	3,800	
H1250	1250	3" FLG	94.25	72	46	4,100	
H1500	1500	3" FLG	94.25	72	49	4,400	
H2000	2000	3" FLG	94.25	72	49	4,900	
H2500	2500	4" FLG	109	93	50	5,900	
H3000	3000	6" FLG	109	93	50	7,500	
H3500	3500	6" FLG	117	118	64	8,500	
H4000	4000	6" FLG	122	120	64	9,500	
H4500	4500	6" FLG	122	120	64	11,000	
H5000	5000	6" FLG	122	120	64	13,500	





## Flow Correction Factors

# Inlet Air Temperature Correction

°F	Between 35 and 100	100	105	110	115	120
°C	1.7 and 37.8	37.8	40.6	43.3	46.1	48.9
Factor	1.00	1.00	0.93	0.87	0.81	0.76

#### Inlet Air Pressure Correction

psig	50	60	70	80	90	100	110	120	150	175	200	225	250
barg	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	10.3	12.1	13.8	15.5	17.2
Factor	0.56	0.65	0.74	0.83	0.91	1.00	1.09	1.17	1.44	1.66	1.87	2.09	2.31

Air Flow Capacity = Nominal Capacity of the Dryer x Inlet Temperature Correction x Inlet Pressure Correction

# **Contact Us** 1-800-274-3233 sales@pure-aire.com www.pure-aire.com