nano

twin tower high pressure heatless desiccant dryer

FEATURES

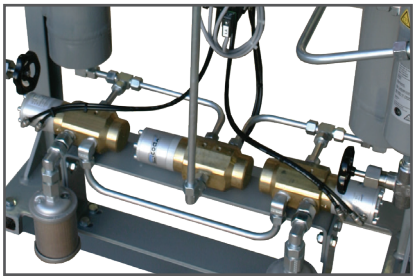
- removal of water vapor from your compressed air stream to -40°F (-4°F and -67°F optional) to ensure a continuous supply of dry air in high pressure applications
- 18 models from 42 to 918 scfm and operating pressures of 1450, 3625 or 5075 psig
- welded, coated steel twin tower design with high-quality, durable coating meets the highest safety standards
- advanced controller monitors and controls the fully automated drying and regeneration cycles
- high pressure filtration connected with high pressure 316 stainless steel pipe work and fittings included as standard (0.01 micron pre filter and 1 micron after filter)
- high quality 2-layer desiccant bed for stable drying and extended desiccant service life
- rugged and reliable control valves provide flow capacity and designed for durability, ease of maintenance and long service life
- easy maintenance
- applications include electronics, marine and offshore, military, chemical manufacturing, aerospace, CNG & biogas

dew point control option

energy savings dew point control continually monitors outlet dew point for maximum energy savings

individual valve control

provides a reliable compressed air supply with no pressure peaks during switch over



nano-purification solutions
charlotte, north carolina
united states

nano-purification solutions
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions
gateshead, tyne and wear
united kingdom

nano-purification solutions
erkelenz, germany

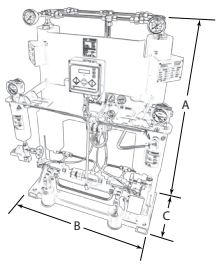
tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

SPECIFICATIONS

dryer model	inlet & outlet	rated flow [1]		dimensions (inches)			approx. weight
	NPT	scfm	Nm^3/h	A	B	C	lbs
DHP / 100 (1450 psig)							
DHP5/100	½"	42	72	45.4	25.0	15.7	220
DHP9/100	½"	51	87	47.4	25.0	15.7	243
DHP12/100	½"	90	153	48.0	26.9	15.7	254
DHP24/100	¾"	167	283	53.1	29.1	17.7	317
DHP37/100	¾"	252	429	55.5	31.8	17.7	441
DHP58/100	¾"	442	750	67.3	34.2	17.7	606
DHP / 250 (3625 psig)							
DHP5/250	½"	68	115	45.4	25.0	15.7	243
DHP9/250	½"	82	140	47.4	25.0	15.7	254
DHP12/250	½"	159	270	48.0	26.9	15.7	291
DHP24/250	¾"	294	500	53.1	29.1	17.7	430
DHP37/250	¾"	471	800	55.5	31.8	17.7	540
DHP58/25	¾"	824	1400	67.3	34.2	17.7	827
DHP / 350 (5075 psig)							
DHP5/350	½"	88	150	45.4	25.0	15.7	243
DHP9/350	½"	106	180	47.4	25.0	15.7	254
DHP12/350	½"	177	300	48.0	26.9	15.7	320
DHP24/350	¾"	309	525	53.1	29.1	17.7	496
DHP37/350	¾"	500	850	55.5	31.8	17.7	617
DHP58/350	¾"	918	1560	67.3	34.2	17.7	915

specifications	DHP / 100	DHP / 250	DHP / 350
maximum particle size (ISO class) [2]	class 2 (1 micron)	class 2 (1 micron)	class 2 (1 micron)
maximum water content (ISO class) [2]	class 2 (-40°F) [3]	class 2 (-40°F) [3]	class 2 (-40°F) [3]
maximum oil content (ISO class) [2]	class 1 (0.01 mg/m^3)	class 1 (0.01 mg/m^3)	class 1 (0.01 mg/m^3)
minimum operating pressure	435 psig	1450 psig	3625 psig
maximum operating pressure	1450 psig	3625 psig	5075 psig
recommended operating temperature range	40 to 100°F	40 to 100°F	40 to 100°F
design operating temperature range	35 to 140°F	35 to 140°F	35 to 140°F
power supply requirements	120 & 240 VAC, 50/60 Hz [4]	120 & 240 VAC, 50/60 Hz [4]	120 & 240 VAC, 50/60 Hz [4]
power consumption	<50 W	<50 W	<50 W
control panel protection	NEMA 4X	NEMA 4X	NEMA 4X
valve switching power (per valve)	80 VA	80 VA	80 VA

material of construction	
vessels	carbon steel
frame & supports	carbon steel
valve block housing	anodized aluminum
valve seats	stainless steel & brass
piping & fittings	316 stainless steel
media	80% 4A molecular sieve, 20% WS silica gel



(1) at an outlet temperature of 95°F, an inlet pressure of 1450, 3625 or 5075 psig (as applicable) and -40°F outlet dew point. For all other operating conditions, contact support@n-psi.com for sizing assistance
(2) per ISO 8573.1:2010
(3) ISO class 2 (-40°F outlet pressure dew point) is provided as standard. -4°F or -67°F outlet pressure dew point are available as an option
(4) 24VDC available as option
(5) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

MEMBER OF CAGI Compressed Air & Gas Institute

publication ref. n-psi-D4-DHP2022-00-us