

AXHP High Pressure Refrigerated Dryers

Features

- Available in design pressures of 1200, 3625, 5000 and 6000 psig
- Features high-pressure 316 stainless steel, brazed plate heat exchangers, and stainless steel air-side components designed specifically for harsh environments.
- Incorporates a helical concentric tube-in-tube heat exchanger along with a centrifugal separator to effectively remove moisture from compressed air, achieving an impressive separation efficiency of over 98%.
- Reduced power and energy consumption
- Reliable and constant dew point performance in all flow conditions
- Lightweight and compact
- Environmentally friendly R134a refrigerant
- Pre and after high pressure filtration available for optimal energy savings
- Options include: water-cooled, NEMA 4, NEMA 4X and condenser cleaner assembly.

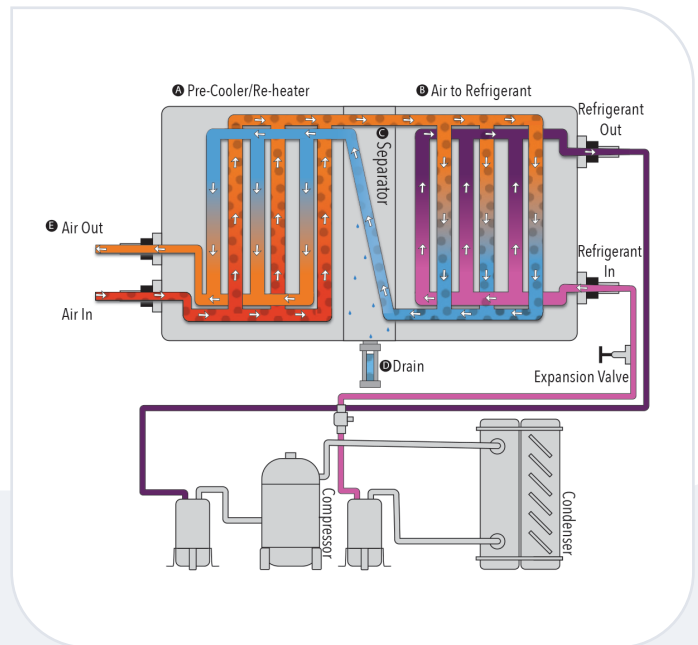


Application Driven



Designed for high-pressure applications within the food and beverage, oil and gas, pharmaceutical, power generation, automotive, aerospace and defense and metalworking industries.

How it Works



AXHP cools compressed air using a refrigerant circuit. The compressed air passes through an air-to-refrigerant heat exchanger, reducing its temperature. As a result, water vapor condenses into liquid, which is the separated and removed, leaving dry air.

nano R³: AXHP High Pressure Refrigerated Dryers

MODEL	INLET & OUTLET		RATED FLOW (SCFM) ⁽¹⁾				ABSORBED POWER KW	DIMENSIONS (INCHES)			APPROX. WEIGHT LBS	POWER SUPPLY (V/PH/60HZ)		
	NPT		@1200 PSIG	@3625 PSIG	@5000 PSIG	@6000 PSIG		H	W	D		115/1	230/1	460/3
AXHP-20	½"		20	20	20	20	0.29	22	24	18	71	•		
AXHP-30	½"		30	30	30	30	0.42	22	24	18	78	•		
AXHP-40	½"		40	40	40	40	0.57	22	24	18	102	•		
AXHP-60	½"		60	60	60	60	0.83	22	24	18	124	•		
AXHP-100	½"		100	100	100	100	1.05	30	36	25	162	•		
AXHP-125	½"		125	125	125	125	1.35	30	36	25	240		•	
AXHP-200	½"		200	200	200	200	1.99	30	36	25	345			•
AXHP-275	½"		275	275	275	275	2.53	45	34	45	567			•

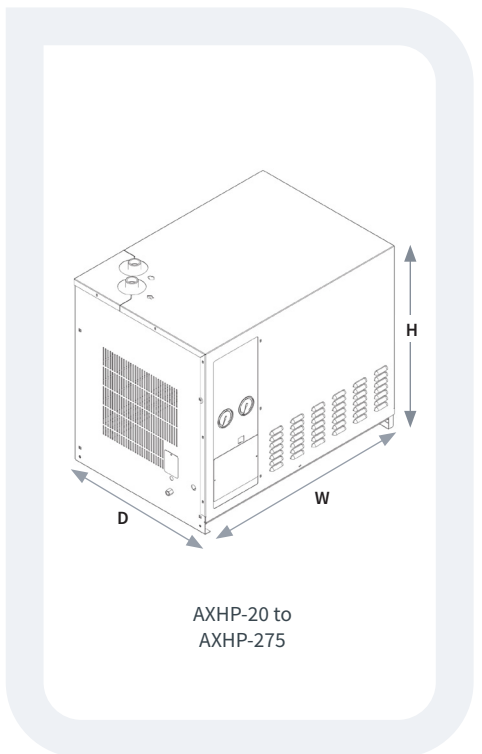
SPECIFICATIONS	STANDARD
Design operating pressure (psig)	40 to 200
Inlet air temperature range (°F)	40 to 120
Ambient air temperature range (°F)	40 to 120
Electrical class	NEMA 1
Outlet dew point (°F)	38
Initial ΔP (psid)	5

TEMPERATURE CORRECTION FACTORS ⁽²⁾							
Ambient temperature (°F)	70	80	90	100	110	115	120
Correction factor	1.10	1.07	1.05	1.00	0.94	0.85	0.65

TEMPERATURE CORRECTION FACTORS ⁽²⁾							
Inlet temperature (°F)	80	90	100	110	120	140	
Correction factor	1.50	1.21	1.00	0.82	0.75	0.61	

(1) Capacity rated in accordance with CAGI ADF 100 @ 100 psig, 100°F inlet, 100°F ambient, and a PDF of 38°F.

(2) To be used as rough guide only. All applications should be confirmed by nano. Contact support@nano-purification.com.



Technical specifications subject to change without notice.
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