# AXHP High Pressure Refrigerated Dryers

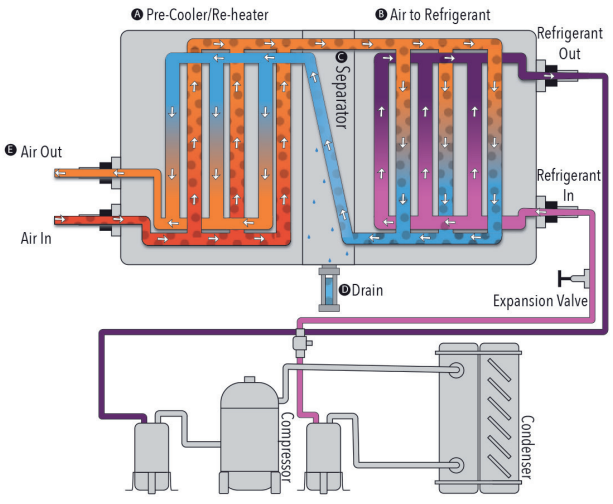

## Features

- 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

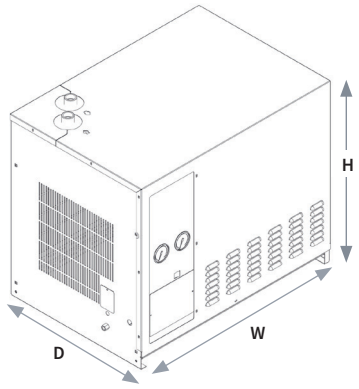
| MODEL | INLET & OUTLET | RATED FLOW (SCFM) [1] | | | | ABSORBED POWER | DIMENSIONS (INCHES) | | | APPROX. WEIGHT | POWER SUPPLY (V/PH/60HZ) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NPT | @1200 PSIG | @3625 PSIG | @5000 PSIG | @6000 PSIG | KW | H | W | D | LBS | 115/1 | 230/1 | 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 6000 |
| 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 △P (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@airandgassolutions.com.




AXHP-20 to
AXHP-275

Technical specifications subject to change without notice.
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