nano

nano R³: Compressed Air Dryers

APET-45

High-Pressure Refrigerated Dryers

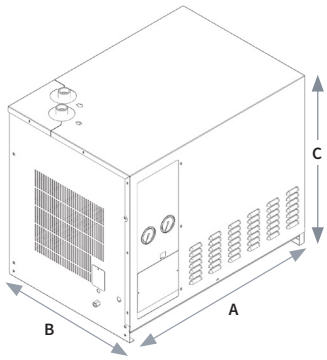


The nano APET Series offers efficient moisture removal, preventing condensation and corrosion within your compressed air system. Maintaining a low dew point ensures no moisture-related defects in your PET containers. With its ability to provide dry air, injection molding applications can produce precise, defect-free products. But that's not all! Whether testing PET-related components or evaluating other high-pressure systems, reliable air quality is essential to achieve accurate and repeatable test results. The APET Series delivers consistent dew points, making it the perfect solution to enhance the efficiency of your PET manufacturing process.

GENERAL CHARACTERISTICS	
Rated flow	31 scfm @ 500 psig 45 scfm @ 725 psig
Initial pressure drop (psid)	5
Air temperature at dryer outlet (°F)	69 to 80
Noise level (dB)	<85
Condenser heat rejected (Btu/hr)	2,637
Electrical connection (V/Ph/Hz)	115/5/60
Minimum circuit (amp)	6
Electrical protection class	NEMA 1
OPERATING LIMITS	
Design operating pressure range (psig)	225 to 725
Minimum/maximum ambient temperature (°F)	40 to 120
Maximum inlet temperature (°F)	120
Maximum pressure (psig)	725
REFRIGERANT GAS/CIRCUIT	
Refrigerant type	R-134a
Refrigerant charge per circuit (lbs)	0.56
COMPRESSORS	
Compressor type	reciprocating (hermetic)
Nominal HP	0.20
Compressor LRA (amp)	26
Compressor RLA (amp)	4.4
FANS	
Cooling air flow rate (cfm)	235
Fan motor quantity	1
Amps per motor	0.36
AIR CIRCUIT	
Air circuit connections	½"
DRAIN	
Drain outlet connection (ins)	¼"
Number of drains	1
Drain type	timer

Dimensions & Weight

DIMENSIONS AND WEIGHT	
A (ins)	26
B (ins)	20
C (ins)	24
Weight (lbs)	71



APET-45 to
APET-1000

nano R³: Compressed Air Dryers

HEAT EXCHANGER	
Number of heat exchangers (split system)	1
Air to air heat exchanger type	stainless steel brazed plate
Air to refrigeration heat exchanger type	stainless steel brazed plate
Separator type	external centrifugal

Features

- Design pressure up to 725 psig
- Features high-pressure 316 stainless steel, brazed plate heat exchangers, and stainless steel air-side components designed specifically for harsh environments.
- Achieves a separation efficiency of over 98% moisture separation by utilizing a double-circuit heat exchanger in combination with a centrifugal separator.
- Low power and energy consumption
- Reliable and constant dew point performance in all flow conditions
- Lightweight and compact
- Environmentally friendly R-134a refrigerant
- High-pressure and system performance pre and after filtration also available for optimal energy savings.
- Options include: water-cooled, NEMA 4, NEMA 4X and condenser cleaner assembly.
- Made in the USA

Technical specifications subject to change without notice.
Publication Reference: APET-45-CA-EN-Version-000
©2025 Air & Gas Solutions LLC

MEMBER OF CAGI Compressed Air & Gas Institute

nano
Experience. Customer. Service.

nano-purification solutions
www.nano-purification.com

Canada
St. Catharines, Ontario, Canada
Phone: +1 905 684 6266
Email: canadasupport@airandgassolutions.com

United States | Canada | United Kingdom | Singapore