nano

nano R³: Compressed Air Dryers

# APET-860

## High-Pressure Refrigerated Dryers

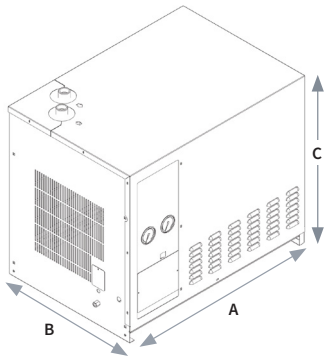



The nano APET Series offers efficient moisture removal, preventing condensation and corrosion within your compressed air system. Maintaining a low dew point ensures no moisture-related defects in your PET containers. With its ability to provide dry air, injection molding applications can produce precise, 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 | 593 scfm @ 500 psig<br>860 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) | 46,857 |
| Electrical connection (V/Ph/Hz) | 460/3/60 |
| Minimum circuit (amp) | 15.2 |
| 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) | 7 |
| **COMPRESSORS** | |
| Compressor type | scroll |
| Nominal HP | 3.5 |
| Compressor LRA (amp) | 63 |
| Compressor RLA (amp) | 9.6 |
| **FANS** | |
| Cooling air flow rate (cfm) | 2170 |
| Fan motor quantity | 1 |
| Amps per motor | 0.5 |
| **AIR CIRCUIT** | |
| Air circuit connections | 1" |
| **DRAIN** | |
| Drain outlet connection (ins) | ¼" |
| Number of drains | 1 |
| Drain type | timer |

## Dimensions & Weight

| DIMENSIONS AND WEIGHT | |
|---|---|
| A (ins) | 34 |
| B (ins) | 45 |
| C (ins) | 45 |
| Weight (lbs) | 582 |




APET-45 to
APET-1000

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| 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.
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