APET High-Pressure Refrigerated Dryers

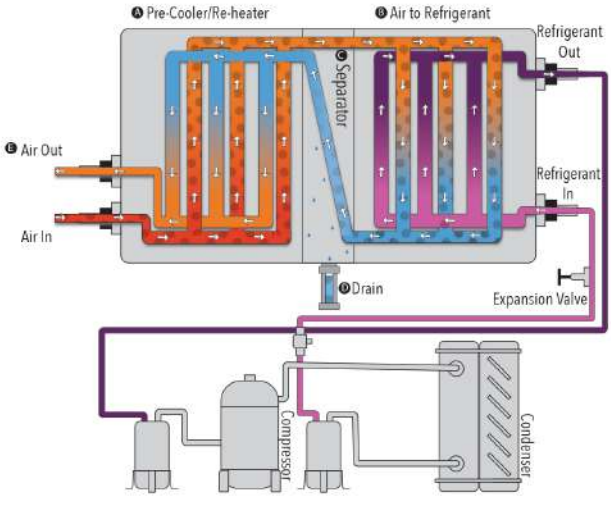
Features

- Design pressure of 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 R134a refrigerant
- High-pressure 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

Application Driven

Designed for PET container production, injection molding, component testing and naval and military applications.

How it Works



APET 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: APET PET High-Pressure Refrigerated Dryers

MODEL	INLET & OUTLET	RATED FLOW (SCFM) (1)		FULL LOAD AMPS	DIMENSIONS (INCHES)			APPROX. WEIGHT	POWER SUPPLY (V/PH/60HZ)		
	NPT	@725 PSIG	@500 PSIG		A	B	C	LBS	115/1	230/1	460/3
APET-45		45	31	4.5	16	16	15	71	•		
APET-65		65	45	5.5	16	16	15	78	•		
APET-80		80	55	8.0	16	16	15	102	•		
APET-125		125	86	8.0	24	18	22	124	•		
APET-200	1	200	138	14.5	36	25	30	162	•		
APET-260	1	260	179	13.5	36	25	30	240		•	
APET-415	1	415	286	8.0	36	25	30	345			•
APET-570	1	570	393	9.5	34	45	45	567			•
APET-860	1	860	593	12.5	34	45	45	582			•
APET-1000	1	1000	690	11.5	38	54	48	790			•

SPECIFICATIONS	STANDARD
Des gn operat ng pressure (ps g)	200 to 725
Inlet a r temperature range (°F)	40 to 120
Amb ent temperature range (°F)	40 to 120
Electr cal class	NEMA 1
Outlet dew po nt (°F)	38
In t al △P (ps d) (3)	5

TEMPERATURE CORRECTION FACTORS (2) (3)

Amb ent a r temperature (°F)	70	80	90	100	110	115	120
Correct on factor	1.10	1.07	1.05	1.00	0.94	0.85	0.65

TEMPERATURE CORRECTION FACTORS (2) (3)

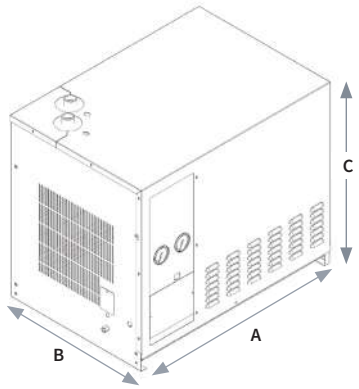
Inlet a r temperature (°F)	80	90	100	110	120
Correct on factor	1.50	1.21	1.00	0.82	0.72

PRESSURE CORRECTION FACTORS (2)

Inlet a r pressure (ps g)	725	500	225
Correct on factor	1.00	0.69	0.31

OUTLET PRESSURE DEW POINT CORRECTION FACTORS (2) (3)

Dew po nt (°F)	38	41	45	50
Correct on factor	1.00	1.12	1.17	1.22



APET-45 to
APET-1000

(1) Capac ty rated at 725 ps g, 100°F nlet, 100°F amb ent.
(2) To be used as rough gu de only. All appl cat ons should be con rmed by nano. Contact support@nano-pur cat on.com.
(3) If us ng correct on factors >1.00, the un t n t al △P (ps d) value w ll ncrease.

Experience. Customer. Service.

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