

Compressed Air Dryers

TC Series Non-Cycling Refrigerated Dryers



Moisture in compressed air systems can lead to serious problems such as corrosion, equipment damage, and product contamination, especially in environments with constant air demand. These issues not only reduce the efficiency and life span of machinery but can also result in costly downtime and compromised product quality.

A reliable solution to this problem is the use of Trident Pneumatics' TC Series non-cycling refrigerated air dryers. These dryers maintain a consistent dew point by continuously cooling the air, effectively removing moisture without the need for cycling mechanisms. Their steady performance and simple design help ensure maximum uptime, minimal maintenance, and consistent protection of downstream equipment.

Benefits

Standard Features

Come standard with a zero air loss drain, which removes condensate without wasting compressed air, helping to reduce energy costs. They also include a pressure dew point indicator for easy moisture control, a main on/off switch for simplified operation and maintenance, and an integrated water separator for highly efficient water-air separation. These standard features enhance efficiency, reliability, and user-friendliness.

Simple Installation

Designed with a plug-and-play setup, making installation quick and easy. With minimal configuration required, they can be up and running in no time, allowing you to get your system operational with less downtime and effort.

Small Footprint

Engineered with a small footprint, making them ideal for environments with limited space. Despite their compact size, they deliver exceptional performance and efficiency, fitting seamlessly into tight spaces without compromising on functionality. This space-saving design ensures you get reliable moisture control while optimizing your workspace.

Easy to Service

Panels are designed for easy removal, making servicing and maintenance quick and hassle-free. This feature allows for fast access to internal components, reducing downtime and simplifying upkeep.



TC Series Non-Cycling Refrigerated Dryers



Product Specifications

Ordering Part No.	Inlet & Outlet	Rated Flow ⁽¹⁾	Absorbed Power	Dimensions (Inches)			Weight	Power Supply (V/PH/60HZ)		Refrigerant	Recommended Pre Filter (not included)
	NPT	SCFM	kW	A	B	C		lbs	115/1		230/1
1280 8987 23	1/2"	15.0	0.16	9.2	22.0	22.1	41.9	•		R513A	8059 2402 32
1280 8987 24	1/2"	25.0	0.16	9.2	22.0	22.1	41.9	•		R513A	8059 2402 32
1280 8987 25	1/2"	35.0	0.16	9.2	22.0	22.1	41.9	•		R513A	8059 2402 32
1280 8987 26	1/2"	50.0	0.23	9.2	22.0	22.1	44.0	•		R513A	8059 2402 32
1280 8987 27	1/2"	65.0	0.33	9.2	22.0	22.1	55.1	•		R513A	8059 2402 32
1280 8987 28	3/4"	75.0	0.37	9.2	22.0	22.1	59.5	•		R513A	8059 2402 36
1280 8987 29	1"	100.0	0.59	9.2	22.0	22.1	66.1	•		R513A	8059 2402 36
1280 8987 30	1"	150.0	0.73	12.2	27.8	39.1	153.0	•		R513A	8059 2402 36
1280 8987 31	1 1/2"	200.0	0.80	12.2	27.8	39.1	159.0	•		R410A	8059 2402 39
1280 8987 32	1 1/2"	250.0	0.81	12.2	27.8	39.1	166.0	•		R410A	8059 2402 39
1280 8987 33	1 1/2"	275.0	0.96	12.2	27.8	39.1	161.0	•		R410A	8059 2402 39

Specifications	Standard
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Design operating pressure range	16 to 232 psig (1280 8987 23 to 1280 8987 30) 16 to 188 psig (1280 8987 31 to 1280 8987 33)
Minimum/maximum ambient temperature	40 to 104°F
Minimum/maximum inlet temperature	50 to 122°F

Pressure Correction Factors ⁽²⁾
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Inlet air pressure (psig)	75	85	100	115	130	145	160	175	190	200	215	230
Correction factor	0.90	0.96	1.00	1.03	1.06	1.08	1.10	1.12	1.13	1.15	1.16	1.17

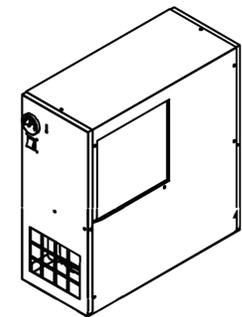
Temperature Correction Factors

Inlet air temperature (°F)	86	95	100	113	122
Correction factor	1.24	1.00	0.82	0.69	0.54

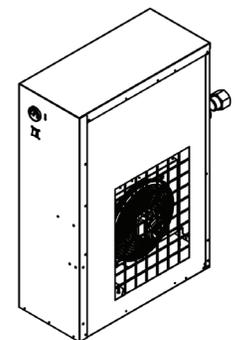
Dew Point Correction Factors

Ambient air temperature (°F)	77	86	95	100
Correction factor	1.00	0.92	0.84	0.80

- (1) Rated flow capacity @ 100 psig, 95°F inlet, and 77°F ambient.
- (2) Pressure correction factors must fall with design operating pressure range.
- (3) Technical specifications subject to change without notice. Direct inquiries to support@airandgassolutions.com or contact 704.897.2182.



1280 8987 23 to 1280 8987 29



1280 8987 30 to 1280 8987 33

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