KAESER COMPRESSORS

Built for a lifetime.™

Compressed Air Dryers

TX Series

Capacity

- 10 and 15 cfm @ 100 psig

Instrumentation and Controls

- Power cord with plug
- Power on light

All dryers are UL 508 listed, CSA certified, and use environmentally friendly R134a refrigerant

Water is extremely harmful to compressed air systems!

Hot compressed air contains a large amount of water. In fact, at 75°F and 75% relative humidity, a typical 25 hp compressor will generate 6 gallons of water every 8 hours.

As the saturated air moves downstream, water vapor cools and condenses into liquid. As a liquid, water promotes rust and corrosion in piping, tools, and product. Rust leads to air leaks and pressure drop. Maintenance and repair costs on pneumatic equipment increase, products can be ruined, and production time is lost.

Kaeser's TX Series refrigerated dryers efficiently remove the harmful moisture by cooling the air and forcing moisture to condense. Once condensed, the water is removed from the system by a separator and drain trap.

Efficient design

TX series dryers are built for maximum efficiency, durability, and reliability. Low pressure drops are achieved due to smooth tube copper heat exchangers.

Reliability

Only carefully selected, high quality components are built into each dryer. The result is exceptional reliability. Advanced engineering has reduced the number of joints and components of the dryer thus lowering the potential for leaks and malfunctions.

Value

High efficiency features, high reliability, and easy maintenance make the TX refrigerant dryer an exceptional value.

Technical Specifications

Model	Rated Capacity* (scfm)	Power Supply (V / Ph / Hz)	Inlet/Outlet Connections (in.)	Dimensions W x D x H (in.)	Weight (lbs.)
TX 2	10	115 / 1 / 60	3/8	13 x 13 x 15	42
TX 3	15				47

***Rated capacity:** Based on compressed air saturated at 100°F and 100 psig and operation in a 100°F ambient.

- Maximum inlet temperature: 120°F
- Maximum allowable working pressure: 250 psig
- Maximum/minimum ambient air temperature: 110/40°F

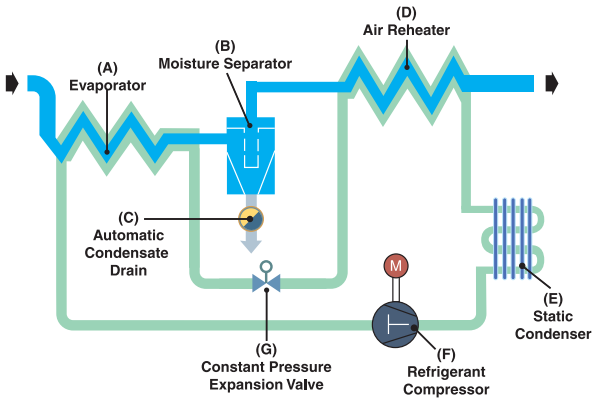
[1] 50 Hz also available [2] Connection is copper tube and must be brazed

Specifications are subject to change without notice.

Operation

Warm saturated air enters the Evaporator (A) where it is cooled by the evaporating refrigerant. As the compressed air cools, water vapor condenses and is separated from the air stream by the Moisture Separator (B). The Automatic Condensate Drain (C) ejects the separated liquid from the system. The cold, dry air is reheated by hot refrigerant in the Air Reheater (D), preventing "sweating" of downstream piping, and exits the dryer.

The Static Condenser (E) radiates heat from the hot refrigerant being discharged by the Refrigerant Compressor (F). The partially cooled refrigerant then passes through the Air Reheater (D) where it is cooled further. The Constant Pressure Expansion Valve (G) meters the flow of cool, liquid refrigerant into the Evaporator (A) to maintain proper cooling under all load conditions. This assures a constant evaporator temperature and prevents freeze-up, assuring continuous and automatic dew point control.



Selecting the Proper Dryer

To correct Rated Capacity for actual operating conditions, refer to "Capacity Correction Factors for Operating Conditions" and "Capacity Correction Factors for Ambient Temperature". Find the capacity correction factors corresponding to the inlet and ambient conditions. Multiply these factors to find the "overall" capacity correction factor, then multiply any dryer's rated capacity by the overall correction factor to determine its capacity at your operating conditions. Capacity correction factors for conditions not shown may be interpolated.

Capacity Correction Factors for Operating Conditions

Inlet Pressure (psig)	Inlet Temperature (°F)			
	90	100	110	120
80	1.17	0.95	0.79	0.66
100	1.23	1.00	0.82	0.70
125	1.31	1.07	0.91	0.74
150	1.37	1.13	0.95	0.80
175	1.42	1.18	0.99	0.84
200	1.47	1.22	1.03	0.89
250	1.49	1.24	1.05	0.91

Capacity Correction Factors for Ambient Temperature

	Ambient Air Temperature (°F)			
	80	90	100	110
Factor	1.12	1.06	1.00	0.94

KAESER COMPRESSORS

Built for a lifetime.™

www.kaeser.com

Kaeser Compressors, Inc.
511 Sigma Drive
Fredericksburg, VA 22408 USA
Telephone: 540-898-5500
Toll Free: 800-777-7873
info.usa@kaeser.com

Kaeser Compressors Canada Inc.
3760 La Verendrye Street
Boisbriand, QC J7H 1R5 CANADA
Telephone: (450) 971-1414
Toll free: (800) 477-1416
info.canada@kaeser.com

Kaeser Compresores de México S de RL de CV
Calle 2 #123
Parque Industrial Juríca
76100 Querétaro, Qro.
Telephone: 01 (442) 218 64 48
sales.mexico@kaeser.com

Kaeser Compresores de Guatemala y Cia. Ltda.
Calz. Atanasio Tzul 21-00, zona 12
El Cortijo II, Bodega 501
01012–Guatemala City
Telephone: +502 2412-6000
info.guatemala@kaeser.com