

## Compressed Air Dryers

**H Series Refrigerated Dryer****Why dry your air?**

Atmospheric air contains water vapor. At 75°F and 75% relative humidity, a typical 25 hp compressor ingests as much as 6 gallons of water every 8 hours. As a rule of thumb, every 20 degree increase in temperature doubles air's ability to hold moisture. As a result, hot compressed air holds a lot of moisture vapor. As the air moves through your system, the vapor cools and condenses into liquid, promoting rust and corrosion in piping. It also contaminates tools and product. Rust, corrosion and contamination in pipes, tools and product increase maintenance and production costs.

**Effective and Efficient**

For the vast majority of air system moisture problems, refrigerated dryers are the most effective solution. Kaeser's new H series refrigerated dryers efficiently remove liquids by cooling the air and condensing the water vapor. Water is then removed by our built-in separator and automatic drain trap.

**Reliable**

Our single plate stainless steel heat exchanger provides maintenance-free operation with low pressure drop. TBH and TCH models feature multistage stainless steel centrifugal separators

**Capacity**

- 12-125 cfm @ 100 psig

**Standard Features**

- On/Off switch
- Dew point indicator
- Built-in moisture separator
- Automatic condensate drain
- Environmentally friendly R134a refrigerant

**Optional Equipment**

- Bypass piping

*All dryers are UL 508 listed and CSA certified.*

with a wire mesh to remove 99.9% water. These and other features reflect Kaeser's commitment to building equipment that will provide years of trouble free operation in the industrial environment.

**Value**

H dryers are also extremely cost effective. They are easy to install, require little maintenance, and consume little electricity. The combination of excellent efficiency features, high reliability, and easy maintenance make the H series dryer an exceptional value.

## Specifications

Model	Flow Rate @ 100 psig (scfm)	Pressure Drop (psid)	Max. Working Pressure (psig)	Refrig. Comp. (hp)	Voltage	Air In/Out Conn. (NPTF)	Condensate Drain Conn. (NPTF)	Dimensions H x W x D (in.)	Weight (lbs.)
TAH 4	12	0.74	230	0.35	115/1/60 or 230/1/60	3/4	1/4	25 x 15 x 19	79
TAH 6	20	0.74		0.44					88
TBH 9	30	3.23		0.44	115/1/60			99	
TBH 13	40	3.23		0.57				104	
TCH 22	80	2.94		0.87	115/1/60 or 230/1/60	1		35 x 17 x 24	121
TCH 26	90	3.68		0.87					123
TCH 32	110	4.41		1.00					130
TCH 35	125	4.41		1.20					141

Table based on: 100°F air inlet, 100 psig, 100°F ambient temperature, and 38°F pdp

• Minimum ambient temperature: 38°F • Maximum ambient temperature: 113°F

• Maximum inlet temperature: 140°F

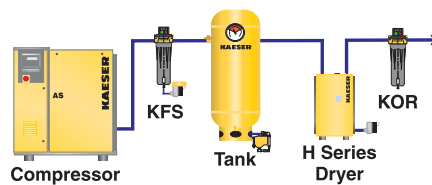
• Exact connection locations vary. Consult factory for dimensional drawing

*Specifications are subject to change without notice.*

## Sizing your dryer

Kaeser refrigerated dryers are rated for 100°F inlet air at 100 psig and 100°F ambient temperature. To select a dryer for your application, you must first correct your actual system conditions for these “rated” conditions. To do this, multiply your inlet air flow by each factor to get the *minimum required rated capacity* for your dryer.

## Typical dryer location



*For most efficient energy usage, place a filtered separator (KFS) and a receiver tank before the dryer to remove the bulk liquid condensate and solid particles. An oil removal filter (KOR) after the dryer removes oil aerosols. For heavy, intermittent air usage, a second receiver after the dryer may be required.*

## Correction Factors

Inlet Air Pressure		Inlet Air Temperature		Ambient Temperature	
psig	Factor	°F	Factor	°F	Factor
20	1.56	80	0.72	75	0.90
40	1.36	85	0.81	80	0.92
60	1.18	90	0.91	85	0.94
75	1.10	95	0.96	90	0.96
100	1.00	100	1.00	95	0.98
110	0.98	105	1.22	100	1.00
125	0.94	110	1.33	105	1.03
145	0.91	115	1.43	110	1.06
175	0.87	120	1.61	—	—
200	0.84	130	1.90	—	—
230	0.81	140	2.22	—	—

**All dryers use environmentally friendly R134a refrigerant**

# KAESER COMPRESSORS

**Built for a lifetime™**

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## The Air Systems Specialist

With over 85 years of experience, Kaeser is the air systems specialist. Our extensive 100,000 square foot facility allows us to provide unequalled product availability. With service centers nationwide and our 24-hour emergency parts guarantee, Kaeser customers can rely on the best after-sales support in the industry. Kaeser stands committed to providing the highest quality air system for your specific compressed air needs.