

Compressed Air Dryers

High Pressure Refrigerated Dryer



Kaeser's HT Series refrigerated dryers are specifically designed for high pressure applications, such as leak testing and PET bottling.

Accurate Temperature Control

An automatic, self-regulating hot gas by-pass valve maintains evaporator temperature and consistent dew point without freeze-up. Adjustments for load and ambient temperature changes are not necessary.

Built-in Features

Smooth surface, self-cleaning, stainless

steel plate heat exchangers resist fouling and maintain high heat transfer and low pressure drop for the life of the unit. Plus, they are fully insulated to preserve cooling effects.

HT Series dryers feature staged separation to effectively remove large moisture loads. Built-in automatic drains include an accurate and adjustable solid state timer, and a rugged solenoid valve that resists clogging and leaking.

Installation

HT's are delivered ready for installation; simply connect the piping and electric service. Compact cabinet design and

Continued on next page

Maximum Working Pressure

- Maximum pressure is 725 psig (CSA approved for 700 psig in Canada)

Instrumentation and Features

- On/Off switch
- Power On light
- Compressor On light
- Dew point temperature indicator
- Drain push-to-test button
- Condensate draining light
- Integral 3 micron KFS filtered separator
- CSA approved electrics

Optionals

- Dry (volt-free) alarm contacts for remote monitoring
- 575 V power available on models 1.0 through 10.0
- 50 Hz available on all models

All dryers are UL recognized and use only environmentally friendly R134a or R404a refrigerant

bottom clearance allow easy placement by forklift or pallet jack.

Capacity Correction Factors

To adjust dryer capacity for conditions other than rated, use Correction Factors (multipliers) from Tables 1 and 2. Example: What is the capacity of an HPET-3.5 when the compressed air at the inlet to the dryer is 500 psig and 110°F, and the ambient temperature is 90°F? Answer: 1000 scfm (rated flow from Specifications Table) x 0.83 (correction factor for inlet temperature and pressure from Table 1) x 1.06 (correction for ambient temperature from Table 2) = 880 scfm.

Table 1 - Correction Factors for Compressed Air Inlet Temp and Pressure

Inlet Pressure (psig)	Inlet Temperature				
	80°F	90°F	100°F	110°F	120°F
300 psig to MWP	1.49	1.19	1.0	0.83	0.72

Table 2 - Correction Factors for Ambient Temperature*

Ambient Temperature	80°F	90°F	100°F	110°F
Multiplier	1.12	1.06	1.00	0.94

* Air-cooled models only. For water-cooled use a 1.15 multiplier if cooling water is less than 95° (35°C).

Specifications are subject to change without notice.

Engineering Data

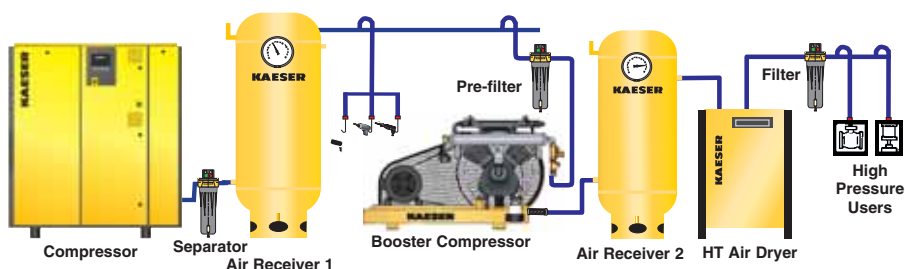
Model	Rated Flow* (scfm)	Pressure Drop* (psi)	Max Working Pressure (psig)	Refrigeration System (hp)	Voltage	Inlet/Outlet Conns (in.)	Dimensions (in.)			Weight (lbs.)
							H	W	D	
HT 0.5	130	1.7	725	0.5	115/1/60	1-1/2 MPT	37.6	25.6	19.6	251
HT 0.75	200	1.9		0.75						279
HT 1.0	300	2.4		1.0						425
HT 1.5	500	4.6		1.5	460/3/60	3 MPT	59	52	52	463
HT 2.5	750	4.5		2.5						691
HT 3.5	1000	3.7		3.5						734
HT 4	1250	3.1		4						889
HT 6	1750	6.2		6	939					
HT 7.5	2000	3.6		7.5	1204					
HT 10	3000	4.6		10	1329					

* Rated conditions are 100°F (38°C) inlet temperature, saturated with water vapor, 725 psig inlet pressure, 100°F (38°C) ambient temperature.

When ordering HT 1.0 and larger, specify air or water-cooled.

All units available 575 V and 50 Hz.

Typical High Pressure Air System



Note: All components must be properly pressure rated. Schematic does not show recommended accessories such as sequencers, drains, flow controller, or condensate management system.

**KAESER
COMPRESSORS**

Built for a lifetime.™

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Certified Management Systems



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.