

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, stainless steel plate type 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.

### 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 (HT 0.5 through HT 10 only)
- Dew point temperature indicator
- Drain push-to-test button
- Condensate draining light
- Integral 3 micron KFS filtered separator
- CSA approved electrics
- 304 stainless steel inlet and outlet air connections

### Options

- Dry (volt-free) alarm contacts for remote monitoring (Models HT 0.5 through HT 10)
- 575 V power available on models 1.0 through 10
- 50 Hz available on all models

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

### Installation

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

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bottom clearance allow easy placement by forklift or pallet jack.

### 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.

**Table 1 - Capacity Correction Factors for Operating Conditions**

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 - Capacity 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).

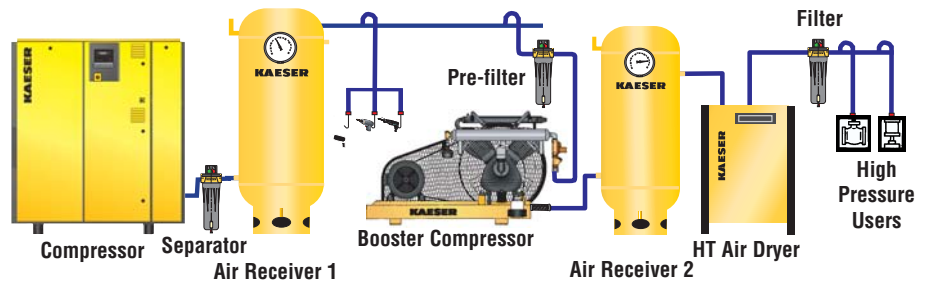
## Technical Specifications

Model	Rated Capacity* (scfm)	Power Supply (V / Ph / Hz)	Inlet/Outlet Connections (in.)	Dimensions W x D x H (in.)	Weight (lbs.)
HT 0.17	30	115 / 1 / 60 208-230 / 1 / 60	1/2 NPT(M)	18 x 21 x 26	109
HT 0.20	45				115
HT 0.25	65		118		
HT 0.33	95		121		
HT 0.5	130		25.6 x 19.6 x 37.6	1-1/2 NPT(M)	251
HT 0.75	200	279			
HT 1.0	300	425			
HT 1.5	500	463			
HT 2.5	750	208-230 / 3 / 60 460 / 3 / 60 575 / 3 / 60	32.2 x 41.6 x 58.1	691	
HT 3.5	1000			734	
HT 4	1250	3 NPT(M)	52 x 52 x 59	889	
HT 6	1750			939	
HT 7.5	2000			1204	
HT 10	3000			1329	

\*Rated capacity: Based on compressed air saturated at 100°F and 725 psig and operation in a 100°F ambient.

- Maximum inlet temperature: 130°F
- Maximum/minimum ambient air temperature: Air-cooled dryers: 110/40°F / Water-cooled dryers: 130/40°F
- Maximum allowable working pressure: 725 psig

### 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.

**Specifications are subject to change without notice.**



**Built for a lifetime.™**

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