

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
- 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
- 575 V power available on models 1 through 6
- 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 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 Temp. | 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 85°F (29°C) or lower.

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 0.5 | 130 | 115 / 1 / 60 | 1-1/2 NPT(M) | 25.6 x 19.6 x 37.6 | 251 |
| HT 0.75 | 200 | 208-230 / 1 / 60 | | 279 | |
| HT 1 | 300 | 208-230 / 3 / 60 | | 32.2 x 32.2 x 38.6 | 425 |
| HT 1.5 | 500 | | | 463 | |
| HT 2.5 | 750 | 460 / 3 / 60 | | 32.2 x 41.6 x 58.1 | 691 |
| HT 3.5 | 1000 | 575 / 3 / 60 | | | 734 |
| HT 6 | 1750 | | 3 NPT(M) | 52 x 52 x 59 | 939 |

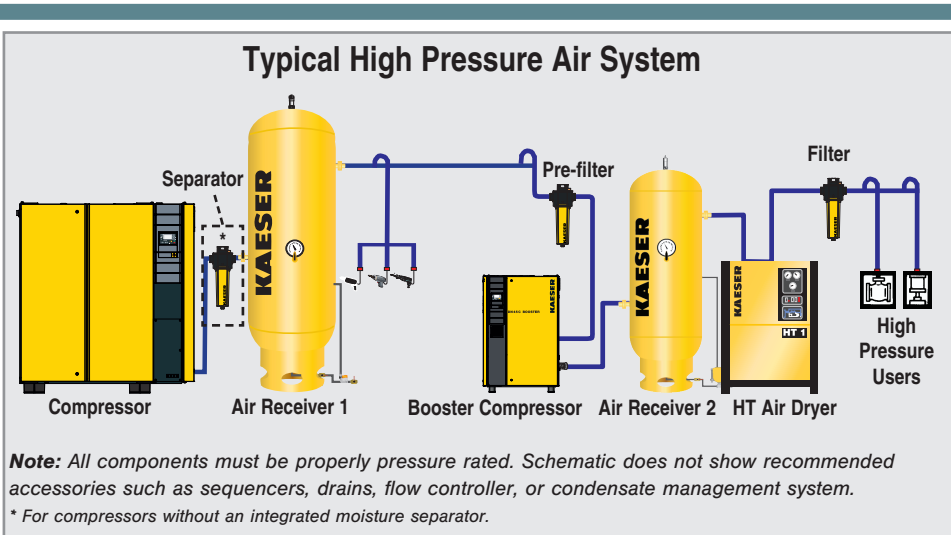
*Rated capacity is based on compressed air saturated at 100°F and 725 psig and operation in a 100°F ambient.

- Maximum inlet temperature: 120°F
- Maximum/minimum ambient air temperature: Air-cooled dryers: 110/40°F / Water-cooled dryers: 130/40°F
- Maximum allowable working pressure: 725 psig

HT 0.5 through HT 1.5 are only available as air-cooled.

HT 2.5 through HT 6 are available as air- and water-cooled.

Specifications are subject to change without notice.



Built for a lifetime.



Management System
ISO 9001:2015
ISO 14001:2015

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