



CHT High Inlet Temperature Refrigerated Dryer



Intelligent Air Technology



5 in 1

- Aftercooler
- 3 Micron Filter
- Condensate Separator
- Pre-cooler/Re-heater
- Evaporator



These components are already built into the dryer, offering an all in one, easy to install, UL listed package.

- A perfect solution to provide clean, dry air downstream of a reciprocating type air compressor.
- Environmentally friendly R134a refrigerant.
- Ideal for autobody shops, woodworking shops, machine shops and general industry.

Product Description

Operation:

CHT is a refrigeration dryer with incorporated air-cooled aftercooler, designed to operate with compressed air inlet temperatures of up to 200°F (93°C).

The compressed air enters the CHT and is first pre-cooled by the aftercooler. It then passes through a pre-filter, which removes both the condensate formed in the aftercooler and any dirt within the compressed air. From here it passes into an air-to-air heat exchanger, where it is cooled even further by the cold air exiting the dryer's evaporator. The now significantly cooled air passes into the evaporator section, where it is mechanically cooled down to the desired dewpoint. The condensate formed in this section is removed by a demister separator. The air then passes back through the air-to-air heat exchanger where it is heated by the incoming air. Finally, the air exits the dryer.

CHT Specifications

Model	Capacity Flow* (scfm)	Pressure Drop**	Input kW	Nominal Ref. (hp)	Inlet/Outlet Connection (NPT)	Dimensions (Inches)			Weight (lbs.)
						A	B	C	
CHT15	15	2.39	.25	1/8	3/8"	17.7	7.6	32.1	55
CHT25	25	2.05	.29	1/5	1/2"	23.6	11.1	39.0	93
CHT35	35	3.76	.44	1/4	1/2"	23.6	11.1	39.0	95
CHT50	50	3.27	.64	3/8	3/4"	27.6	13.9	47.7	134
CHT75	75	3.43	.85	1/2	3/4"	27.6	13.9	47.7	154
CHT100	100	4.81	1.09	5/8	3/4"	27.6	13.9	47.7	161

*Flow rating based on: inlet pressure: 125 psi g, Ambient temp.: 95°F, inlet temperature: 180°F.

**Pressure drop is cumulative for the aftercooler, filter, and dryer.

Standard Equipment

- Solid State Controller with Dewpoint Temperature Display
- Integrated Aftercooler
- Integrated 3 Micron Filter/Integrated Separator
- Dual Zero-Loss Float Drains
- Illuminated ON/OFF Switch
- R134a Refrigerant for Environmentally Friendly Applications

Dryer Operating Limits

- Maximum Working Pressure: 232 psi g (16 bar g)
- Maximum Air Inlet Temperature: 200°F (93°C)
- Min./Max. Ambient Temperature: 41/115°F (5/46°C)
- Protection Rating: IP 44

Correction Factors

Operating Pressure

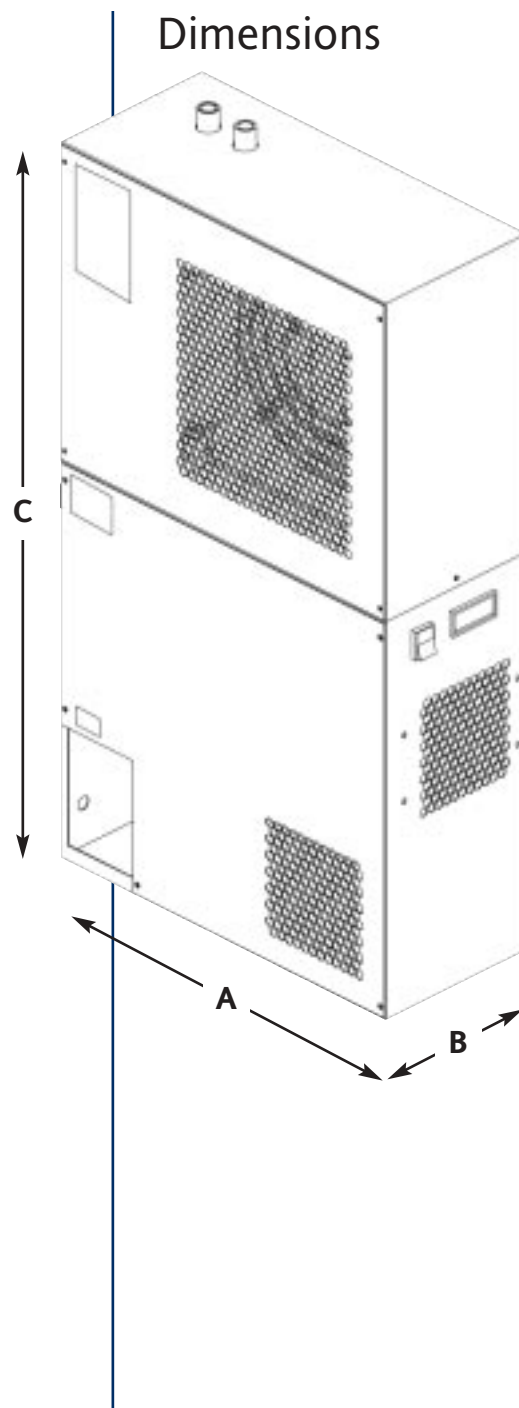
psi g	80	100	150	200	232
Factor	0.90	0.95	1.04	1.08	1.13

Ambient Temperature

°F	80	90	95	100	110
Factor	1.38	1.12	1.00	0.89	0.69

Inlet Temperature

°F	90	100	150	180	200
Factor	1.31	1.27	1.06	1.00	0.98



Intelligent Air Technology

Compressed air solutions for every application

Compressors

Up to 2,750 cfm

1 - 604 hp

Up to 6,000 psi

Lubricated

Rotary Vane

Single-Stage Screw

Two-Stage Screw

Speed Regulated Screw

Piston

Portable

Oil-Free

Two-Stage Screw

Water-Sealed Screw

Piston

Portable

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