

Gardner Denver

HIGH INLET TEMPERATURE REFRIGERATED AIR DRYERS

RHT Series



High Inlet Temperature Refrigerated Compressed Air Dryers

Space-Saving Design for Use with Reciprocating Compressors up to 30 HP



Gardner Denver specializes in delivering the best air quality for all working environments. Designed to work with reciprocating compressors, the RHT Series is ideally suited for auto body shops, auto service centers, and light industrial facilities with 5 to 30 horsepower compressors. A unique heat exchanger allows the dryer to accept high inlet temperatures, up to 180° F (82° C). This allows compressed air users to send high temperature air straight from their compressor directly to the RHT Series refrigerated dryer. Separate aftercooler and separator installations are no longer necessary. This provides important savings in installation space and installation time. The models match to most reciprocating compressor sizes and can also be easily sized if the compressor already has a tank-mounted air-cooled aftercooler.

RHT Series Features

- Stainless steel heat exchangers with high heat transfer coefficients allow inlet temperatures to 180° F (82° C). All models feature air-to-air and air-to-refrigerant heat exchangers.
- Adjustable timed electric drain—valve open and closed time—reliably discharges condensate from the dryer
- Widely spaced Inlet/Outlet connections, flow direction stamped into cabinet, for ease of installation and filter mount
- Instrumentation with lighted compressor On/Off switch, dew point temperature indicator and fault light
- Top mount fan, upward condenser air flow allows installation in tight spaces
- Bottom base rail with pre-drilled mounting holes for secure floor mount
- Quick release front panel for ease of access to dryer internals for routine maintenance



Reduce Overhead Costs

Removing water, solid particulates and oil from your compressed air system has many benefits which all lead to increased productivity and reduced overhead costs. One typical use for compressed air is for painting. Modern refinish materials and spray guns deliver superior paint finishes. Moisture and oil in the compressed air will result in paint rejects and lead to unnecessary purchases of extra unthinned color-coat paints, thinners and hardeners.

CALCULATE THE COST OF PAINT REJECTS

COST OF LABOR, MATERIALS & THROUGH-PUT DELAYS	PAINT REJECTS PER WEEK × NUMBER OF WEEKS	COST OF PAINT REJECTS
\$150 ×	1 × 52	= \$7,800
\$150 ×	2 × 52	= \$15,600
\$200 ×	1 × 52	= \$10,400
\$200 ×	2 × 52	= \$20,800

SPECIFICATIONS

MODEL	FLOW CAPACITY	POWER REQUIREMENTS		IN/OUT CONNECTIONS	REFRIGERANT COMPRESSOR CAPACITY	REFRIGERANT TYPE**	MAX WORKING PRESSURE		MAX INLET TEMPERATURE		AMBIENT TEMPERATURE RANGE***	
	SCFM*	V/PH/HZ	KW	NPT	BTU/HR		PSIG	BAR	°F	°C	°F	°C
RHT20	20	115/1/60	0.69	3/4"	4982	R-134a						
RHT25	25	115/1/60	0.69	3/4"	4982	R-134a						
RHT35	35	115/1/60	0.99	3/4"	9724	R-407c						
RHT50	50	115/1/60	0.83	1"	12420	R-407c	42-227	3.0-16.0	40-180	4-82	40-180	4-82
RHT75	75	115/1/60	1.13	1"	12420	R-407c						
RHT125	125	230/1/60	1.97	1"	19300	R-407c						

*Rating conditions are 180°F inlet temperature, 125 psig inlet pressure, 100% inlet relative humidity, 100°F ambient temperature.

**Refer to dryer data plate for refrigerant charge.

***To ensure optimal performance, do not operate continuously in conditions below or above max/min specifications.

DIMENSIONS

MODEL	H		W		D		WEIGHT	
	IN	MM	IN	MM	IN	MM	LBS	KG
RHT20	29	744	14	366	17	430	100	45
RHT25	29	744	4	366	17	430	100	45
RHT35	29	744	14	366	17	430	106	48
RHT50	41	1044	18	447	17	430	125	57
RHT75	41	1044	18	447	17	430	130	59
RHT125	46	1166	18	447	17	430	153	69

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with a focus on innovation and velocity

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