



domnick hunter

ZDHT

High Inlet Temperature Refrigeration Air Dryer

domnick hunter's ZDHT range of high inlet temperature dryers are supplied with a pre-cooler aftercooler, separator and drain already installed; making them ideally suited to placement after reciprocating air compressors which deliver high outlet air temperatures. The ZDHT dryer's all-in-one packages takes the piping out of compressed air resulting in lower installation costs. Eliminate that extra aftercooling packaging in existing applications, with one combined cooling and drying package you can start saving on maintenance costs now!



Benefits

- **R134a environmentally friendly refrigerant with no planned phase out**
- **Energy efficient, low running costs**
Air to air heat exchanger reduces overall size of refrigeration circuit by up to 60%. Zero loss float drain saves air. Saving Air - Saves Energy - Saves Money
- **No condensation on downstream piping** Air to air heat exchanger raises outlet air temperature eliminating condensation that can occur on chilled piping in humid conditions.
- **Eliminates need for separate aftercooler, pre-filter & moisture separator**
These components are already built into the dryer, offering an all-in-one, easy to install package.
- **Suited for placement after reciprocating type air compressor when clean dry air is required.**



LISTED
Refrigerated Compressed
Air Dryers
38DA

<p>ISO 9001:2000</p>  <p>Q 05240</p>  <p>003</p>	<p>BSI QUALITY ASSURANCE</p>  <p>International Standards Organisation</p> <p>ISO 14001</p>  <p>001</p>	<p>INTERNATIONAL APPROVALS</p>     <p>CRN</p> <p>AS1210</p>	    <p>COMPRESSED AIR CAGI INSTITUTE</p>
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Product Selection & Technical Data

Technical Data

Maximum ambient temperature	115°F (46°C)
Maximum inlet temperature	200°F (93°C)
Minimum ambient temperature	41°F (5°C)
Maximum pressure	232 psi g (16 bar g)
Electrical supply	115V/1Ph/60Hz
Refrigerant:	R134a

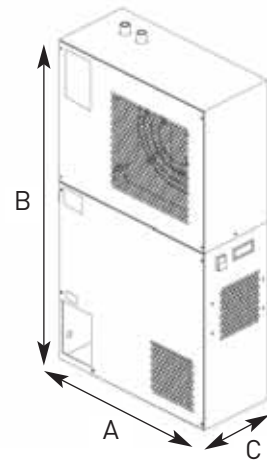
* Flow capacities are based on the following parameters.

Ambient temperature:	95°F (35°C)
Inlet temperature:	180°F (82°C) Relative humidity 60%
Inlet pressure:	125 psi g (8.5 bar g)

Model	Pipe Size	Nominal Flow* (scfm) 50°F (10°C)	Nominal Absorbed Power (kW) at 50°F
ZDHT 15	3/8" NPT-F	15	0.25
ZDHT 25	1/2" NPT-F	25	0.29
ZDHT 35	3/4" NPT-F	35	0.44
ZDHT 50	1" NPT-F	50	0.64
ZDHT 75	1 1/4" NPT-F	75	0.85
ZDHT 100	1 1/2" NPT-F	100	1.09

Weights and Dimensions

Model	Dimension ins (mm)			Weight lbs (Kg)
	A	B	C	
ZDHT 15	17.7 (450)	32.1 (815)	7.6 (197)	55 (25)
ZDHT 25	23.6 (600)	39.0 (990)	11.1 (282)	93 (42)
ZDHT 35	23.6 (600)	39.0 (990)	11.1 (282)	95 (43)
ZDHT 50	27.6 (700)	47.7 (1212)	13.9 (352)	134 (61)
ZDHT 75	27.6 (700)	47.7 (1212)	13.9 (352)	154 (70)
ZDHT 100	27.6 (700)	47.7 (1212)	13.9 (352)	161 (73)



Air Flow Correction Factors

Capacity correction factors to be used when operating conditions differ from those shown above. To obtain dryer capacity at new conditions multiply nominal capacity* x C1 x C2 x C3 x C4

Ambient Temperature (C1)

°F	60	70	80	90	95	100	110
°C	16	21	27	32	35	38	43
Correction Factor	1.93	1.67	1.38	1.12	1.00	0.89	0.69

Inlet Temperature (C2)

°F	90	100	150	180	200
°C	32	38	66	82	93
Correction Factor	1.31	1.27	1.06	1.00	0.98

Inlet Pressure (C3)

psi g	60	80	100	125	150	200	232
bar g	4	6	7	9	10	12	16
Correction Factor	0.83	0.90	0.95	1.00	1.04	1.08	1.13

Dewpoint (C4)

°F	50	60	70
°C	10	16	21
Correction Factor	1.00	1.22	1.47



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