



CHTR SERIES

HIGH TEMPERATURE REFRIGERATED COMPRESSED AIR DRYERS

CHTR SERIES CAN HANDLE THE HEAT

CHTR SERIES *Can Handle The Heat*

Since 1854, CURTIS Air Compressors has empowered generations with the air power needed to turn visions into reality. Today, FSCURTIS' CHTR Series high inlet temperature compressed air dryers feature a two phase cooling system designed to handle the heat from tank mounted reciprocating air compressors that lack aftercoolers. Enjoy clean dry compressed air in a value packed space-saving package from 15 through 100 scfm at pressures to 232 psig.

SIMPLE & EFFECTIVE

CHTR Series offers economy minded compressed air users a simple and effective no-nonsense approach to clean dry compressed air. Each package incorporates an oversized pre-cooler with filter/separator. The ability to function with inlet temperatures to 180°F makes it ideal for use with air compressors that lack an aftercooler.

FEATURE:

- Two phase cooling system
- Dedicated oversized pre-cooler
- Dual automatic condensate drains
- R134a refrigerant system
- Integrated 3 micron filtration
- Dew point indicator

BENEFIT:

- Ideal for compressors without aftercoolers
- Up to 60% savings in refrigeration energy
- Superior reliability and zero air loss
- Environmentally friendly refrigerant
- Captures dirt, rust and pipe scale
- Fast and easy check of performance



Another **cool idea** from FSCURTIS®

SPECIFICATIONS AND PERFORMANCE

Model	Pipe Size	SCFM		Nominal Absorbed Power (kW) at 50°F	Dimensions		Weight	
		Nominal Flow 50° F (10° C)			L x W x H		lbs	Kg
					inches	mm		
CHTR 15	3/8"	15		0.25	17.7 x 7.6 x 32.1	450 x 197 x 815	55	25
CHTR 25	1/2"	25		0.29	23.6 x 11.1 x 39.0	600 x 282 x 990	93	42
CHTR 35	1/2"	35		0.44			95	43
CHTR 50	3/4"	50		0.64	27.6 x 13.9 x 47.7	700 x 352 x 1212	134	61
CHTR 75	3/4"	75		0.85			154	70
CHTR 100	3/4"	100		1.09			161	73

Flow capacities are based upon:

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

C1			C2			C3			C4		
Ambient Temperature			Inlet Temperature			Inlet Pressure			Dewpoint		
F	C	Correction Factor	F	C	Correction Factor	psi g	bar g	Correction Factor	°F	°C	Correction Factor
60	16	1.93	90	32	1.31	60	4	0.83	50	10	1.00
70	21	1.67	100	38	1.27	80	6	0.90	60	16	1.22
80	27	1.38	150	66	1.06	100	7	0.95	70	21	0.47
90	32	1.12	180	82	1.00	125	9	1.00			
95	35	1.00	200	93	0.98	150	10	1.04			
100	38	0.89				200	12	1.08			
110	43	0.69				2.32	16	1.13			

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** * C1 x C2 x C3 x C4

- Maximum ambient temp. – 115°F (46°C)
- Minimum ambient temp. – 41°F (5°C)
- Electrical Supply – 115V/1Ph/60Hz
- Maximum inlet temp. – 200°F (93°C)
- Maximum pressure – 232 psi g (16 bar g)
- Refrigerant – R134a

Distributed By:



CURTIS-TOLEDO®, INC.
 1905 Kienlen Avenue | St. Louis, Missouri 63133
 314.383.1300 or 800.925.5431
 www.curtistoledo.com | info@curtistoledo.com



CURTIS – Quality & Excellence Since 1854

Improvements and research are continuous at FSCURTIS. Specifications may change without notice.

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