

## REFRIGERATED AIR DRYERS 20 - 350 SCFM



**CRN APPROVED** 

**ULTIMATE ENERGY SAVING TECHNOLOGY** 

## THE SOLUTION TO A PROBLEM

Compressed air is an effective and reliable source of power which is used in many operations and processes in industry. However, compressed air does have some inherent problems, which if not treated properly, can create significant problems.

#### Problem 1

During the compression process, air becomes contaminated with water, dirt, metal particles and oil. These contaminants combine to form an abrasive and clogging agent in your compressed air line. Use of contaminated compressed air can result in prematurely worn pneumatic machinery; blocked valves and orifices; spoiled spray paint application; and corroded piping systems.

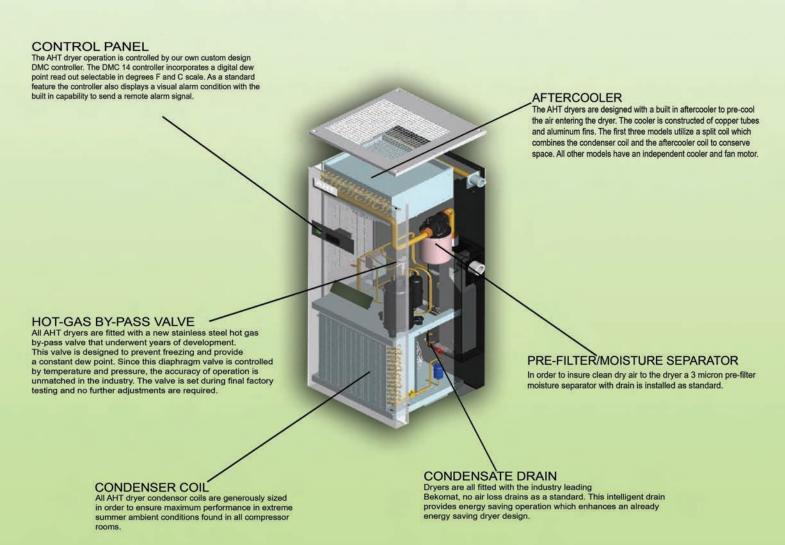
#### Problem 2

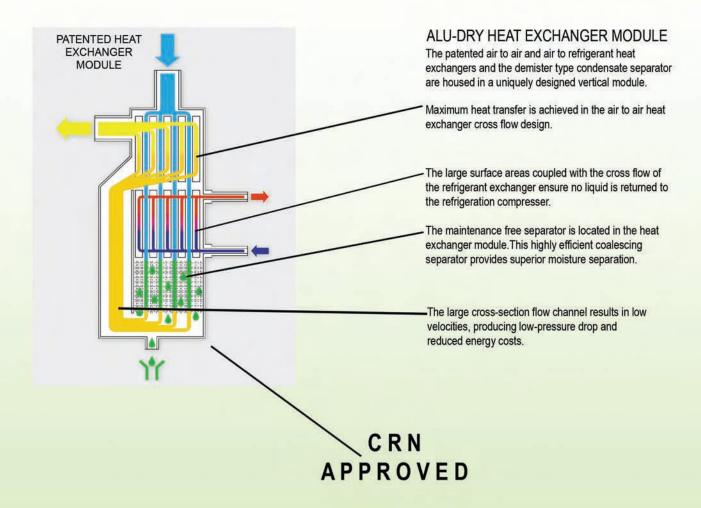
Traditionally, the solution to contaminated compressed air problems has been the use of various compressed air treatment products, installed downstream of the air compressor. These may include an aftercooler with moisture separator to remove bulk liquid; coalescing filters to trap oil and dirt; and a refrigeration dryer to condense any remaining saturated water. The problem in many cases is that there is insufficient space in the compressor room to properly fit the various compressed air treatment components. In addition, numerous inter-connecting pipe connections are required, increasing the risk of leaks.

#### The Solution

The solution to both these problems is an all-in-one compressed air purifying package designed and manufactured by a company with extensive knowledge and experience. The AHT series dryers are reliable, high efficiency compressed air purifying units that provide cool, clean and dry compressed air in one simple-to-install package. One inlet and outlet air connection and one electrical power hook-up are all that's required. The system provides a pressure dewpoint of +3C to +7C (+37F TO +45F) at 100 psig working pressure. Since most production processes operate at temperatures well above these levels, your compressed air will be clean and dry at all times.

### AHT HIGH TEMPERATURE DRYERS





# FEATURES AND BENEFITS

- Built-in independent air-cooled aftercooler on AHT 75 and up
- R134a/R404a enviroment friendly refrigerant
- Conforms to CSA standards/Entela approved
- Fully hermetically sealed refrigerant compressor includes thermal overload protection and anti-vibration mountings
- Robust heavy gauge steel construction with overspecified fastening devices
- Independent thermally protected cooling fans for the aftercooler and the condenser
- High efficiency moisture separator for evaporator
- CRN approved

- High efficiency spin on pre-filter/moisture separator for the aftercooler is included and fitted as standard
- Easily removable access panels
- Bekomat drain on evaporator and moisture separator
- Powder paint coated finish
- Electronic controls complete with LED readout is standard on all models
- Compact space-saving design
- Suitable for high inlet air temperature or high ambient air temperature
- Neat and easily serviceable layout of components

# AHT HIGH TEMPERATURE DRYER TECHNICAL DATA

	FLOW RATE SCFM	POWER SUPPLY	REFRIG.	PIPE SIZE	WEIGHT (lbs)	DIMENSIONS IN INCHES		
MODEL						Α	В	С
AHT 20U	20	115/1/60	R134a	1/2" NPT	82	16.75	16.33	25.39
AHT 30U	30	115/1/60	R134a	1/2" NPT	88	16.75	16.33	25.39
AHT 40U	40	115/1/60	R134a	1/2" NPT	90	16.75	16.33	25.39
AHT 50U	50	115/1/60	R134a	1/2" NPT	93	16.75	16.33	25.39
AHT 75U	75	115/1/60	R134a	1" NPT	112	16.00	18.30	44.50
AHT 100U	100	230/1/60	R134a	1 1/4" NPT	134	20.10	20.25	51.96
AHT 150U	150	230/1/60	R404a	1 1/4" NPT	146	20.10	20.25	51.96
AHT 200U	200	230/1/60	R404a	1 1/2" NPT	165	22.00	23.34	55.11
AHT 250U	250	230/1/60	R404a	1 1/2" NPT	185	22.00	23.34	55.11
AHT 300U	300	2301/60	R404a	2" NPT	291	27.87	30.51	59.17
AHT 350U	350	230/1/60	R404a	2" NPT	304	27.87	30.51	59.17



Compressed air treated with AHT dryer series guarantees high quality standards, conforming to ISO 8573.1, class 5 for residual humidity and class 3 for maximum concentration of solid contaminants.

CORR	ECTION FA	CIORFC	R OPERA	ING CHA	NGES			
Inlet air pressure	barg	4	5	7	8	10	12	14
Factor		0.77	0.85	1.00	1.06	1.15	1.21	1.25
CORREC	TION FACTO	OR FOR A	AMBIENT T	EMPERAT	TURE CHA	ANGES		
Ambient temperature	°C	25	30		32	35	40	46
Factor		1.10	1.03	1.	.00	0.95	0.88	0.83
CORREC	TION FACTO	OR FOR I	NLET AIR T	TEMPERA	TURE CH	ANGES		
Inlet air temperature	°C	60		70	80		90	100
Factor		1.22		1.12	1.00		0.86	0.80

Performance is based on free air delivered by the compressor (at 100 F at 14.7 psig) and at the following operating conditions:

Inlet air temperature:	82C ( 180F )	Pressure dew point:3 T	O 7C (37.4 to 45F)
Ambient temperature:	45C ( 113F )	Maximum working pressure:	12 bar ( 174 psig )
Working pressure	7 bar ( 100 psig )	Maximum inlet air temperature:	100C ( 212F )
		Maximum ambient	46C ( 115F )

### HIGHER TEMPERATURE DRYERS AVAILABLE UPON REQUEST.

