



Features and Benefits

- Air-cooled Aftercoolers.
- 3 Micron Filter — Separator with drain.
- ACT (Aluminum Cooling Technology) — Air to air, air to refrigerant, separator module with efficient heat transfer, reduced energy consumption and low pressure drop.
- Constant Pressure Hot Gas By-pass Valve — Precise pressure dew point control over full operating range.
- Fan Pressure Switch on ALL models — Dryer can operate in ambients as low as 35°F.
- Dual Easy To Service Programmable Electronic Timer Drains — First for the After-cooler — Second for the Refrigerated Dryer Separator.

The AHT Series

AHT High Inlet Temperature
Refrigerated Dryers
20-350 SCFM

BY **FRIULAIR**
Dryers



AHT High Inlet Temperature Refrigerated Dryers

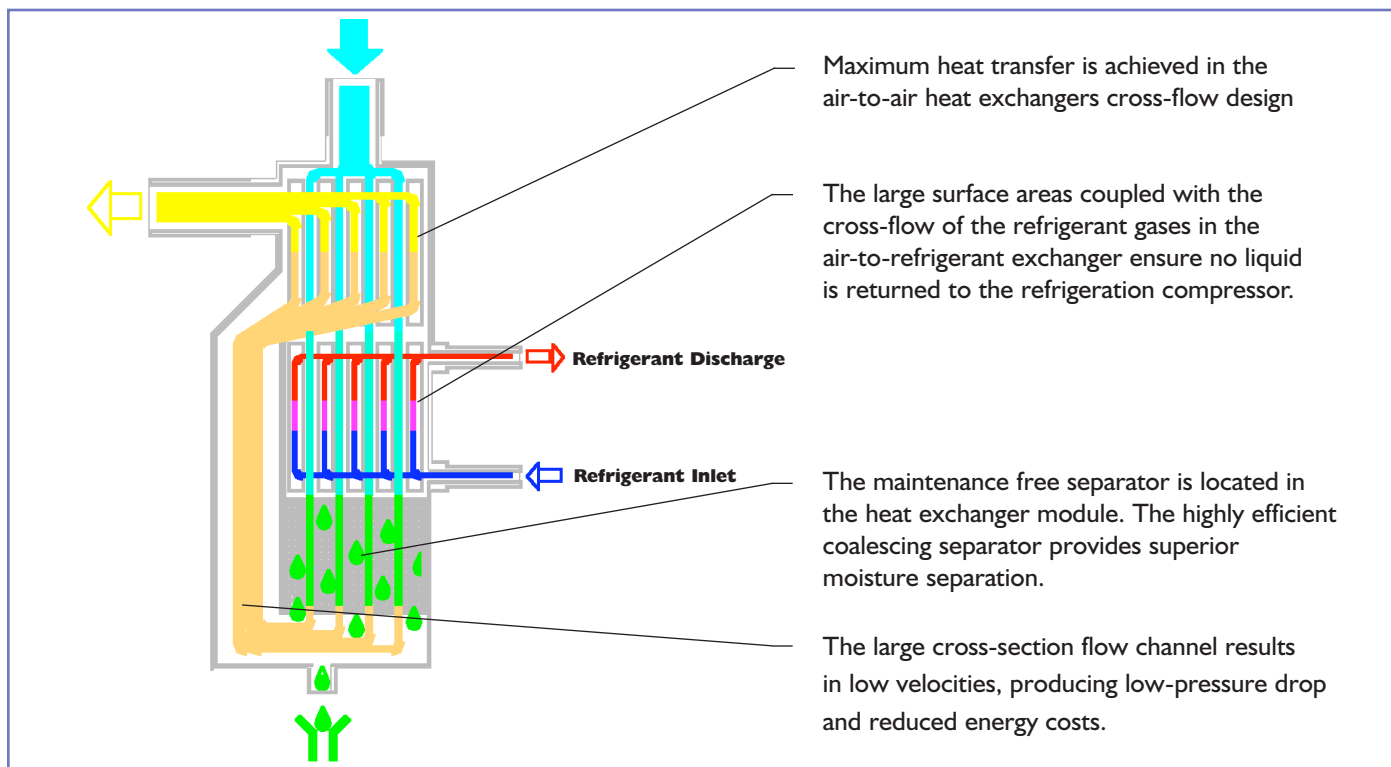
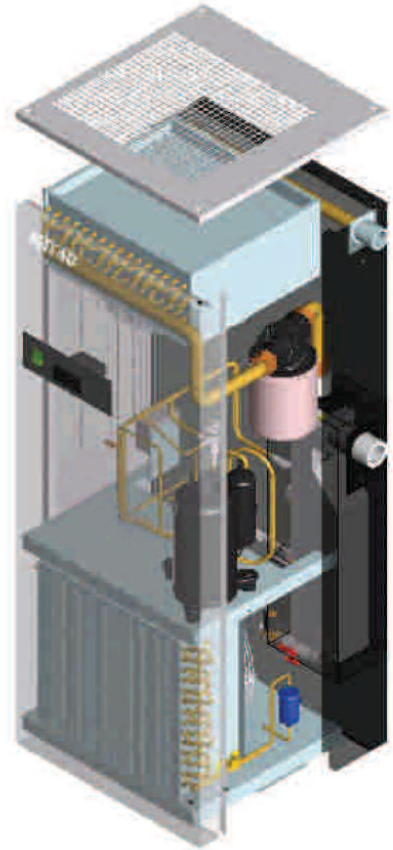
Clean, dry compressed air is as vitally important to a small manufacturing company as it is to the largest of production facilities. For these smaller critical applications, **BelAir** has a dedicated line of high inlet air temperature refrigerated drying systems (up to 210°F). These units eliminate the need for a separate aftercooler, moisture separator, and particulate filter. Ideal for body shops, paint booths or wherever a high inlet air temperature dryer is required.

STANDARD EQUIPMENT

- Solid State Controller
- Integrated Aftercooler
- Integrated 3-micron Filter/Separator
- Dual Timed Electric Drains with Isolation Valve and Strainer
- Illuminated ON/OFF Switch
- Drain Set and Push to Test Buttons
- Hot Gas By-pass and Capillary Tube Controls
- R134a Refrigerant (R404A in 150 scfm and above) for environmentally friendly applications.

ACT MODULE

The unique design of the aluminum cooling technology heat exchanger combines the air-to-air, air-to-refrigerant and the demister condensate separator.



DMC14 DIGITAL CONTROLLER

Dryer operation and monitoring is controlled via an electronic controller. The **DMC14** controller comes standard on all AHT dryers. The digital display shows the operation Dew Point Temperature in °F and provides operational controls for the condensate drain along with a High Dew Point programmable remote alarm signal function.



INLET AIR TREATMENT

All AHT models are equipped with a 3 micron **BelAir FT Series** Filter. The filter prevents fouling from rust, scale or other solid particulates pollutants, resulting in prolonged life of the AHT Heat Exchanger module. The filter also separates and drains the water condensed by the AHT air-cooled aftercooler.



“HOT GAS” BY-PASS VALVE

An innovative design, new to the industry utilizes a thermostatic bulb to control suction pressure. This ensures dryer performance regardless of load conditions and eliminates freeze-up at low loads. Calibrated at the factory, the valve never needs adjustment in the field, resulting in simpler maintenance.



CONDENSATE DRAIN

All models are fitted with 2 timed drains installed on the FT Filter and on the AHT Condensate Separator combined in the heat exchanger. Interval and duration times are adjustable from the DMC14 Controller. Unique maintenance friendly drains require no tools for servicing. Zero Loss Drains are available.



CORRECTION FACTOR TABLE

Operating Pressure

PSIG	60	75	100	115	125	150	175	200
FACTOR	0.77	0.85	1.00	1.06	1.10	1.15	1.21	1.25

Ambient Temperature

°F	80°	90°	100°	105°	110°	115°	120°
FACTOR	1.08	1.06	1.00	0.96	0.90	0.80	0.65

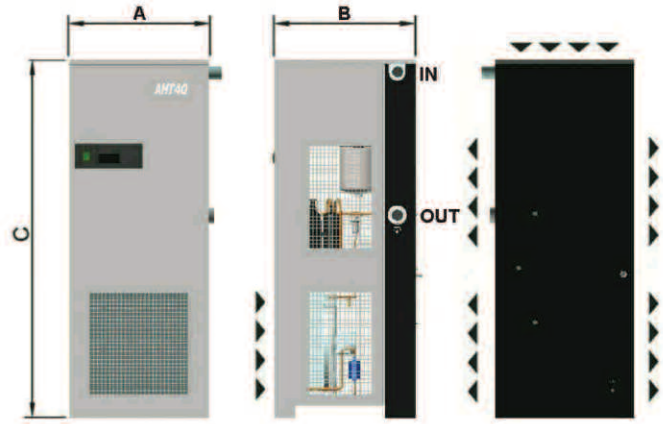
Inlet Air Temperature

°F	140°	160°	180°	200°	210°
FACTOR	1.22	1.12	1.00	0.85	0.78

SPECIFICATIONS AND DIMENSIONS

Capacity of the dryer is rated according to CAGI Std No. ADF100 "Refrigerated Compressed Air Dryers-Method for testing and rating, "Pressure dew point@100 psig inlet air pressure, 100°F inlet air temperature, 100°F ambient air temperature with a 5 psig maximum pressure drop.

Maximum working pressure 200 psi. Maximum inlet air temperature up to 210°F. Maximum ambient temperature 120°F. Consult factory for higher temperature applications.

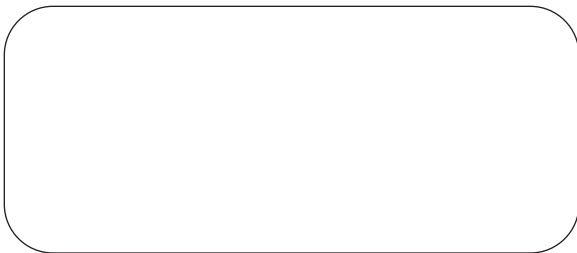


**Dimensions include connection fitting.
Dimensions are rounded to the nearest inch.**

() Specify Voltage , 1= 115/1/60, 2=230/1/60

Model	Flow (SCFM)	Connection	Filter Element Replacement	Weight (lbs)	Standard Controller	Dimensions (LxWxH) in.	Voltage	Refrigerant
AHT20-()	20	1/2" NPT-F	TP30	81	DMC14	17x17x30	115/1/60 or 230/1/60	R134a
AHT30-()	30	1/2" NPT-F	TP30	88	DMC14	17x17x30	115/1/60 or 230/1/60	R134a
AHT40-()	40	1/2" NPT-F	TP45	90	DMC14	17x17x30	115/1/60 or 230/1/60	R134a
AHT50-()	50	1/2" NPT-F	TP45	92	DMC14	17x17x30	115/1/60 or 230/1/60	R134a
AHT75-()	75	1" NPT-F	TP125	106	DMC14	16x19x46	115/1/60 or 230/1/60	R134a
AHT100-()	100	1 1/4" NPT-F	TP125	134	DMC14	20x20x52	115/1/60 or 230/1/60	R134a
AHT150-()	150	1 1/4" NPT-F	TP200	145	DMC14	20x20x52	115/1/60 or 230/1/60	R404A
AHT200-2	200	1 1/2" NPT-F	TP200	165	DMC14	22x24x60	230/1/60	R404A
AHT250-2	250	1 1/2" NPT-F	TP300	185	DMC14	22x24x60	230/1/60	R404A
AHT300-2	300	2" NPT-F	TP300	290	DMC14	28x31x61	230/1/60	R404A
AHT350-2	350	2" NPT-F	TP450	304	DMC14	28x31x61	230/1/60	R404A

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