Purestream HT Dryers

BY FRIULAIR

DRYER, AFTERCOOLER, PRE-FILTER/MOISTURE SEPARATOR & ELECTRIC DRAIN IN ONE

PURESTREAM HT SERIES

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, will create more trouble than it's worth.

Problem 1

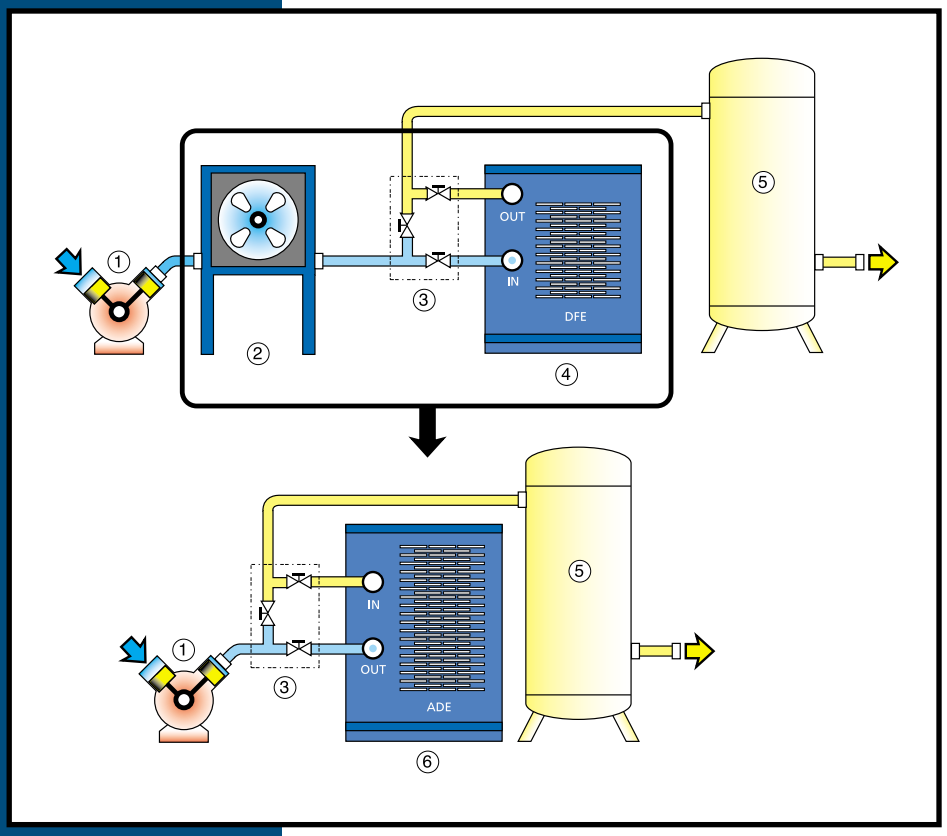
During the compression process, air becomes contaminated with water, dirt, wear particles and oil. These contaminants combine to form an abrasive and clogging agent in your compressed air line. Use of contaminated compressed air can result in prematurely worn pneumatic machinery; blocked valves and orifices;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

Problem 2

Traditionally, a 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 Purestream HT Series by FRIULAIR 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 +3°C to +5°C (+37°F to +41°F) 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.



Note: *A pre-filter/moisture separator to clean the compressed air is included on all models.*

1 Air compressor

2 Friulair aftercooler

3 By-pass

4 Friulair Purestream Series DFE

5 Receiver

6 Friulair Purestream HT Series ADE

ADE 43

1 Air dryer

2 Outlet air

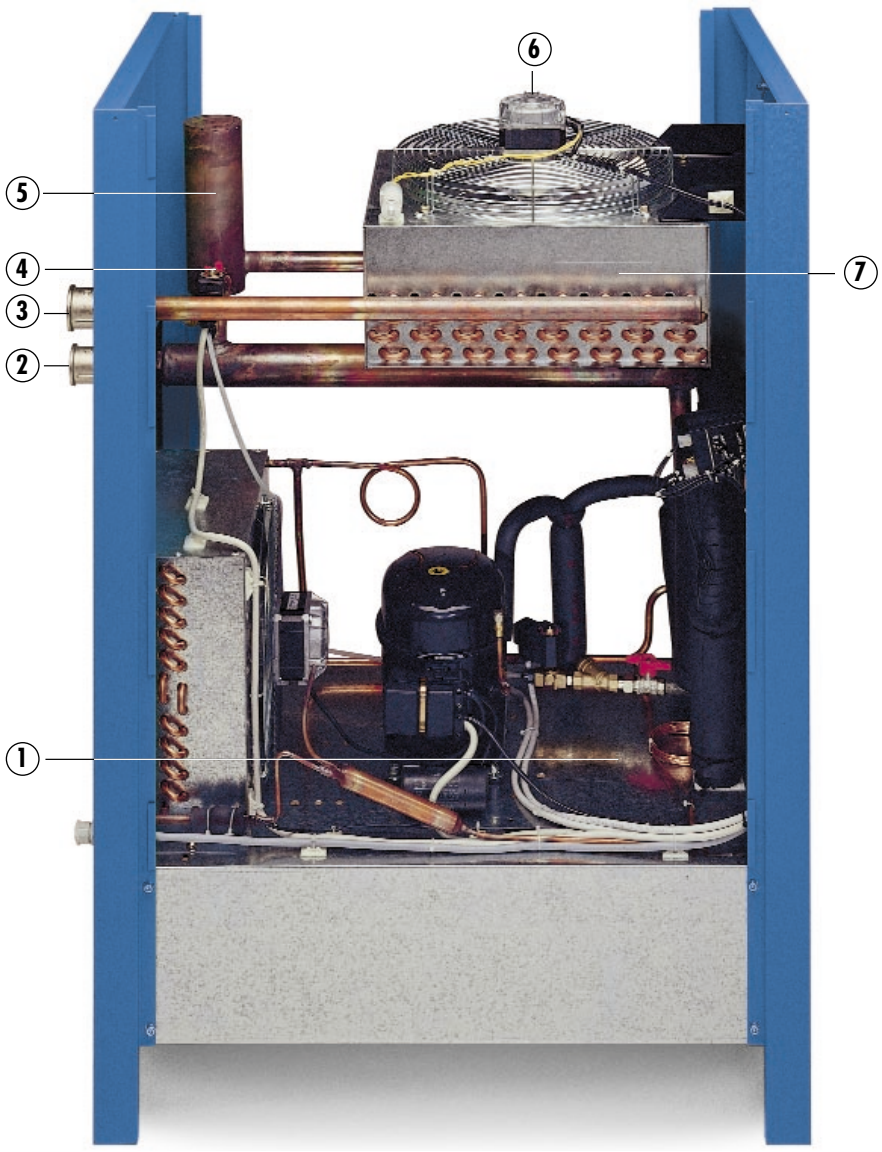
3 Inlet air

4 Solenoid valve for condensate drain

5 Pre-filter/moisture separator

6 Fan motor

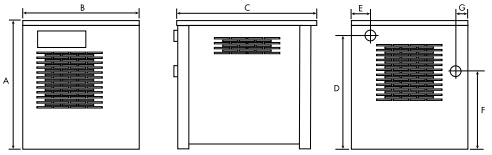
7 Air-cooled aftercooler



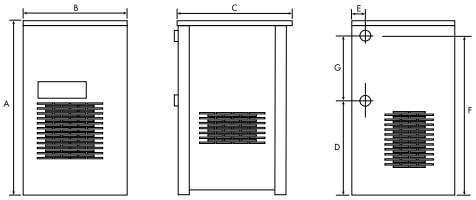
- Built-in independent air-cooled aftercooler
- R134a environment friendly refrigerant
- Conforms to CSA standards
- Fully hermetically sealed refrigerant compressor includes thermal overload protection and anti-vibration mountings
- Robust heavy gauge steel construction with overspecified fastening devices
- Independent thermally protected cooling fans for the aftercooler and the condenser
- High efficiency moisture separator for evaporator
- High efficiency spin on pre-filter/moisture separator for the aftercooler is included and fitted as standard
- Easily removable access panels
- Neat and easily serviceable layout of components
- Automatic electric drains
- 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

DATA SHEET PURESTREAM HT SERIES (R 134a)

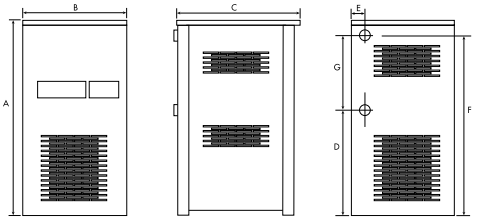
ENVIRONMENTALLY FRIENDLY



MODEL	AIR FLOW	POWER CONS. AMPS	VOLTAGE	CONNECTION	PRESSURE	FREON	DIMENSIONS (INCHES)							WEIGHT
	CFM	NOM / MAX			MAX PSIG		A	B	C	D	E	F	G	lbs
ADE 5	20	3.6 4.3	115/1/60	3/4" NPT	174	R134a	19.9	17.7	21.3	17.9	2.2	11	1.3	88



MODEL	AIR FLOW	POWER CONS. AMPS	VOLTAGE	CONNECTION	PRESSURE	FREON	DIMENSIONS (INCHES)							WEIGHT
	CFM	NOM / MAX			MAX PSIG		A	B	C	D	E	F	G	lbs
ADE 8	30	4.6 5.9	115/1/60	3/4" NPT	174	R134a	31.5	17.7	23.2	17.7	2.4	29.9	12.2	100
ADE 11	39	5.6 7.2	115/1/60	3/4" NPT	174	R134a	31.5	17.7	23.2	17.7	2.4	29.9	12.2	105
ADE 18	64	7.2 9.1	115/1/60	3/4" NPT	174	R134a	31.5	17.7	23.2	17.7	2.4	29.9	12.2	110
ADE 23	81	7.6 9.8	115/1/60	1" NPT	174	R134a	31.5	17.7	23.2	17.7	2.4	29.9	12.2	115



MODEL	AIR FLOW	POWER CONS. AMPS	VOLTAGE	CONNECTION	PRESSURE	FREON	DIMENSIONS (INCHES)							WEIGHT
	CFM	NOM / MAX			MAX PSIG		A	B	C	D	E	F	G	lbs
ADE 31	109	5.5 6.8	230/1/60	1" NPT	174	R134a	40	21.3	26.4	21.7	3	38.2	16.5	152
ADE 43	152	6.2 7.8	230/1/60	1 1/4" NPT	174	R134a	45.7	23	32.3	28	3	43.7	15.7	198
ADE 52	184	7.8 9.8	230/1/60	1 1/2" NPT	174	R134a	45.7	23	32.3	28	3	43.7	15.7	258
ADE 61	215	9.1 11.7	230/1/60	2" NPT	174	R134a	45.7	23	32.3	28	3	43.7	15.7	280
ADE 75	265	8.5 12.1	230/1/60	2" NPT	174	R134a	45.7	23	32.3	28	3	43.7	15.7	285

Performance is based on free air delivered by the compressor (at intake 86°F at 14.7 psig) and at the following operating conditions:

Inlet air temperature: . . . . . .82° C (180°F)
Ambient temperature: . . . . . .45° C (113°F)
Working pressure: . . . . . .7 bar (100 psig)
Pressure dew point: . . . . . .3 to 5° C (37.4 to 41°F)
Maximum working pressure: . . . . . .12 bar (174 psig)
Maximum inlet air temperature: . . . . . .93° C (200°F)

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