



ACT DRYER SERIES

REFRIGERATED COMPRESSED AIR DRYERS

Rated For Australian Conditions



Environmentally
FRIENDLY



THE EXPERTISE YOU WANT, THE SUPPORT YOU NEED, THE VALUE YOU DEMAND

Pre and post sales technical and spare parts support just a phone call away,
that's the Pilot Air Value Guarantee*.

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PILOT AIR'S ACT RANGE OF REFRIGERATED AIR DRYERS IS RATED FOR AUSTRALIAN CONDITIONS WITH FLOW RATES BASED ON AN AMBIENT TEMPERATURE OF 35°C.

FEATURES

- **ELECTRONIC CONTROL PANEL**

Operation of the dryer is monitored by a digital thermometer in the control panel.

- **HOT GAS BY-PASS VALVE**

This innovative new design, incorporating greater precision and accuracy, prevents the formation of ice inside the evaporator under any load condition. The valve is set during final testing and no further adjustments are needed.

- **CONDENSATE DRAIN**

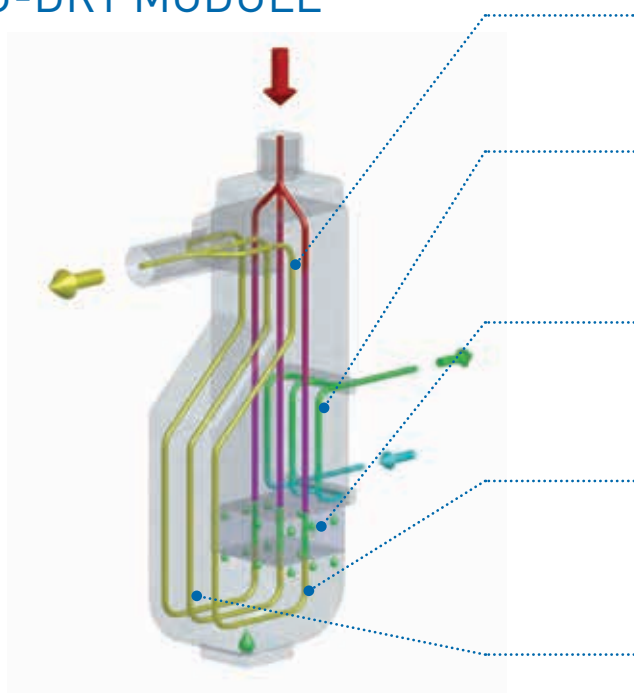
All models are fitted with a timed electronic drain. Discharge and pause times are adjustable.

- **CONDENSER**

Generous sizing of the condenser ensures maximum performance of the refrigerant circuit and the ability to operate with changes in the ambient conditions. Easy access to the condenser for cleaning and maintenance.



ALU-DRY MODULE



The counter flows of compressed air in the air to air heat exchanger ensure maximum heat transfer.

Generous dimensions of the air to refrigerant heat exchanger plus the counter flow gas streams allow full and complete evaporation of the refrigerant (preventing liquid returning to the compressor).

The high efficiency condensate separator is located within the heat exchange module.

The large capacity separator is designed to operate even with high humidity levels in compressed inlet air.

The large cross section of flow channels within the heat exchanger module aids flow rates and leads to reduced power requirements.

Benefits of using Aluminium Cooling Technology refrigerated air dryers:

- ✓ **REDUCE DOWN TIME** - The presence of moisture and other contaminants in compressed air can cause pneumatic valves and instruments to stick and malfunction. As a result, many manufacturers of this equipment insist on clean dry air as a condition of warranty.
- ✓ **LOWER EQUIPMENT MAINTENANCE COSTS** - Moisture can wash away lubricants used in pneumatic tools, decreasing their life span.
- ✓ **IMPROVE PRODUCT FINISH** - Poor painting or blasting due to moisture or particulates in the compressed air can result in an inferior job, resulting in extra costs to correct the problem.
- ✓ **REDUCED ENERGY CONSUMPTION** - Running costs are reduced thanks to the efficient ALU-DRY heat exchanger, high efficiency compressors, innovative hot gas by-pass valves and low pressure drop (even with load variances).

INCLUSIONS

	ACT 5-23	ACT 30-40	ACT 55-60	ACT 80-160	ACT 180-300
Alu-Dry Heat Exchanger	✓	✓	✓	✓	✓
High Efficiency Compressor	✓	✓	✓	✓	✓
High Efficiency Fans	✓	✓	✓	✓	✓
Environmental Refrigerant	✓	✓	✓	✓	✓
Automatic Hot Gas By-Pass	✓	✓	✓	✓	✓
DMC 14 Controller	✓	✓	✓	✓	
DMC 24 Controller					✓

ENVIRONMENTALLY FRIENDLY

All CFCs have been eliminated from the ACT dryer series by only using very efficient and environmentally friendly refrigerant gases such as R134a, R407C and R410A in line with the Montreal Protocol. All packaging materials are fully recyclable.



Environmentally FRIENDLY

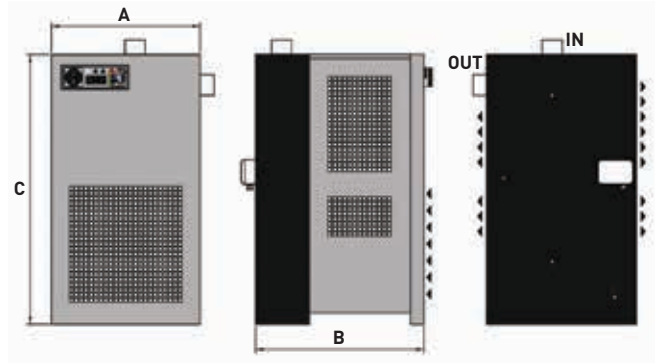


It is mandatory to install a dryer prefilter with a grade of at least 3 microns before the dryer to prevent rust, scale or other pollutants clogging the Alu-Dry module and the condensate drain. Failure to do so will void warranty on the dryer.

TECHNICAL FEATURES

Data refers to the following condition: Ambient temperature of 35°C, with inlet air at 7 bar and 42°C and 3°C pressure dewpoint (-22°C atmospheric pressure dewpoint).

Maximum working conditions: Ambient temperature 45°C, inlet air temperature 55°C and inlet air pressure 14 bar.



Model	Flow Rate		Pressure Drop Bar	Power Supply Voltage	Port Sizes In/Out	Refrigerant Gas Type	Dimensions mm			Weight kg
	L/S	CFM					A	B	C	
ACT 5 T	9.2	19.5	0.03	240	1/2" BSP F	R134a	345	420	740	29
ACT 8 T	14.1	30	0.08	240	1/2" BSP F	R134a	345	420	740	31
ACT 12 T	20	42	0.11	240	1/2" BSP F	R134a	345	420	740	34
ACT 18 T	30	64	0.13	240	1" BSP F	R134a	485	455	785	39
ACT 23 T	38.2	81	0.17	240	1" BSP F	R134a	485	455	785	41
ACT 40 T	66.7	141	0.20	240	1 1/4" BSP F	R407C	485	455	785	50
ACT 60 T	103	219	0.18	240	1 1/2" BSP F	R407C	555	580	885	63
ACT 100 T	175	371	0.13	240	2" BSP F	R407C	555	625	975	94
ACT 140 T	242	512	0.13	240	2 1/2" BSP F	R407C	665	725	1105	150
ACT 180 T	300	636	0.17	415	DN 80-PN 16	R407C	790	1000	1465	240
ACT 210 T	350	742	0.19	415	DN 80-PN 16	R407C	790	1000	1465	242
ACT 250 T	417	883	0.13	415	DN 80-PN 16	R407C	790	1000	1465	275
ACT 300 T	500	1060	0.18	415	DN 80-PN 16	R407C	790	1000	1465	276

Correction Factor For Operating Pressure Changes							
Inlet Air Pressure Bar	4	5	7	8	10	12	14
Factor	0.77	0.86	1.00	1.05	1.14	1.21	1.27

Correction Factor For Inlet Air Temperature						
Air Temperature °C	30	38	42	45	50	55
Factor	1.38	1.11	1.00	0.92	0.80	0.69

Correction Factor For Ambient Temperature Changes							
Ambient Temperature °C	25	30	35	38	40	43	45
Factor	1.00	1.12	1.00	0.95	0.92	0.86	0.82

Correction Factor For Dewpoint Changes				
Dewpoint °C	3	5	7	10
Factor	1.0	1.09	1.18	1.38

- Technical data conforms to +/- 5%. Pilot Air reserves the right to modification without notice for design and technical improvements.
- Warranty: 12 months on all products listed.
- For over 30 years Pilot Air Compressors has been meeting the needs of industry. Ask us about your requirements.

(* Available during Pilot Air business hours of operation.)



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