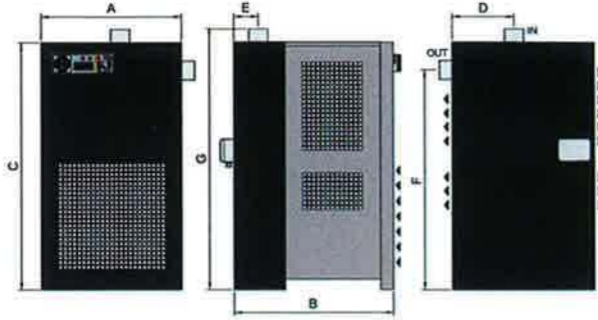


TECHNICAL FEATURES

Data refers to the following condition: Ambient temperature of 35°C, with inlet air at 7 barg and 42°C and 3°C pressure DewPoint (-22°C atmospheric pressure DewPoint). Max. working condition: Ambient temperature 45°C, Inlet air temperature 55°C and Inlet air pressure 14 barg.



Model	Flow-Rate		Pressure Drop (bar)	Connections Ø(IN-OUT)	Power Supply (Ph/V/Fr)	Dimensions (mm)							Weight (kg)
	(L/sec)	(scfm)				A	B	C	D	E	F	G	
ACT 5 T	8.9	19	0.02	G 1/2" BSP-F	1/230/240/50	345	420	740	158	56	700	770	29
ACT 8 T	14.1	30	0.04	G 1/2" BSP-F	1/230/240/50	345	420	740	158	56	700	770	31
ACT 12 T	19.8	42	0.06	G 1/2" BSP-F	1/230/240/50	345	420	740	158	56	700	770	32
ACT 18 T	30.2	64	0.07	G 1" BSP-F	1/230/240/50	485	455	785	130	69	705	825	39
ACT 23 T	38.2	81	0.10	G 1" BSP-F	1/230/240/50	485	455	785	130	69	705	825	41
ACT 40 T	66.5	141	0.19	G 1.1/4" BSP-F	1/230/240/50	485	455	785	130	69	705	825	50
ACT 60 T	103	219	0.16	G 1.1/2" BSP-F	1/230/240/50	555	580	885	135	85	800	940	63
ACT 100 T	175	371	0.13	G 2" BSP-F	1/230/240/50	555	625	975	245	100	865	1,035	107
ACT 140 T	242	512	0.11	G 2.1/2" BSP-F	1/230/240/50	665	725	1,105	375	190	930	1,155	116
ACT 180 T	300	636	0.12	DN 80-PN 16	3/400/415/50	785	950	1,410	500	220	1,155	1,500	185
ACT 210 T	350	742	0.18	DN 80-PN 16	3/400/415/50	785	950	1,410	500	220	1,155	1,500	190
ACT 250 T	417	883	0.10	DN 80-PN 16	3/400/415/50	785	950	1,410	500	220	1,155	1,500	250
ACT 300 T	500	1,060	0.17	DN 80-PN 16	3/400/415/50	785	950	1,410	500	220	1,155	1,500	275

(Larger dryers available upon request)

CORRECTION FACTOR FOR OPERATING PRESSURE CHANGES:

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

CORRECTION FACTOR FOR AMBIENT TEMPERATURE CHANGES:

Ambient temperature	°C	25	32	35	38	40	43	45
Factor		1.09	1.04	1.00	0.95	0.92	0.86	0.82

CORRECTION FACTOR FOR INLET AIR TEMPERATURE CHANGES:

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 DEWPOINT CHANGES:

DewPoint	°C	3	5	7	10
Factor		1.00	1.09	1.18	1.38

NSW ADDRESS

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Telephone: (02) 9648 3099 Facsimile: (02) 9648 3362

QUEENSLAND ADDRESS

Unit 11-97 Jijaws Street, Sumner Park QLD 4074
Telephone: (07) 3279 1213 Facsimile: (07) 3279 1762



- High standards ensure reliability and service life, however, a full coverage for 12 months on all products listed gives complete confidence.
- With over 30 years experience providing reliability and versatility in the compressed air industry, Pilot Air can meet your requirements.
- Pilot Air reserves the right to modification without notice for design or technical improvements.

DISTRIBUTED BY:

Website: www.pilotair.com.au

RATED FOR AUSTRALIAN CONDITIONS

ACT Dryer Series



DRYERS BUILT FOR AUSTRALIAN CONDITIONS

Pilot Air has increased its range of compressed air dryers with the introduction of the new ACT range (Aluminium Cooling Technologies). This high efficiency cooling module has a direct effect on reducing energy consumption and pressure drop.

The main advantages are:

- Low pressure drop even with load variances;
- Constant pressure DewPoint with differing load conditions;

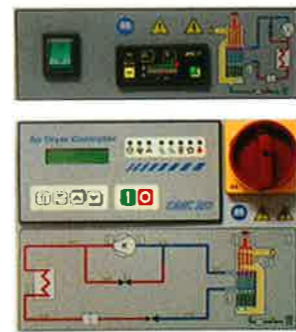
The ACT range is RATED and SPECIFIED for AUSTRALIAN conditions with flow rates based on an ambient temperature of 35°C.

Ensure that when sizing a dryer to suit your requirements, you take into account the pressure, ambient and inlet temperatures your air compressor operates in.

TECHNICAL DETAILS

CONTROL PANEL

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



The DMC20 electronic controller is fitted as standard to models ACT 900 T – 1800 T and as an option to models ACT 180 T – 300 T.

"HOT GAS" BY-PASS VALVE

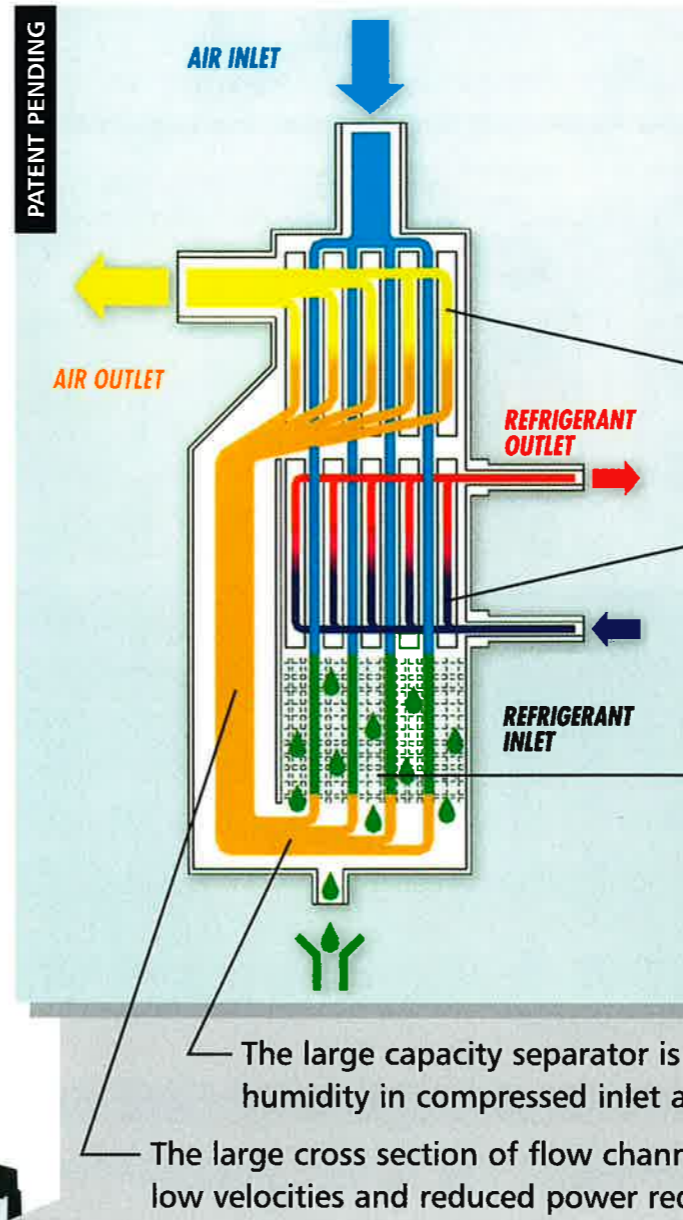
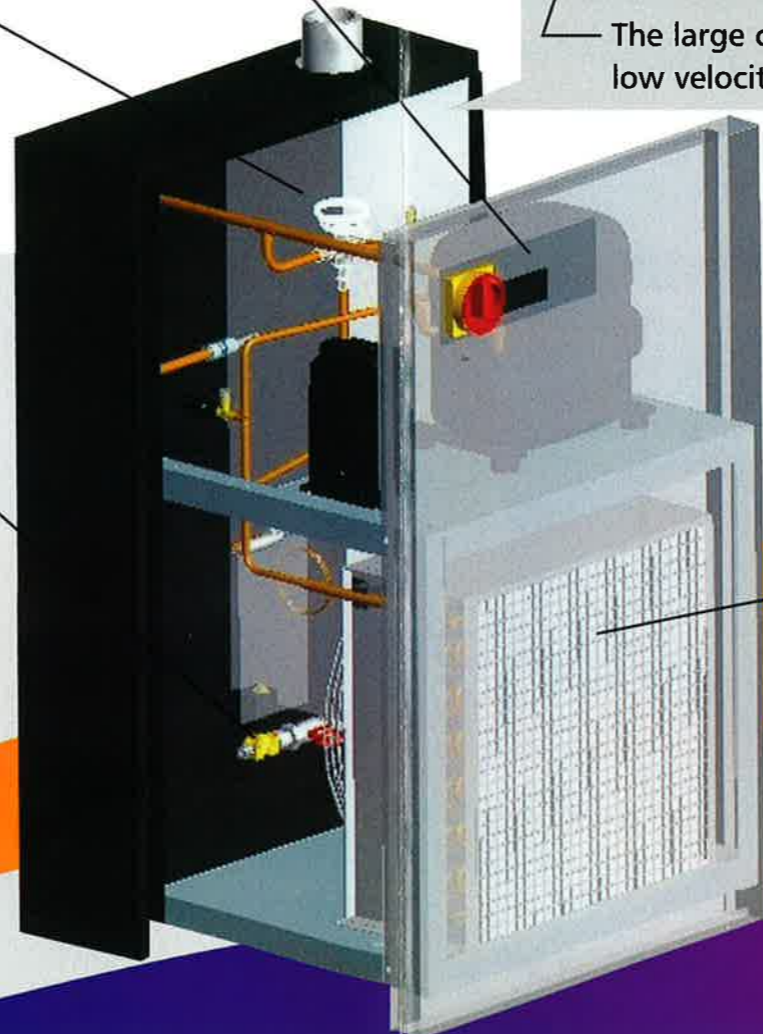
This innovative new design, incorporating greater precision and accuracy, prevents the formation of ice inside the evaporator under any load condition.



The valve is set during final test and no further adjustments are necessary.

CONDENSATE DRAIN

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



ALU-DRY MODULE

The air-to-air and the air-to-refrigerant heat exchangers plus the demister type condensate separator are housed in a unique module.

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

The 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 exchanger module.

No maintenance is required and the coalescing effect results in a high degree of moisture separation.

The large capacity separator is designed to hold condensate also at high humidity in compressed inlet air

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



It is mandatory to install a filter (with filtration grade at least 5 micron) on the dryer inlet side to prevent rust, scale or other pollutants clogging the Alu-Dry Module and the condensate drain.

CONDENSER

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

Access to the condenser for cleaning and maintenance is straightforward.