Refrigerated Air Dryer - KA-R Series

INNOVATION

In compressed air systems, to prevent corrosion from condensed water is a very important issue. In order to deal with the task, the preferred method is to install the **Air Dryer.** With this type of equipment, huge volumes, high pressure losses, complex piping designs and corrosion resistance in traditional types of heat exchangers, are the main problems which engineers are trying to overcome.

A new approach to small and medium capacity air dryers has led AU Dryers to develop a highly efficient twin heat exchanger air dryer. As usual, AU Dryers use a stainless steel heat exchanger, not just for corrosion resistance but also mechanical strength.

These new heat exchangers use two systems. Firstly, a Turbo Tube primary heat exchanger pre-cools the air via the out-going cold air. Large surface areas are engineered by using spiral flow paths, maximising heat exchange potential.

Secondary heat exchange of pre-cooled air is via a Cross-Wave Fin type exchanger. This heat exchanger uses refrigerant gas tubes and special wave fin plates, to not only transfer cold from the refrigerant, but also to efficiently separate and drain water.

All of the above is housed in a stainless steel shell for maximum durability.

A unique design and only available from AU Dryers Australia.

CORE FEATURES AND BENEFITS

- Twin heat exchangers in stainless steel.
- Up to 50% energy reduction and very low pressure drop.
- Up to 30% less space.
- Ni (nickel plated) copper tubes for corrosion protection in refrigerant/compressed air system.
- Over 40ºC ambient capable.

OPTIMAL SYSTEM DESIGN

- Hot gas bypass valve is integrated to prevent freezing and damage to the heat exchanger. The operation of the units remain stable with stable dew points.
- The controller of the condenser fan ensures stability under low load and low ambient temperature conditions.
- High performance refrigerant compressors installed throughout the range.
- Twin stainless steel heat exchanger provides superior drying with the lowest energy consumption.
- Very low pressure drop. Over 50% power savings due to pressure drop on some models compared to other systems.
- Refrigerant over pressure protection to protect the compressor from premature failure.
- Super compact and easy to install and service.
- Spare parts are readily available in Australia from many suppliers.
- Excellent corrosion resistance and strength, ease of maintenance, cleaning and operation.

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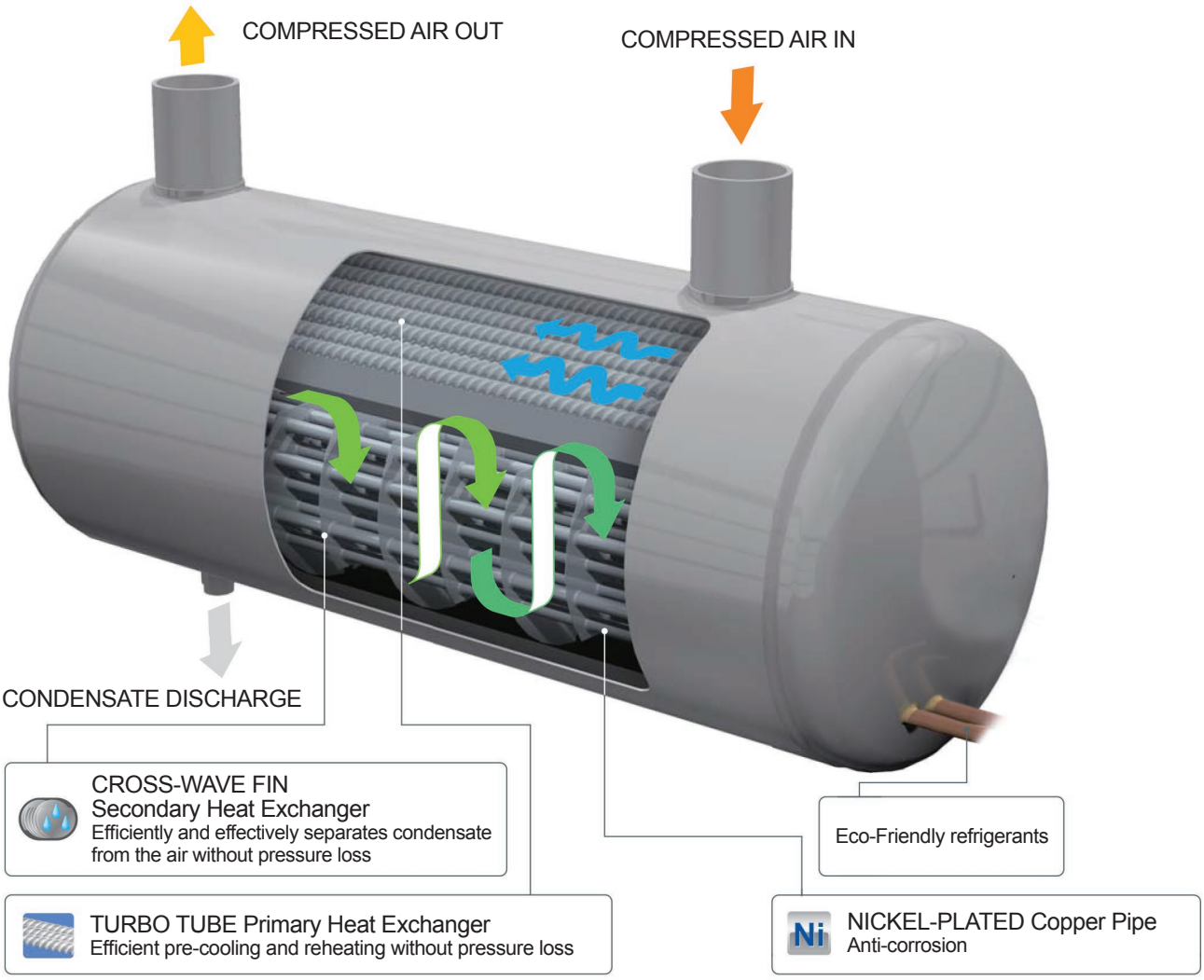
Digital display includes adjustable remote alarm as standard. Reliable and simple controller with local availability. (Dryer can work independantly from controller).

KA-R Refrigerated Air Dryer - Twin Heat Exchangers



SPECIFICATION

MODEL NUMBER	FLOWRATE Capacity (FAD)		PIPE CONN.	POWER SUPPLY	INSTALLED POWER KW	DIMENSIONS			WEIGHT kg
	m^3/min	cfm				Width	Depth	Height	
KA-R 006	1.27	45	¾"	240V	0.4	515	758	255	27
KA-R 008	1.76	62	¾"	240V	0.5	515	758	255	29
KA-R 010	2.55	90	1"	240V	0.9	627	832	255	35
KA-R 015	3.80	134	1"	240V	0.9	627	832	255	37
KA-R 020	4.76	168	1"	240V	0.9	627	832	255	39
KA-R 030	7.36	260	1½"	240V	1.4	922	979	305	70
KA-R 040	9.91	350	1½"	240V	1.5	922	979	305	82
KA-R 050	12.04	425	2"	415V	1.6	1140	973	470	110
KA-R 060	14.16	500	2"	415V	1.7	1140	973	470	115

Data refers to operating pressure 7 bar (g), ambient temperature 25 Deg C, air inlet temperature 35 Deg C, pressure dew-point 3 Deg C.
Maximum working pressure 10 bar (g), maximum ambient temperature 50 Deg C, maximum air inlet temperature 60 Deg C.

High pressure, water cooled and larger sizes available upon request.

Technical data is subject to change without notice due to continuous improvement.

QUANTUM AIR COMPRESSORS