

The **Breezair** **RPA X900**

Heavy Duty Evaporative Air Cooler

The reliable and effective **RPA evaporative air coolers** are proven performers for heavy duty industrial cooling. They are a cooler of choice for contractors where high static pressure and/or complex ductwork is experienced. Breezair RPA Evaporative Coolers provide a low cost, low maintenance and energy efficient method of cooling your every application.



Cabinet

The cabinet is constructed of marine grade aluminium, incorporating channel section corner pillars, mounted on a heavy gauge base frame for structural stability. Many components have been powder-coated for extra corrosion protection. Cabinet fasteners are stainless steel, monel, nylon and aluminium.

Blower Wheel

The blower wheel is a double inlet, multi blade, forward curve, centrifugal type. Constructed from galvanised steel, the wheel is statically balanced. The blower shaft is precision ground solid stainless steel and is mounted in rubber insulated, self aligning, single row ball bearings.

Water Reservoir

The water reservoir is a one piece rotational moulding of polyethylene, providing a thick walled, corrosion free component with excellent sound deadening properties.

Fan Motors

Three phase motors are TEFC tropic proof, aluminium frame, IP55 enclosures to AS 1359.

Electrical Control

The **three phase starter assembly** is prewired within the unit and incorporates a dual contactor assembly for control of the high and low speeds. The enclosure is hoseproof to IP55 and incorporates an isolation switch. The **wall control switch** supplied incorporates pump, fan and speed variation mechanisms.

Water Connection

Water supply connection is 1 1/2" BSP, this connects directly to a 1 1/2" NB standard approved ball valve. Bleed off adjustment is by an external valve located at the corner pillar.

Filter Pads

Chillcel™ with a typical saturation efficiency of 80 %.

Unit Rating

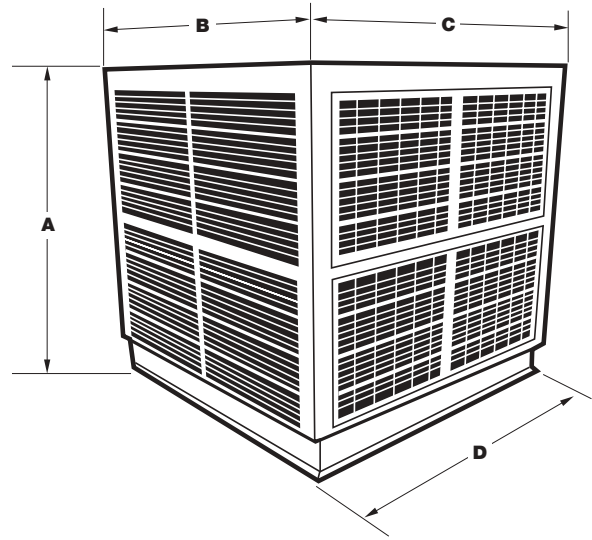
Units are factory set to run, "free discharge" at the motor rated current, unless operating conditions are specified. Motor ratings, pulley and belt sizes are nominal, and may vary slightly due to manufacturing tolerances. Larger and smaller belts and pulleys available on request.

Technical specifications

Specifications		RPX900
Capacity	High nominal m ³ /hr	32400
	Low nominal m ³ /hr	21600
Blower Wheel	Dia x Width mm	760 x 635
	Shaft Dia mm	31.75
	Pulley mm	455 x 2A
	Speed RPM	340:230
	Tip Speed m/s	13.6
	Outlet mm	775 x 755
	Outlet Vel. m/s	15.2
Motor	Type	2 Speed 3 Phase
	Speed RPM	1450 : 955
	Rating kW	4.5 : 1.1
	Supply	415 50Hz 3 Phase
	Overload	Auto Reset
	Pulley- Fixed mm	132 x 38 x 2A
Pumps x2	Type	Centrifugal, Encapsulated Shaded Pole
	Rating Watts	50
	Flow Rate L/min	24
	Overload	Auto Reset
Filter Pads	Area m ²	6.0
	Velocity m/s	1.5
	Material	Chillcel™
Water Reservoir	Capacity litres	128
	Drain size (mm)	40 (1½"bsp)
Shipping	Height mm	1630(Unit 1510)
	Length mm	1560
	Width mm	1560
	Volume m ³	4.0
	Mass kg	295
	Net Unit kg	265
	Operating kg	393

Cooling capacity calculated to Australian standard AS 2913 - 2000, ambient of 38°C dry bulb & 21°C wet bulb, with room exit temperature of 27.4°C

Cabinet Details



Model	A	B	C	D
RPAX900	1510	1520	1520	1478

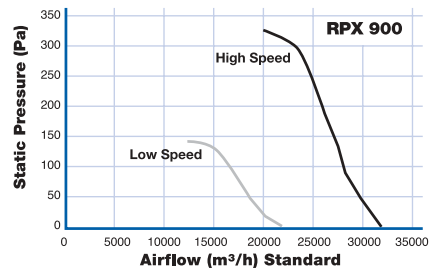
Note: All dimensions are in mm

Cooler Discharge Air Temperature Chart

Ambient Dry Bulb Temperature	Ambient Relative Humidity %								
	10	20	30	40	50	60	70	80	90
10 °C	3.3	4.0	4.8	5.6	6.4	7.2	8.0	8.6	9.4
15 °C	6.6	7.8	8.8	9.8	10.8	11.7	12.6	13.4	14.3
20 °C	10.1	11.4	12.8	13.9	15.2	16.2	17.2	18.2	19.2
25 °C	13.4	15.0	16.6	18.0	19.4	20.6	21.8	22.9	24.0
30 °C	16.6	18.6	20.4	22.0	23.6	25.0	26.4	27.7	28.9
35 °C	19.8	22.2	24.2	26.2	28.0	29.6	31.0	32.4	33.7
40 °C	23.0	25.6	28.1	30.4	32.3	33.9	na	na	na
45 °C	25.9	29.2	32.0	34.4	na	na	na	na	na
50 °C	29.0	32.7	35.8	na	na	na	na	na	na

This chart represents approximate air temperatures based on 80% saturation efficiency at sea level. From tests carried out to Australian Standard 2913

Fan Curves



Our Company has a policy of continuous product development and therefore reserves the right to make changes to these specifications without notice



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