

Intelligent technology: Breezair RPB/X Series

RPB 600 - 1800

The reliable and effective RPB series Evaporative Air Conditioners are proven performers for heavy duty industrial and commercial cooling. They have long been preferred by mechanical contractors for their outstanding reliability and cost effectiveness. Installed in a myriad of applications, these coolers have provided low cost, low energy and maintenance cooling year after year.



Breezair
NUMBER ONE IN NATURAL COOLING



Breezair ICDN Series Airconditioner
Braemar TCO Ducted Gas Heater



Recognition of achievement at the
2006 Energy & Water Green Globe Awards
Sesley International



www.energysaving.gov.au
Australian Greenhouse Office
Energy Efficiency Star Awards
Entrepreneur Award 2006

General specifications

Product Features:

Cabinet

The cabinet is constructed from 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 curved, centrifugal type. Constructed from galvanised steel, the wheel is statically balanced. The blower shaft is mounted in plumber blocks with, 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. Motor amperes can vary depending on supplier.

Electrical Control

The Three Phase Starter Assembly is prewired within the cooler and incorporates a dual contactor assembly for control of the high and low speeds. Current overloads are fitted to both high and low speed contactors. The enclosure is hose proof to IP55 and incorporates an isolation switch. The wall control switch supplied incorporates the pump, fan and speed variation mechanisms

Water Connection

Water supply connection is 1/2" BSP, this connects directly to a 1/2" NB standard approved ball valve.

Cooling Pads

Cooling pads are Chillcell™ with a minimum operating saturation efficiency of 80%. The cooling pads are housed in UV stabilized polypropylene pad frames, structurally very strong and guaranteed against corrosion for 25 years.

Cooler Rating

Coolers are factory set to run, "free discharge" at the motor rated current, unless operating conditions are specified.

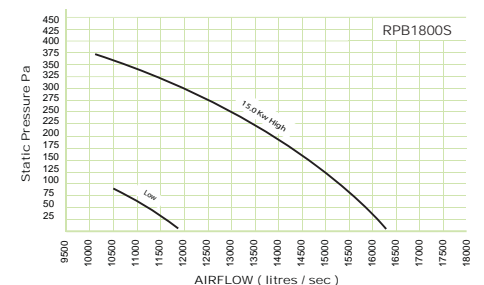
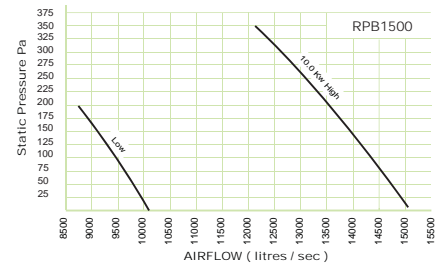
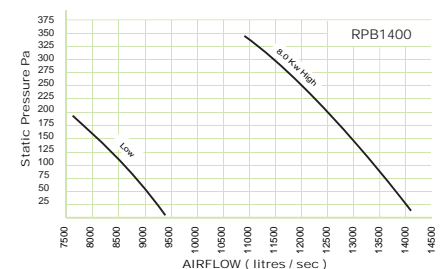
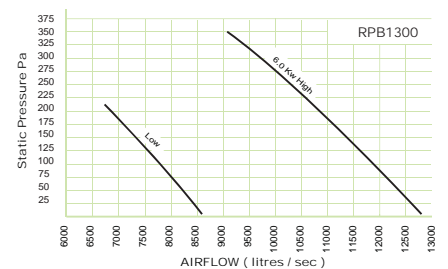
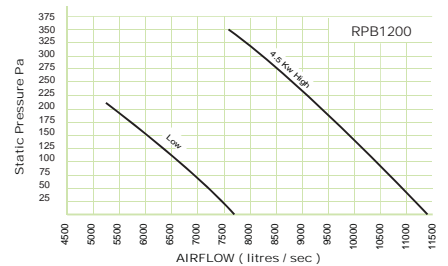
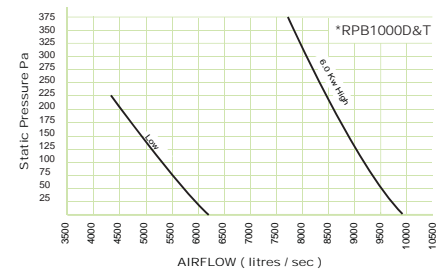
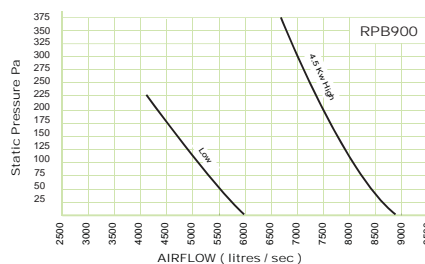
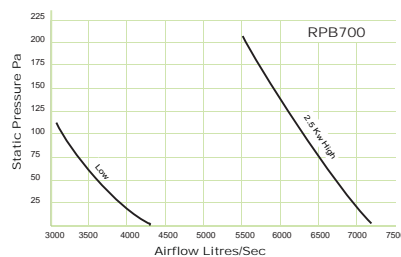
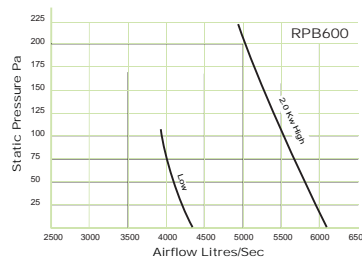
Motor Ratings, Pulley and Belt sizes

are nominal, and may vary slightly due to manufacturing tolerances. Larger & smaller motor pulleys and belts available on request.

Special Features

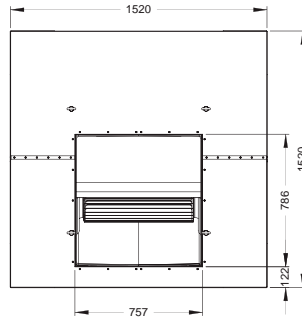
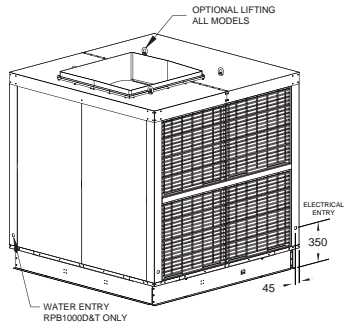
Bleed off adjustment provided via external valve located at the corner pillar. A main power isolation switch is provided.

Technical Details: Fan Curves

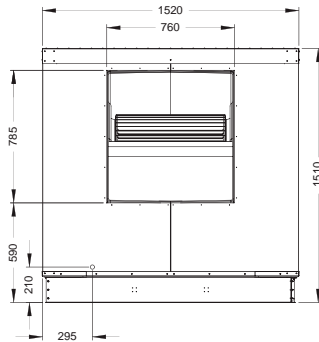
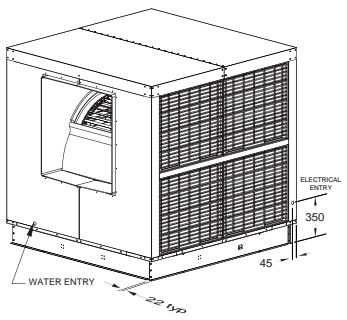


RPB600 - 1000 Cabinet details

RPB600-900 Top discharge Shown
 RPB1000 Down & Top discharge
 have pads on all sides



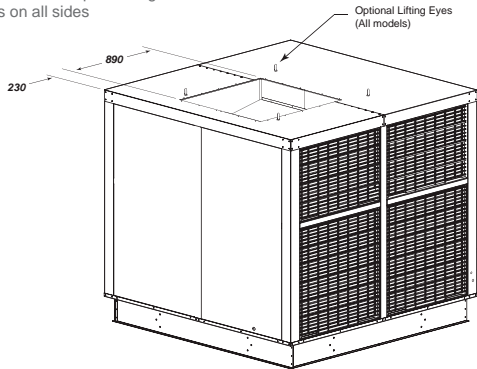
RPB600 - 900 Side discharge Shown
 (Not available in RPB1000)



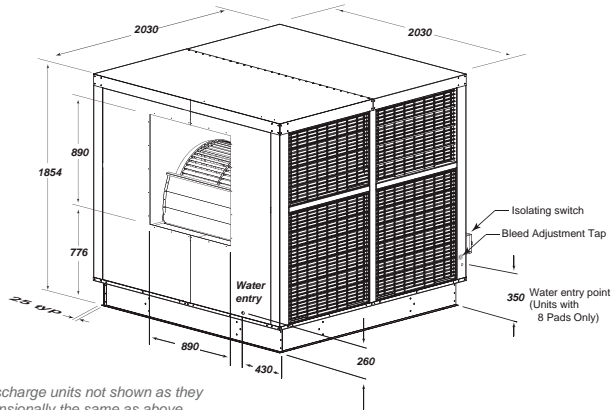
NOTE
 Down discharge units not shown as they
 are dimensionally the same as above.

RPB1200 - 1800 Cabinet details

RPB1200-1500 Top discharge Shown
 RPB1800 Down & Top discharge
 have pads on all sides

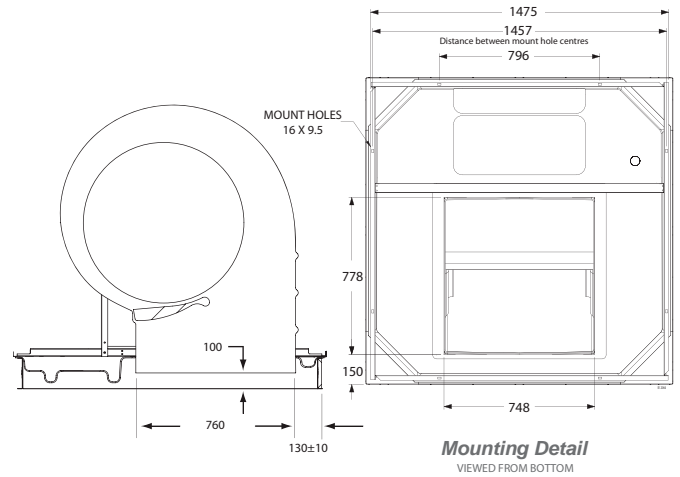
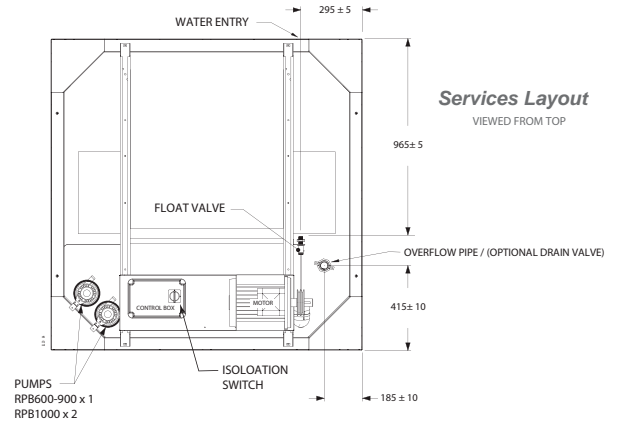


RPB1200 - 1800 Side discharge Shown

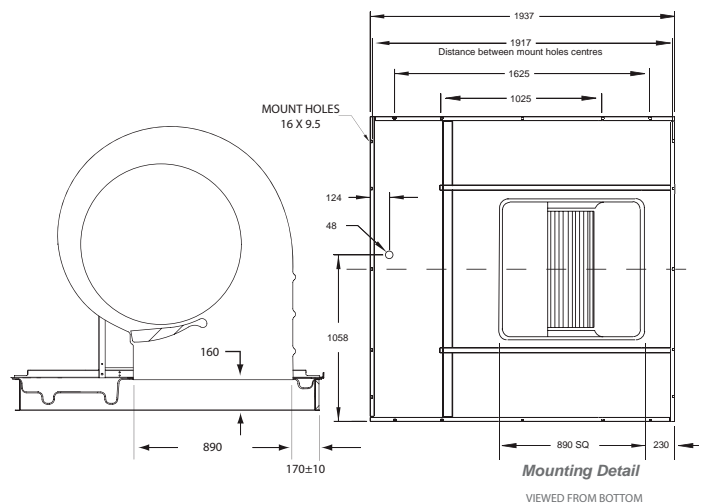
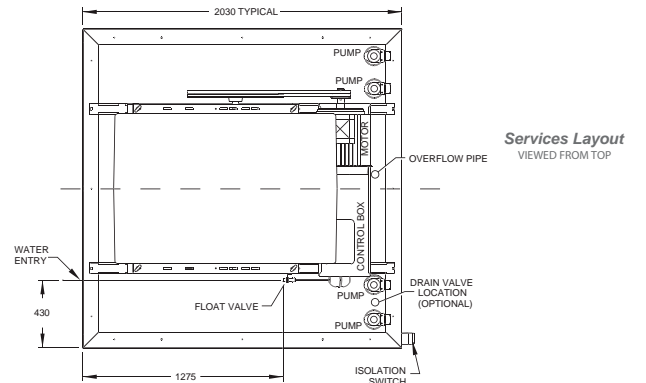


NOTE
 Down discharge units not shown as they
 are dimensionally the same as above.

RPB600 - 1000 Services and Mounting details



RPB1200 - 1800 Services and Mounting details



Technical specifications

Specifications		RPB/X 600	RPB/X 700	RPB/X 900	RPB/X 1000	RPB/X 1200	RPB/X 1300	RPB/X 1400	RPB/X 1500	RPB/X 1800
Airflow (@ zero static)	High (L/Sec)	6100	7200	8900	9900	11400	12800	14200	15100	17900
	Low (L/Sec)	4360	4620	6000	6625	6625	8545	9435	10005	12052
Cooling Capacity (@ 80 Pa & 80% Sat. Efficiency)	High Speed (kW)	20.7	23.7	30.4	34.2	39.0	44.3	49.8	53.1	D&T 63.3 S 56.9
Blower Wheel	Dia x Width (mm)	760x635	760x635	760x635	760x635	820x800	820x800	820x800	820x800	820x800
	Shaft (mm)	31.75	31.75	31.75	31.75	40	40	40	40	40
	Pulley (mm)	455x2A	455x2A	455x2A	455x2A	455x2A	455x2B	615x2B	615x2B	615x2B
	Speed (RPM)	285/190	355/224	398/262	421/277	319/210	376/248	354/233	377/248	453/304
	Tip speed (m/s)	11.3	13.4	15.9	16.7	13.7	16.1	15.2	16.2	19.4
	Outlet (mm)	775x755	775x755	775x755	775x755	890x890	890x890	890x890	890x890	890x890
	Outlet vel (m/s)	10.5	12.3	15.1	16.9	14.5	16.1	17.8	19.0	22.3
Motor	Type	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase	2 Speed 3 Phase
	Speed (RPM)	1450/950	1450/950	1450/950	1450/950	1450/950	1450/950	1450/950	1450/950	1450/950
	Rating (kW)	2.0	2.5	4.5	6.0	4.5	6.0	8.0	10.0	15.0
	Current (amp)	4.3:2.9	4.7:2.9	8.5:5.3	11.7:6.6	8.5:5.3	11.7:6.6	16.2:7.0	18.5:10.8	26:10.5
	Supply	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase	415v/50hz 3 phase
	Overload	Manual reset	Manual reset	Manual reset	Manual reset	Manual reset	Manual reset	Manual reset	Manual reset	Manual reset
	Pulley (mm)	90 x 28 x 2A	106 x 28 x 2A	125 x 38 x 2A	132 x 38 x 2A	100 x 38 x 2A	118 x 28 x 2B	150 x 42 x 2B	160 x 42 x 2B	190 x 42 x 2B
Pump	Type	Cent x 1	Cent x 1	Cent x 1	Cent x 2	Cent x 3	Cent x 3	Cent x 3	Cent x 3	Cent x (S)3 (D&T) 4
	Rating (watts)	50	50	50	50	50	50	50	50	50
	Flow Rate (L/min)	24	24	24	24	24	24	24	24	24
	Overload	Auto reset	Auto reset	Auto reset	Auto reset	Auto reset	Auto reset	Auto reset	Auto reset	Auto reset
Cooling Pads	Size mm (top)	595 x 580 (6)	595 x 580 (6)	595 x 580 (6)	595 x 580 (8)	795 x 580 (6)	795 x 580 (6)	795 x 580 (6)	795 x 580 (6)	795 x 580 (8)
	Size mm (bottom)	595 x 580 (6)	595 x 580 (6)	595 x 580 (6)	595 x 580 (8)	795 x 890 (6)	795 x 890 (6)	795 x 890 (6)	795 x 890 (6)	795 x 890 (8)
	Area (m ²)	4.14	4.14	4.14	5.52	7.0	7.0	7.0	7.0	9.4
	Velocity (m/sec)	1.48	1.74	2.13	1.79	1.64	1.82	2.01	2.15	1.89
	Material	Chillcel™	Chillcel™	Chillcel™	Chillcel™	Chillcel™	Chillcel™	Chillcel™	Chillcel™	Chillcel™
Water	Capacity (L)	65	65	65	65	100	100	100	100	100
	Drain Size (mm)	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40	48/40
Shipping	Height (mm)	1630	1630	1630	1630	2050	2050	2050	2050	2050
	Length (mm)	1560	1560	1560	1560	2100	2100	2100	2100	2100
	Width (mm)	1560	1560	1560	1560	2100	2100	2100	2100	2100
	Volume (m ³)	3.97	3.97	3.97	3.97	9.04	9.04	9.04	9.04	9.04
	Mass (kg)	295	295	331	376	415	447	457	468	513
	Net unit (kg)	265	265	301	346	375	417	427	438	473
	Operating (kg)	330	330	366	411	475	517	527	538	573

*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.

Breezair®
Advanced natural cooling

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