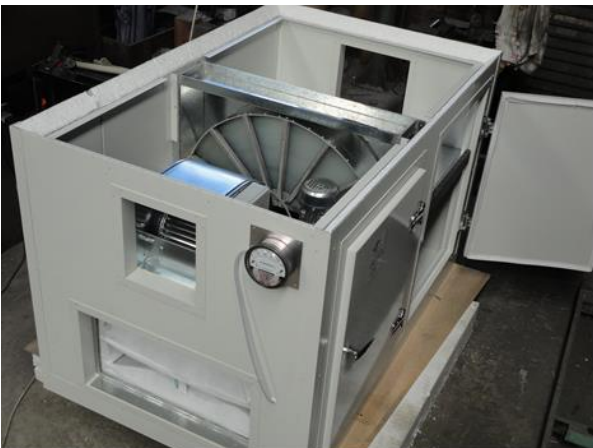




ROTARY HEAT EXCHANGERS PTY LTD

ECOPOWER DOUBLE EVAPORATIVE INDIRECT COOLER

- **Low energy usage – High Coefficient of Performance**
- **100% Fresh Air**
- **Cooler and drier than direct evaporative cooling**
- **Cooling Performance increases with extreme temperature conditions**
- **Out performs conventional cooling systems**



ECOPOWER DOUBLE EVAPORATIVE INDIRECT COOLER

A

Out Door tdb/twb	10 ³ w	rh%	Q l/s	W (Kw)	TR	TS	q (kW)	COP	RHE	L	W	H
36/21	9.6	48.30%	1000	1.34	25	17.9	21.9	16.3	1000	1500	1200	1200
			1500	2.01	25	17.9	32.85	16.3	1270	1900	1500	1500
			2000	2.68	25	17.9	43.8	16.3	1500	2200	1800	1800
			3000	4.02	25	17.9	65.7	16.3	1780	2600	2200	2200
			4000	5.36	25	17.9	87.6	16.3	1980	2900	2500	2500
			5000	6.7	25	17.9	109.5	16.3	2235	3100	2700	2700
			6500	8.71	25	17.9	142.4	16.3	2540	3400	3000	3000
			7600	10.18	25	17.9	166.4	16.3	2750	3600	3200	3200

B

Out Door tdb/twb (C)	10 ³ w	rh%	Q (l/s)	W (kW)	TR (C)	TS (C)	q (kW)	COP	RHE	L (mm)	W (mm)	H (mm)
40/21.5	8.6	43.60%	1000	1.34	25	17.3	27.5	20.5	1000	1500	1200	1200
			1500	2.5	25	17.3	41.25	16.5	1270	1900	1500	1500
			2000	3.2	25	17.3	55	17.2	1500	2200	1800	1800
			3000	4.52	25	17.3	82.5	18.3	1780	2600	2200	2200
			4000	5.86	25	17.3	110	18.8	1980	2900	2500	2500
			5000	7.2	25	17.3	137.5	19.1	2235	3100	2700	2700
			6500	9.21	25	17.3	178.8	19.4	2540	3400	3000	3000
			7600	10.68	25	17.3	209	19.6	2750	3600	3200	3200

NOTES:

The ECOPOWER DOUBLE EVAPORATIVE INDIRECT COOLER uniquely uses two high performance evaporative coolers combined with a high performance RHE to provide substantially higher cooled and dryer fresh air than with conventional evaporative cooling.

The above performance of 8 modular size units are based on the Rotary Heat Exchanger (RHE) sizes of 1000mm Dia up to 2750mm Dia wheels for two typical Melbourne high temperature conditions A & B depicted by dry and wet bulb temperatures.

Q (l/s)	Fresh Air Supply
TS (C)	Fresh Air Supply Temp
TR (C)	Room Temp
W (kW)	Electric power input (two fans, small wheel drive and water pump)
q (kW)	Total Cooling Effect
COP	Coefficient of Performance (q/W)
RHE	Rotary Heat Exchanger www.rotaryheat.com