



TECHNICAL SPECIFICATIONS - RPS

GENERAL SPECIFICATIONS:

RPS direct evaporative coolers are designed to supply large volumes of 100% fresh, cool, outside air offering a cost-effective solution for ventilating and cooling large spaces.

RPS is available in 2 different capacities with the option of Down (D), Side (S), or Top (T) discharge directions to suit a variety of installation requirements.

CABINET

The cabinet is constructed from marine grade aluminium, incorporating channel section corner pillars, mounted on a heavy gauge base frame for structural stability. The internal cooler frame is constructed from aluminium for corrosion protection. Cabinet fasteners are stainless steel, aluminium. Outer panels are painted "Basalt" grey.

Cooler cabinets are supplied with 4 eye bolt lifting points to assist in lifting.

FAN

The fan is a galvanised steel forward curved centrifugal blower mounted inside a polyethylene scroll. The stainless steel blower shaft is mounted in pillow blocks with self aligning, sealed, single row ball bearings.

MOTOR

The fan motor is a 2-speed, IP55 rated, squirrel cage induction type, mounted externally to the fan, and connected via belts and taper lock pulleys. Thermal overload relays provide over current protection for both high and low speeds.

WATER RESERVOIR

The water reservoir is a single piece rotational moulded tank made from polyethylene, providing a thick walled, robust and corrosion free component.

COOLING PADS

The cooler is fitted with Chillcel® fabricated, honeycomb, high efficiency filter pads. Pads are located in moulded plastic UV stabilised louvers to enhance the appearance of the unit, protect the pads and minimize water splash.

ELECTRICAL

The electrical control box is pre-wired within the cooler and an external isolation switch is provided. Provision is included in the control box for connection of an optional drain valve and inlet water solenoid kit.

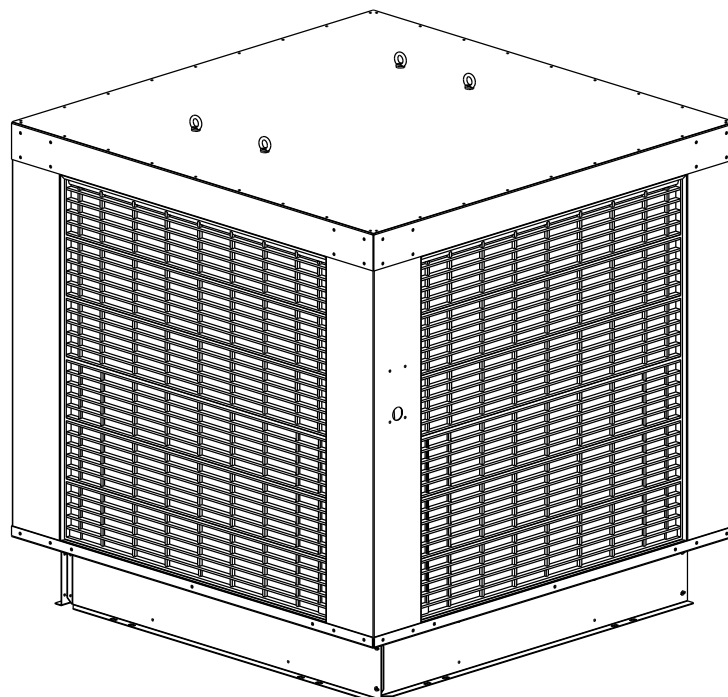
CONTROLS

The cooler is supplied with wall switch controls, providing fan ON/OFF, HIGH/LOW fan speed and pump ON/OFF controls allowing the cooler to be used in Ventilation or Cooling modes.

WATER

Water supply connection is 1/2" BSP. A float valve is used to control water level in the cooler. The cooler is fitted with a continuous bleed system to control water salinity in the unit and an overflow is provided to allow the unit to be connected to drainage.

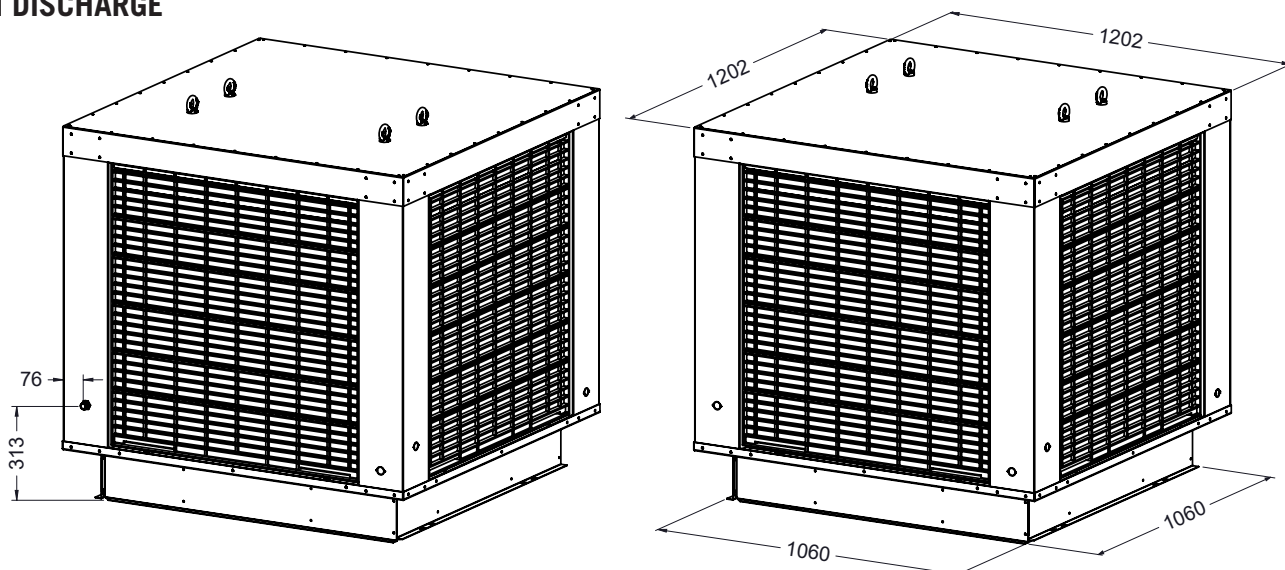
Optional Water Manager kits are available for improved salinity management and automatic drainage.



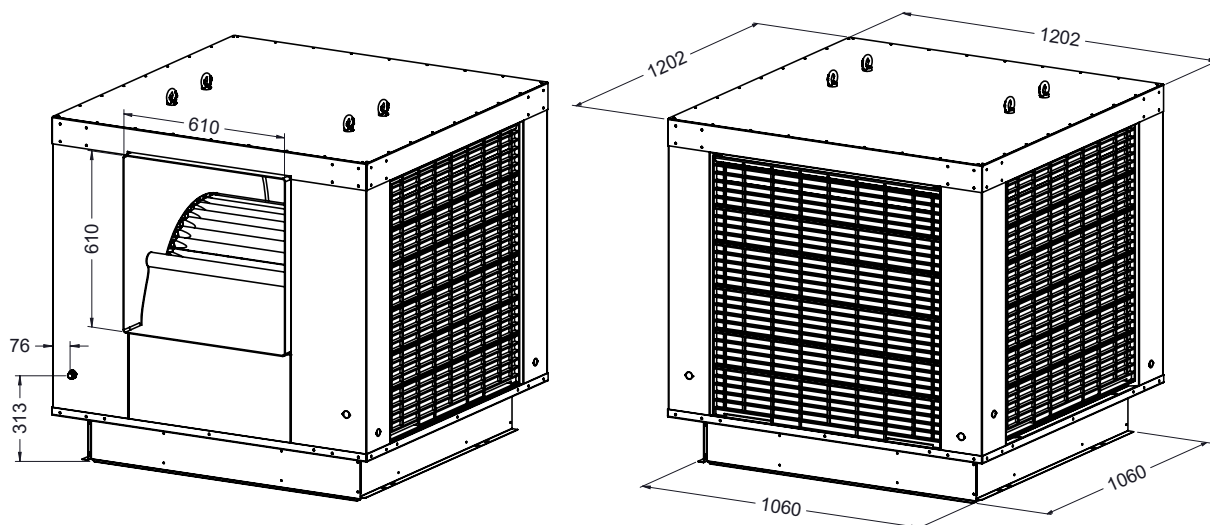


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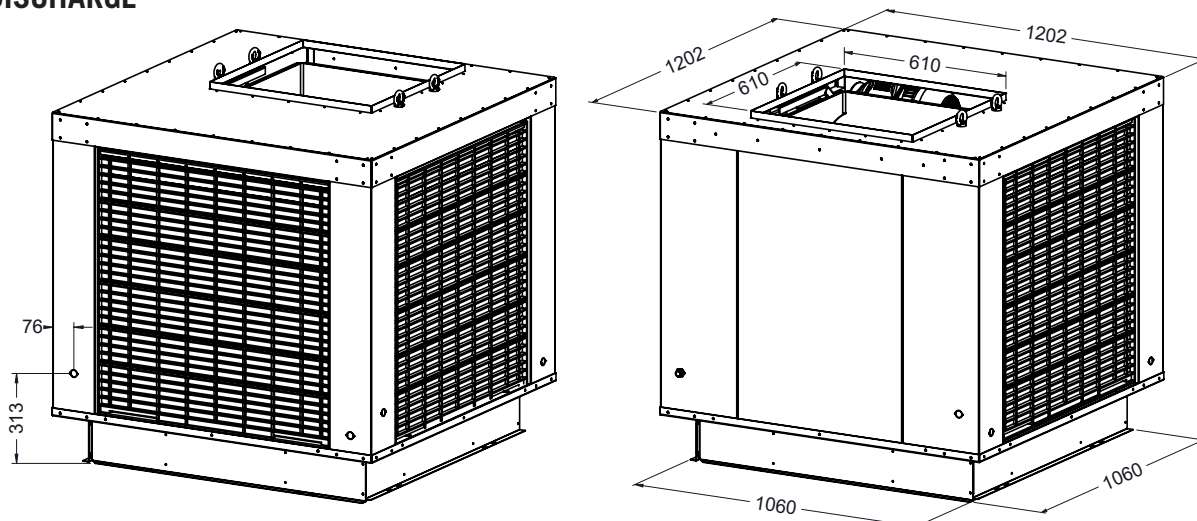
DOWN DISCHARGE



SIDE DISCHARGE



TOP DISCHARGE



Note: Side & Top Discharge units are 3-sided intakes, Down Discharge are 4-sided intakes. Dimensions are in mm

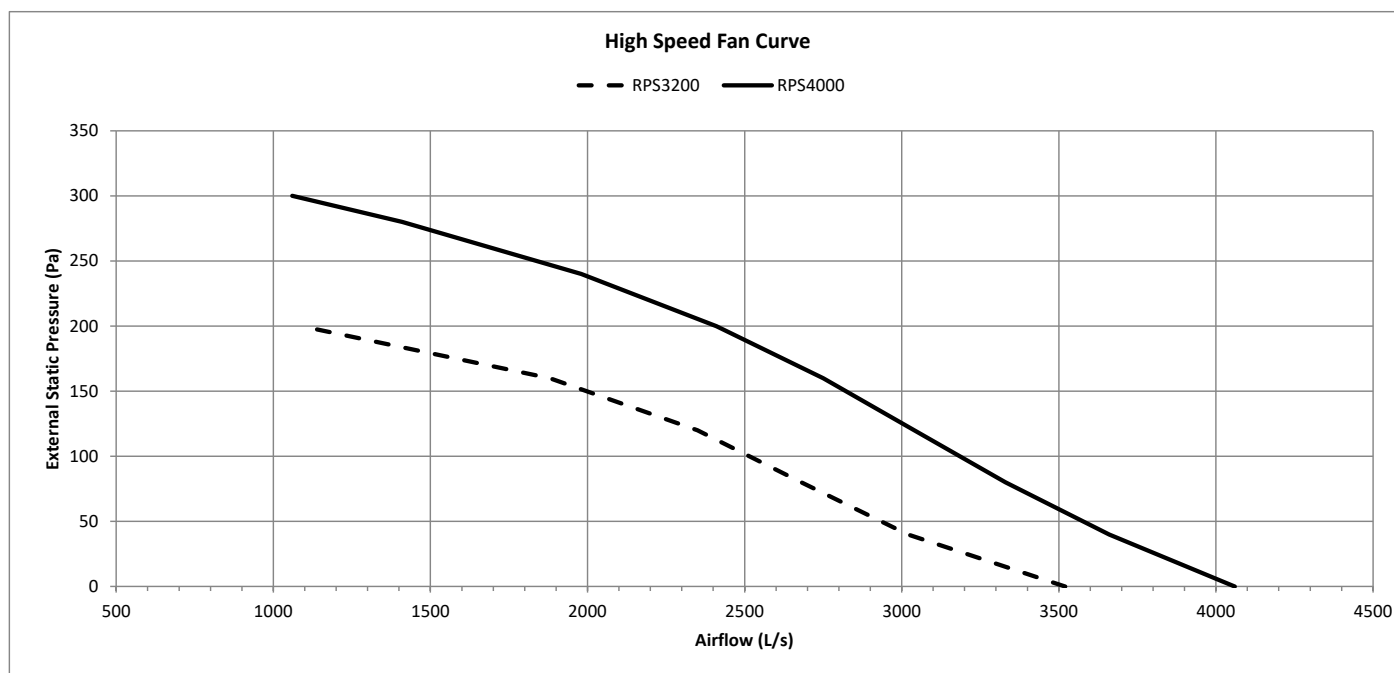
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MODEL			RPS3200	RPS3200	RPS4000	RPS4000
			SIDE / TOP	DOWN	SIDE / TOP	DOWN
			3-SIDED INTAKE	4-SIDED INTAKE	3-SIDED INTAKE	4-SIDED INTAKE
SERVICES	Electrical	Voltage	230 V / 1~ / 50Hz	230 V / 1~ / 50Hz	415 V / 3~ / 50Hz	415 V / 3~ / 50Hz
		Rated Current	8.1 A	8.1 A	5.9 A	5.9 A
		Max Input Power	1.6 kW	1.6 kW	2.8 kW	2.8 kW
	Water	Supply	20 L/m 100kPa - 800kPa	20 L/m 100kPa - 800kPa	20 L/m 100kPa - 800kPa	20 L/m 100kPa - 800kPa
		Max Temperature	45 °C	45 °C	45 °C	45 °C
		Inlet	1/2" Male BSP	1/2" Male BSP	1/2" Male BSP	1/2" Male BSP
		Drain	1-1/2" Male BSP	1-1/2" Male BSP	1-1/2" Male BSP	1-1/2" Male BSP
		Drain Flow Rate	15 L/min	15 L/min	15 L/min	15 L/min
	Duct Connections		610 x 610mm	610 x 610mm	610 x 610mm	610 x 610mm
AIR SYSTEMS	Fan	Fan	Centrifugal	Centrifugal	Centrifugal	Centrifugal
		Size	560mm	560mm	560mm	560mm
	Motor	Type	2 Speed Induction	2 Speed Induction	2 Speed Induction	2 Speed Induction
		Shaft Power	1.1 kW	1.1 kW	2.2 kW	2.2 kW
		Max Speed	1440 rpm	1440 rpm	1440 rpm	1440 rpm
		Overload	Auto Reset	Auto Reset	Motor Thermal Overload Relay	Motor Thermal Overload Relay
		IP Rating	IP55	IP55	IP55	IP55
	Material & Size		Chillcel® 1x 800 x 890 x 60mm 2x 800 x 890 x 90mm	Chillcel® 2x 800 x 890 x 60mm 2x 800 x 890 x 90mm	Chillcel® 1x 800 x 890 x 60mm 2x 800 x 890 x 90mm	Chillcel® 2x 800 x 890 x 60mm 2x 800 x 890 x 90mm
WATER SYSTEMS	Reservoir Capacity		50 L	50 L	50 L	50 L
	Pumps		1 Centrifugal Pumps 18 L/min ea. 230V 50Hz 60W ea.	1 Centrifugal Pumps 18 L/min ea. 230V 50Hz 60W ea.	1 Centrifugal Pumps 18 L/min ea. 230V 50Hz 60W ea.	1 Centrifugal Pumps 18 L/min ea. 230V 50Hz 60W ea.
	Optional Water Manager Kit (sold separately)	Inlet Valve	24 VAC Solenoid Valve	24 VAC Solenoid Valve	24 VAC Solenoid Valve	24 VAC Solenoid Valve
		Water Probes	2-pin Conductivity Probe	2-pin Conductivity Probe	2-pin Conductivity Probe	2-pin Conductivity Probe
		Drain Valve	24 VAC Vertical	24 VAC Vertical	24 VAC Vertical	24 VAC Vertical
DIMENSIONS	Shipping		1290mm Long x 1290mm Wide x 1370mm High	1290mm Long x 1290mm Wide x 1370mm High	1290mm Long x 1290mm Wide x 1370mm High	1290mm Long x 1290mm Wide x 1370mm High
	Operating		1200mm Long x 1200mm Wide x 1185mm High	1200mm Long x 1200mm Wide x 1185mm High	1200mm Long x 1200mm Wide x 1185mm High	1200mm Long x 1200mm Wide x 1185mm High
WEIGHT	Shipping		140 kg	140 kg	150 kg	150 kg
	Operating inc. water		190 kg	190 kg	200 kg	200 kg

High Speed Sound Power Level (dB re 1 pW)									
		Octave Band Centre Frequency							Total
FREQUENCY (Hz)		125	250	500	1k	2k	4k	8k	
RPS3200	Radiated	74	72	67	66	68	64	59	78
RPS4000	Radiated	80	75	74	72	74	70	60	83

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High Speed Performance Summary									
Static Pressure (Pa)		0	40	80	120	160	200	240	280
RPS3200 DOWN / SIDE / TOP	Airflow (L/s)	3,520	3,020	2,680	2,350	1,880	1,090	-	-
	Input Power (kW)	1.8	1.7	1.5	1.4	1.2	1.1	-	-
RPS4000 DOWN / SIDE / TOP	Airflow (L/s)	4,060	3,660	3,330	3,040	2,750	2,410	1,980	1,410
	Input Power (kW)	2.0	1.9	1.8	1.7	1.5	1.4	1.2	1.0



CONTROLS

The cooler is supplied with Wall Switch controls, providing fan ON/OFF, HIGH/LOW fan speed and pump ON/OFF controls.

