

## TECHNICAL SPECIFICATIONS - RPXL

### GENERAL SPECIFICATIONS:

RPXL 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.

RPXL 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 powder coated galvanised steel for corrosion protection. Cabinet fasteners are stainless steel or aluminium.

### FAN

The fan is a galvanised steel forward curved centrifugal blower mounted inside a sheet metal 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 thermoformed tank made from ABS, 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 aluminum frames to provide easy fitment and removal.

### 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.

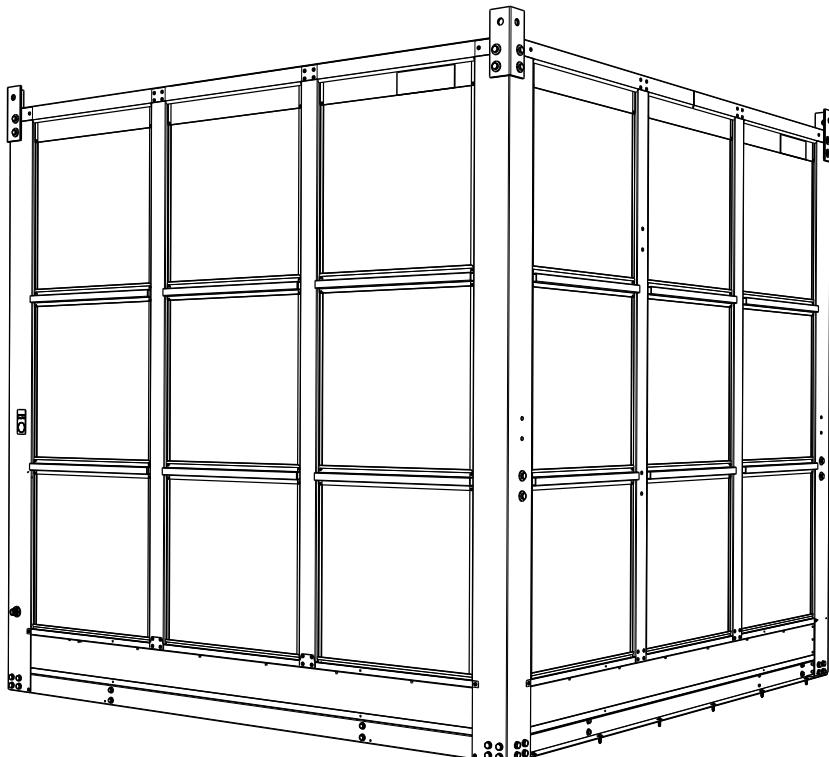
### CONTROLS

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

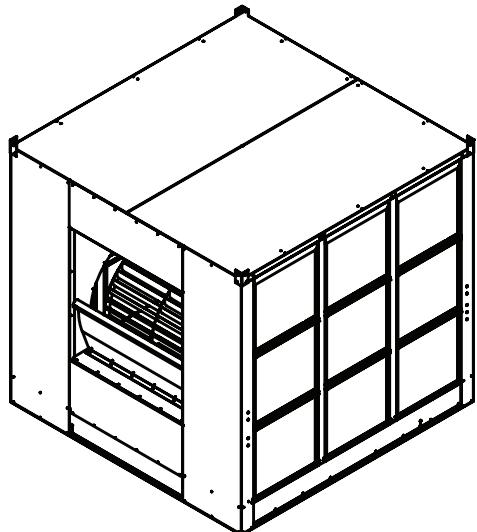
Water supply connection is 1/2" BSP. A float valve is used to control water level in the cooler. The cooler is fitted with a continuous bleed system to control water salinity in the unit and an overflow is provided to allow the unit to be connected to drainage.

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

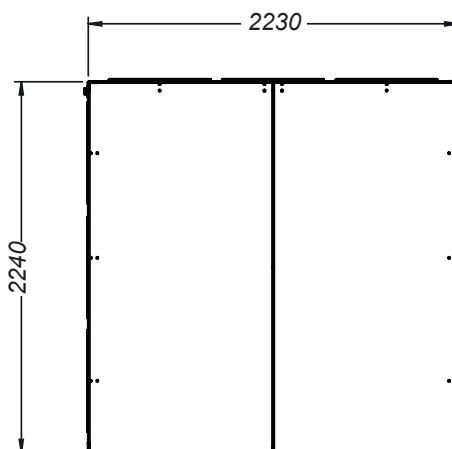


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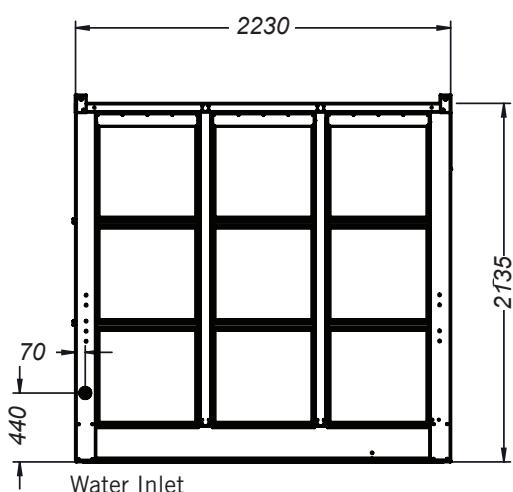
ISOMETRIC



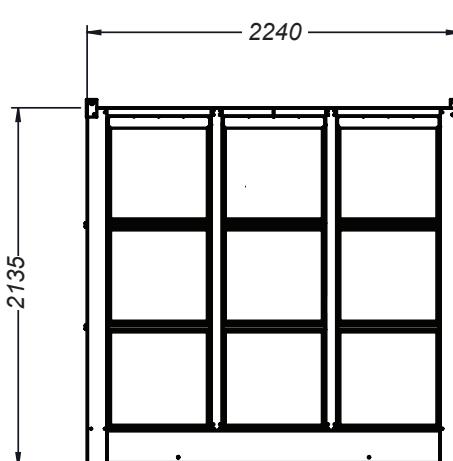
TOP



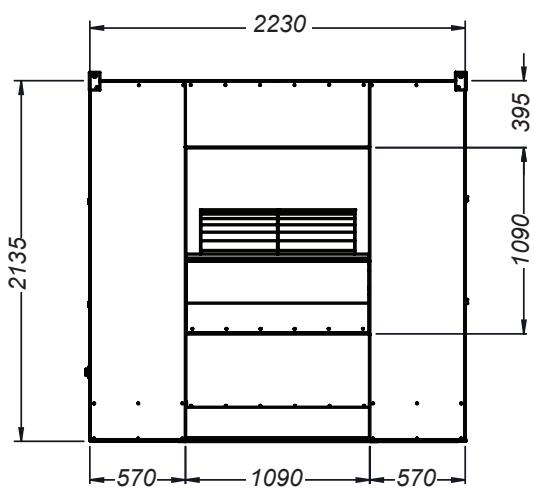
REAR



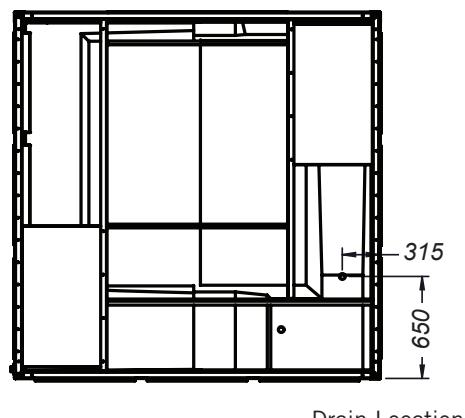
SIDE



FRONT



BOTTOM



Side Discharge option shown.  
Dimensions are in mm

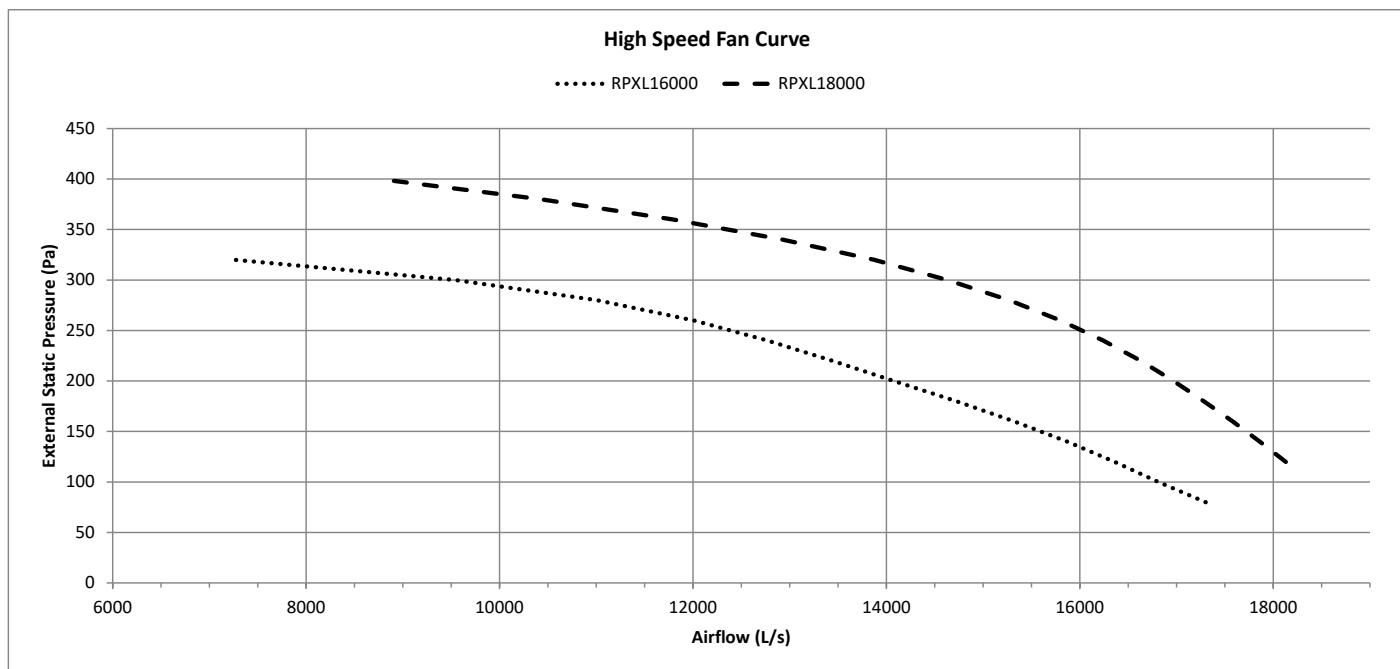
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MODEL			RPXL16000	RPXL18000
			DOWN / SIDE / TOP	DOWN / SIDE / TOP
			3-SIDED INTAKE	3-SIDED INTAKE
SERVICES	Electrical	Voltage	415 V / 3~ / 50Hz	415 V / 3~ / 50Hz
		Rated Current	32 A	34 A
		Max Input Power	17.5 kW	20.5 kW
	Water	Supply	20 L/m 100kPa - 800kPa	20 L/m 100kPa - 800kPa
		Max Temperature	40 °C	40 °C
		Inlet	1/2" Male BSP	1/2" Male BSP
		Drain	1-1/2" Male BSP	1-1/2" Male BSP
		Drain Flow Rate	15 L/min	15 L/min
	Duct Connections		1090 x 1090mm	1090 x 1090mm
AIR SYSTEMS	Fan	Fan	Centrifugal	Centrifugal
		Size	900mm	900mm
	Motor	Type	2 Speed Induction	2 Speed Induction
		Shaft Power	15.0 kW	18.5 kW
		Max Speed	1460 rpm	1460 rpm
		Overload	Motor Thermal Overload Relay	Motor Thermal Overload Relay
		IP Rating	IP55	IP55
COOLING PADS	Material & Size		Chillcel® 9x 575 x 1750 x 90mm	Chillcel® 9x 575 x 1750 x 90mm
WATER SYSTEMS	Reservoir Capacity		50 L	50 L
	Pumps		2 Centrifugal Pumps 18 L/min ea. 230V 50Hz 60W ea.	2 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
		Water Probes	2-pin Conductivity Probe	2-pin Conductivity Probe
		Drain Valve	24 VAC Vertical	24 VAC Vertical
DIMENSIONS	Shipping		2300mm Long x 2300mm Wide x 2275mm High	2300mm Long x 2300mm Wide x 2275mm High
	Operating		2230mm Long x 2240mm Wide x 2135mm High	2230mm Long x 2240mm Wide x 2135mm High
WEIGHT	Shipping		685 kg	730 kg
	Operating inc. water		740 kg	785 kg



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High Speed Performance Summary										
Static Pressure (Pa)		80	120	160	200	240	280	320	360	400
RPXL16000		Airflow (L/s)	17,300	16,360	15,320	14,080	12,770	11,010	7,250	-
		Input Power (kW)	16.9	15.1	13.5	11.8	10.3	8.5	5.5	-
RPXL18000		Airflow (L/s)	-	18,130	17,580	16,970	16,240	15,270	13,870	11,790
		Input Power (kW)	-	19.9	19.5	19.0	18.1	16.7	14.6	12.1
										8,760
										9.5



### CONTROLS

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

