TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

GENERAL

The RPA OR Series units are an evaporative cooler appliance, capable of supplying cooled air and fresh air ventilation. RPA OR units are produced in 4 different capacities to suit a variety of installation requirements.

CABINET

The frame is constructed from aluminium securing the rotor moulded plastic schroll in the required orentation. The casing of the cabinet is made from powdercoated aluminium with a heavy gauge base for structural stability. To assist in lifting of the unit each RPA OR unit is supplied with 4 eye bolt lifting points. Components are effectively treated to ensure corrosion resistance and mechanical fasteners are zinc coated, stainless steel or aluminium. Each RPA OR unit is supplied with a flexible duct connector .

FAN & MOTOR

The standard fan is a forward curved blower constructed from steel. Blower housings are rotor moulded plastic as standard. Fan motors are mounted externally to the blower and connect via a set of pulleys. Refer to below flow graphs for possible flow and static pressure combinations.

PULLEYS

All pulleys are of metal construction with taper lock mounting.

Variations in external pressure drop outside of the standard product range require pulley and belt combinations to be supplied by the customer.

ELECTRICAL CONTROL

All units have an electrical starter box housed inside the unit.

Units are controlled by Wall Switch

Units will require single or 3 phase power depending on required motor size. Electrical circuit breakers must be a minimum of a “ D curve” motor start circuit breaker. Electrical circuit breakers must be sized according to the total load requirements.

CONFIGURATION OPTIONS

1. Cooler Size/Model
2. Discharge Orientation (Top, Side or Down)
3. Ember Screens (ChillCel only)
4. Drain Type (Normal/Auto drain)
5. Roof Stand

COOLING PADS

Units are fitted with Chillcel® fabricated, honeycomb, high efficiency type. All models incorporate plastic louvres (UV stabilised) to enhance the appearance of the pad and to prevent water splash.

WATER SUPPLY AND DRAINAGE

Water consumption rates vary with weather conditions.

Units have a non-corrosive low content water reservoir.

Units use a float valve to shut off incoming supply once required capacity is reached.

Units have a bleed system depending on the hardness of the water. Incorrectly setting the bleed rate will reduce the lifetime of the unit.

An overflow is provided with the unit which will allow unit to be connected to drainage. Auto-drain kits are available to allow for programable drainage (077444).

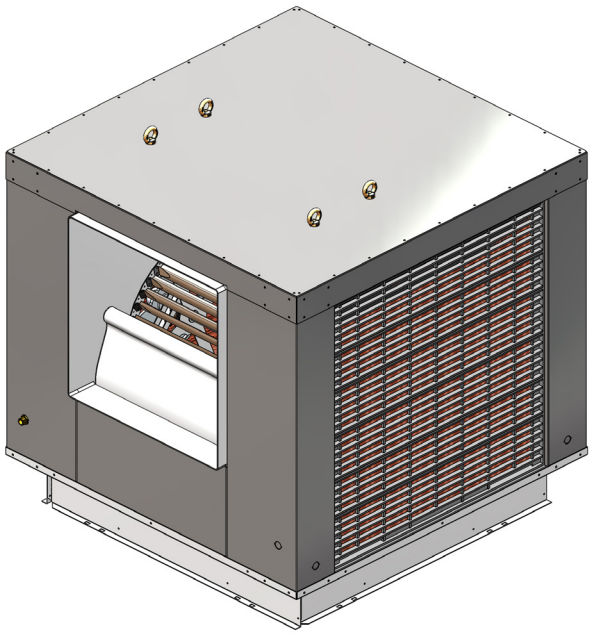
USER CONTROL

Wall Switch

AIR OFF/ON: Provides power to the unit starting fan

SPEED LOW/HIGH: Select fan speed

COOL OFF/ON: choose betweeen ventillation and evaporative cooling.



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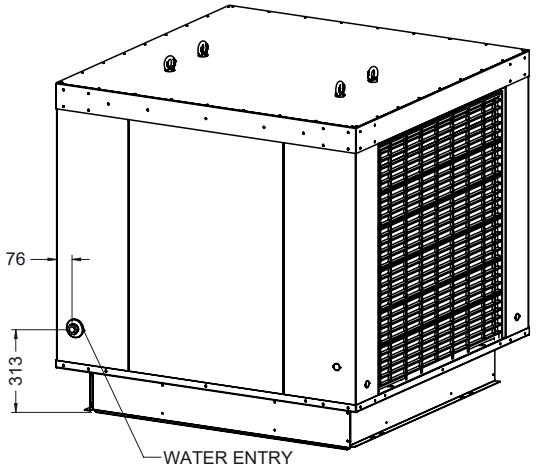
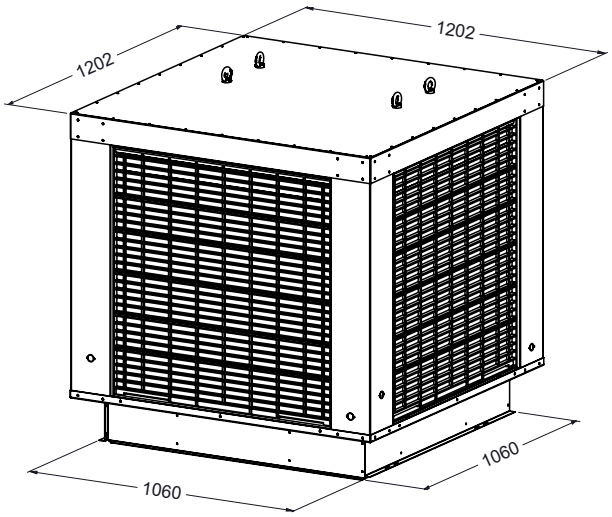
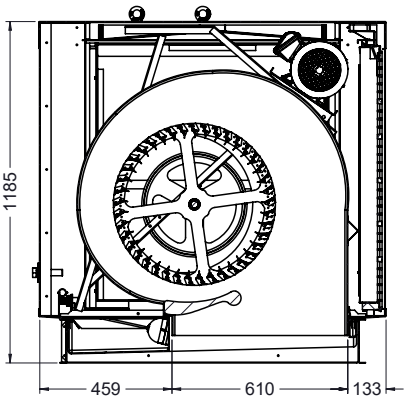
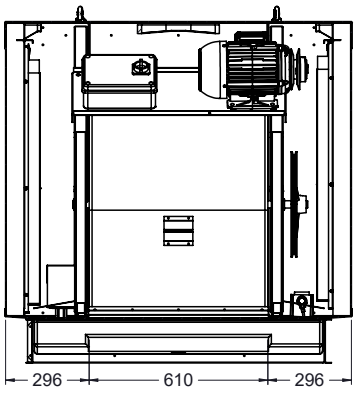
TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

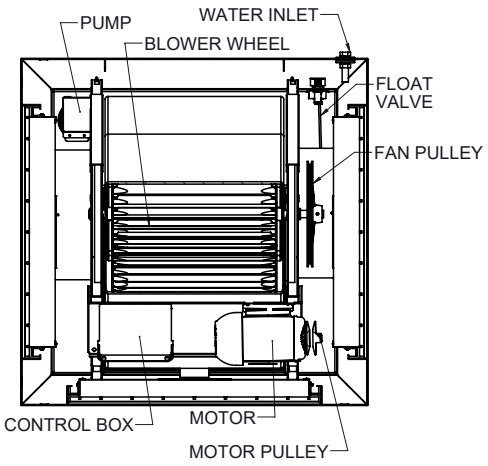
RPA320-450-OR Down Discharge

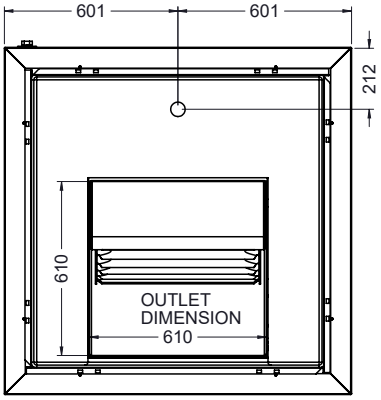








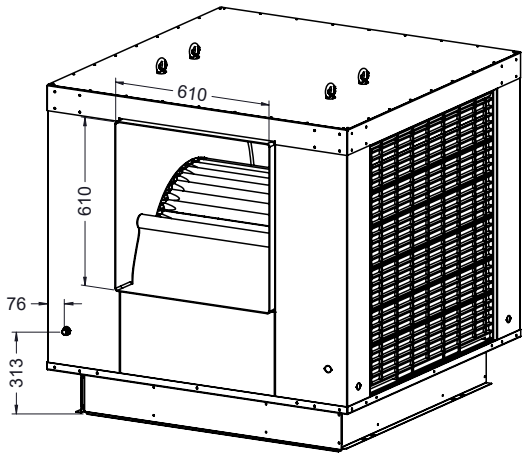


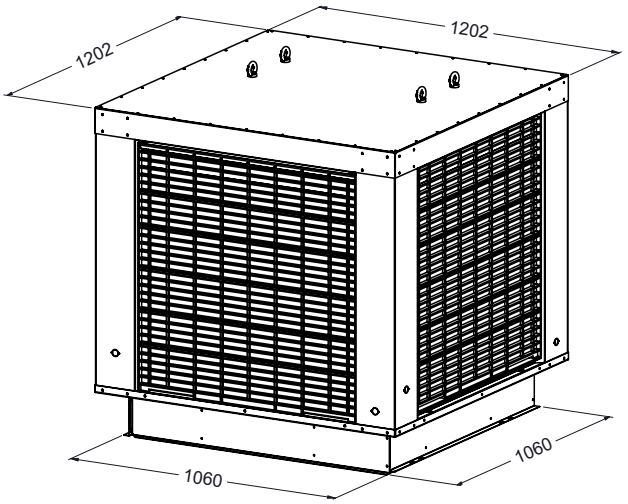


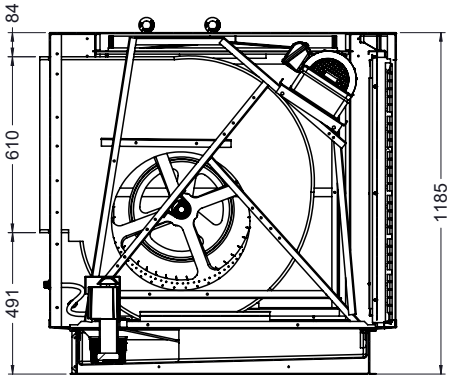
Dimensions are in mm.

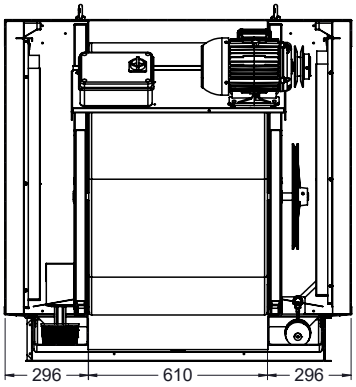
TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

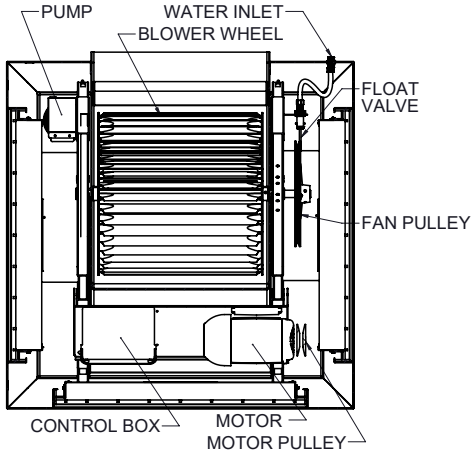
RPA320-450-OR Side Discharge

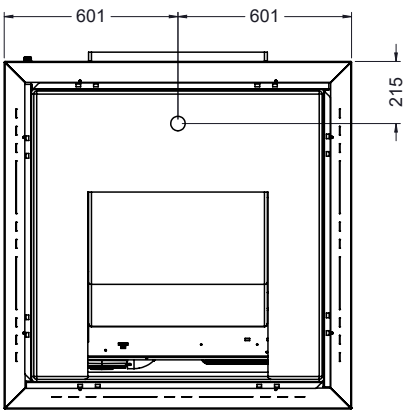








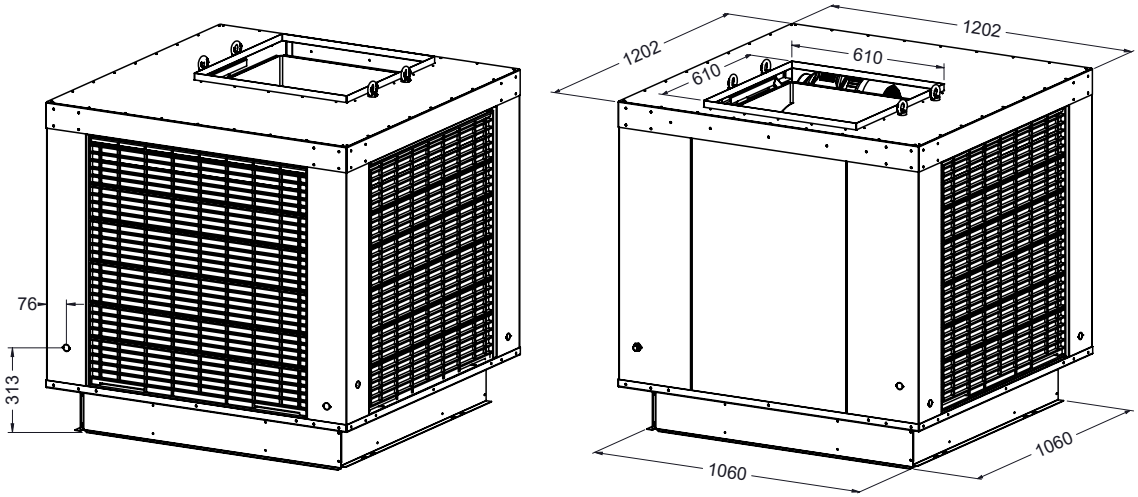


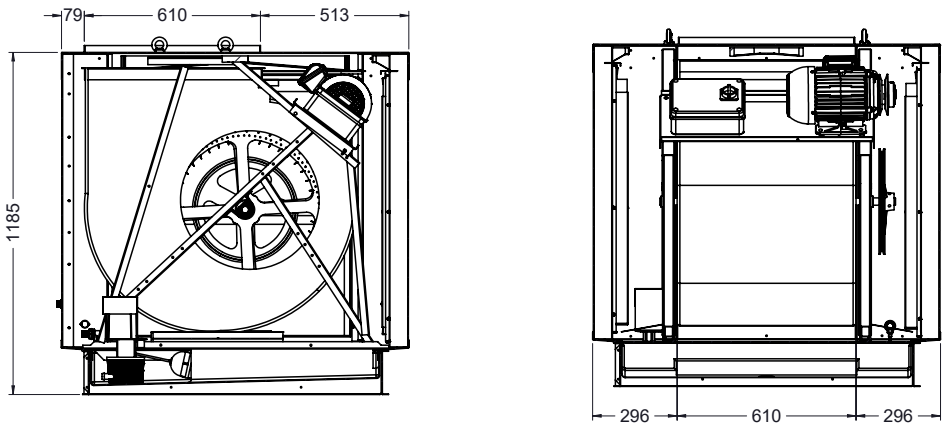


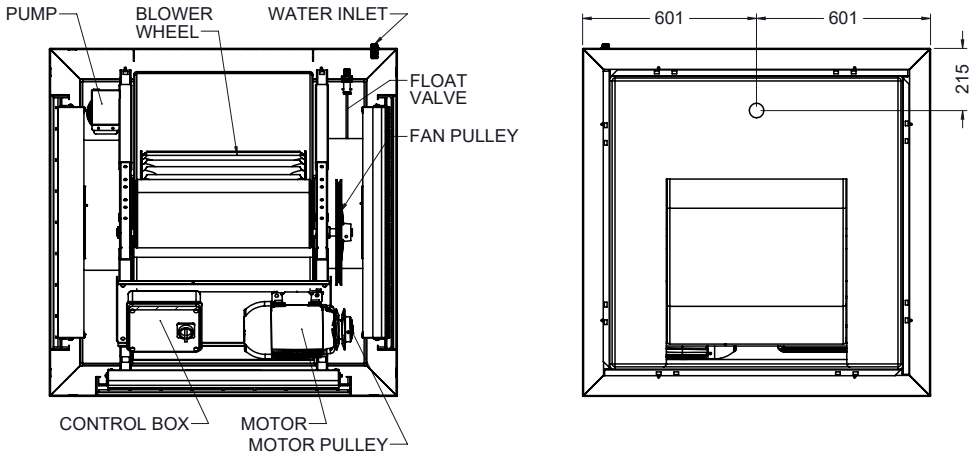
Dimensions are in mm.

TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

RPA320-450-OR Top Discharge



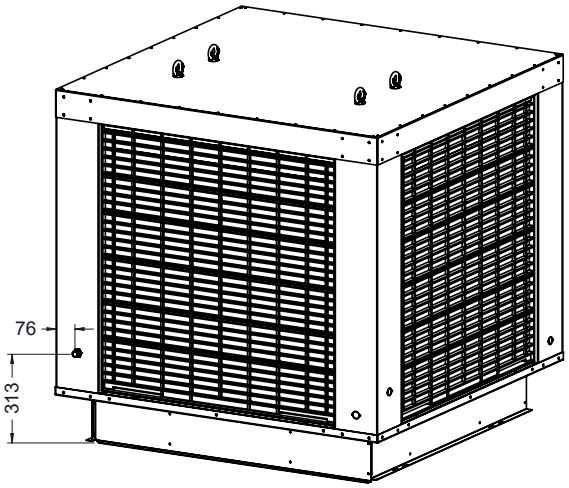


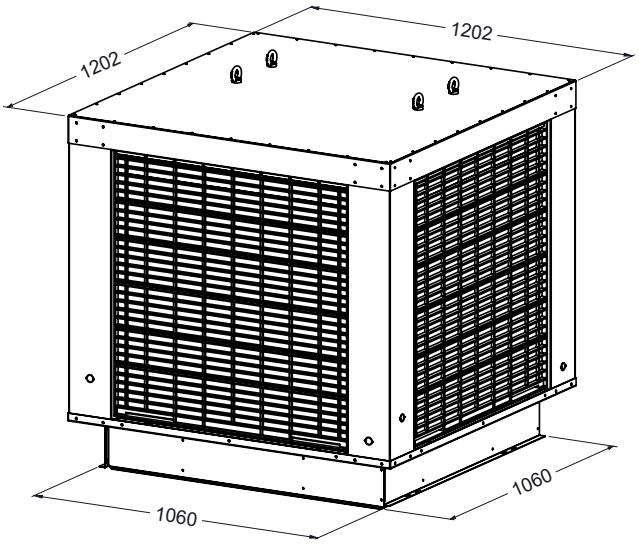


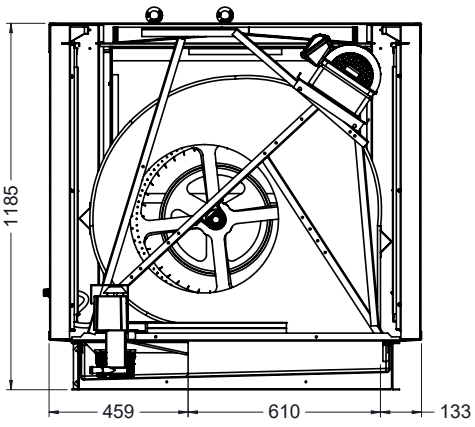
Dimensions are in mm.

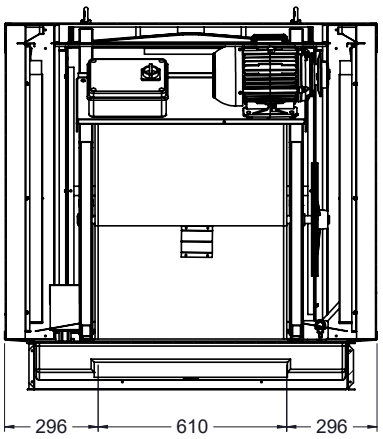
TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

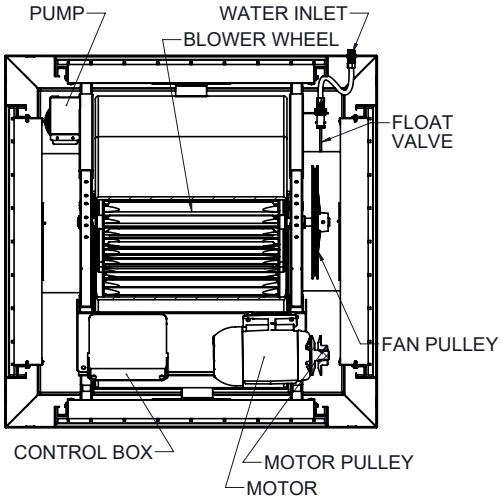
RPA500-OR Down Discharge

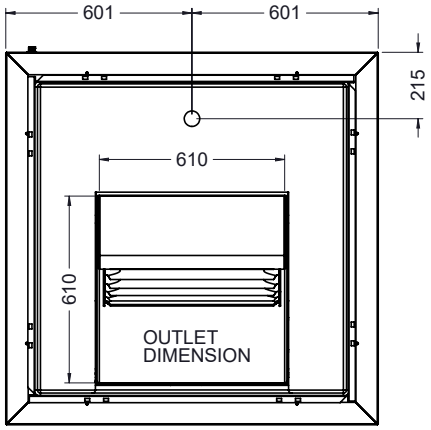












Dimensions are in mm.

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TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

MODEL:			RPA320-OR	RPA400-OR	RPA450-OR	RPA500-OR
COOLING PERFOR-MANCE	Airflow @ 80Pa	(L/s)	2702	3580	4138	4485*
	Max Airflow	(L/s)	3013	3782	4261	4552
	Airflow @ 0Pa**	(L/s)	3180	3940	4730	4840
SERVICES	Electrical Supply	Voltage V/Ph/Hz	240/1/50	415/3/50	415/3/50	415/3/50
		Max Power (kW)	1.7	2.9	3.7	3.7
		Amps (A)	8.1	5.9	7.4	7.4
	Water	Supply	20 L/min @ 100 - 800 kPa	20 L/min @ 100 - 800 kPa	20 L/min @ 100 - 800 kPa	20 L/min @ 100 - 800 kPa
		Max Temp	40 °C	40 °C	40 °C	40 °C
		Inlet	1/2" (15mm) Male BSP	1/2" (15mm) Male BSP	1/2" (15mm) Male BSP	1/2" (15mm) Male BSP
		Drain	1½" (40mm) Male BSP	1½" (40mm) Male BSP	1½" (40mm) Male BSP	1½" (40mm) Male BSP
	Duct Connections	Orientation	Side, Top and Down Discharge	Side, Top and Down Discharge	Side, Top and Down Discharge	Down Discharge
CONTROL-LER	Type	Standard	Wall Switch	Wall Switch	Wall Switch	Wall Switch
FAN	Type		Blower	Blower	Blower	Blower
	Diameter	(mm)	560x560	560x560	560x560	560x560
	Capacity		High	High	High	High
MOTOR	Type		Single Phase	3 Phase	3 Phase	3 Phase
	Speed	RPM	1440	1440	1440	1440
	Output***	(kW)	1.1	2.2	3.0	3.0
	Rated	(A)	7.1	4.9	6.4	6.4
	Rating	IP	IP55	IP55	IP55	IP55
PUMP	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Quantity		1	1	1	1
	Power	(W)	60	60	60	60
	Max Flow Rate	(L/min)	18	18	18	18
	Voltage	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
	Rating		IPX4	IPX4	IPX4	IPX4
COOLING PADS	Size	(mm)	797W x 885H x60/90D (3 Pads)	797W x 885H x60/90D (3 Pads)	797W x 885H x60/90D (3 Pads)	797W x 885H x60/90D (4 Pads)
	Pad Area	(m2)	2.1	2.1	2.1	2.8
DIMEN-SIONS	Shipping	(mm)	1290 Length 1290 Width 1370 Height	1290 Length 1290 Width 1370 Height	1290 Length 1290 Width 1370 Height	1290 Length 1290 Width 1370 Height
	Operating	(mm)	1202 Length 1202 Width 1185 Height	1202 Length 1202 Width 1185 Height	1202 Length 1202 Width 1185 Height	1202 Length 1202 Width 1185 Height
	Service Clearance All Sides	(mm)	1200	1200	1200	1200
WEIGHT	Shipping	(kg)	140	145	150	150
	Operating inc. Water / Acc	(kg)	190	195	200	200

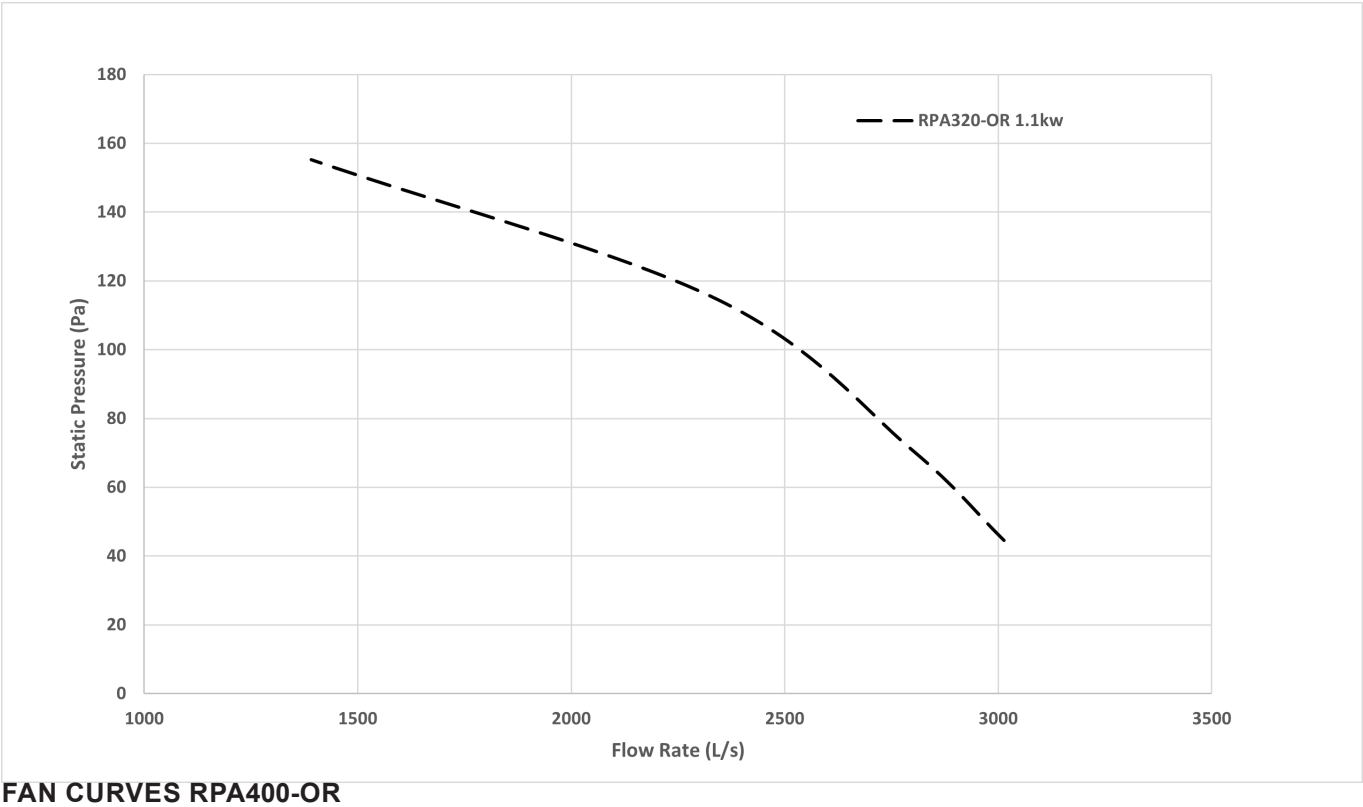
*Airflow at 120Pa

** Aiflow at 0Pa for unit comparison only. Motor amps will be exceeded at 0Pa

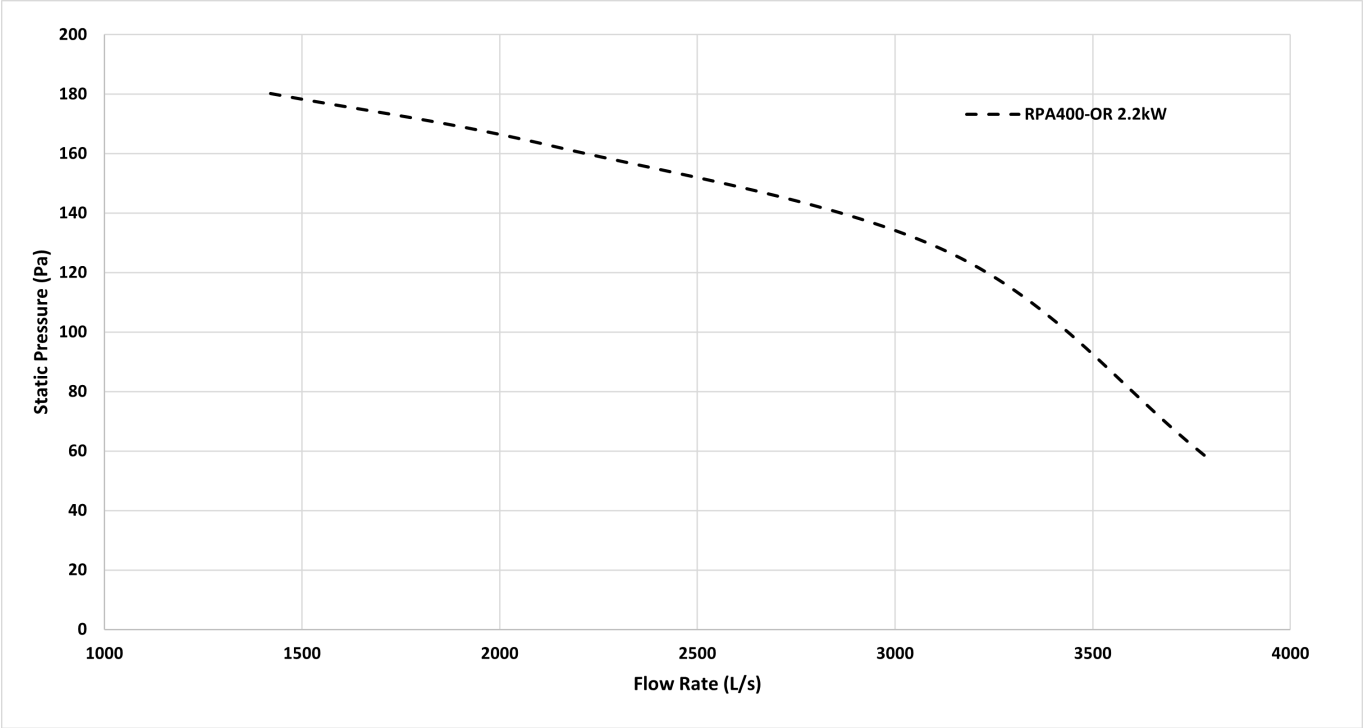
***Motor power may change dependant on required airflow and pressure.

TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

FAN CURVES RPA320-OR

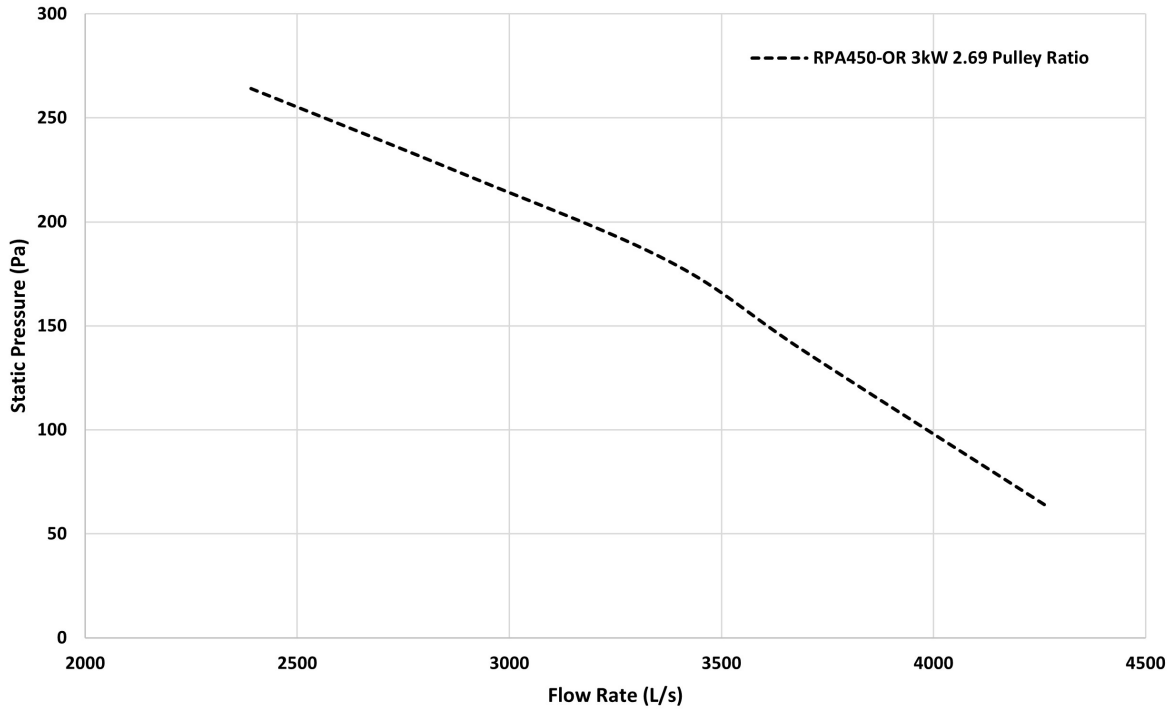


FAN CURVES RPA400-OR



TECHNICAL SPECIFICATIONS - RPA-OR MODELS EVAPORATIVE COOLERS

FAN CURVES RPA450-OR



FAN CURVES RPA500-OR