

Industrial Evaporative Cooling General Specifications

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 are powder coated for extra corrosion protection. Cabinet fasteners are Stainless Steel and Aluminium.

Fan Wheel



The Fan wheel is a double inlet, multi-blade, forward curve, 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. RPC Coolers are fitted with a Plastic Blower Wheel.

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



RPC Models & RPA400 are 240V Single Phase, two speed PSC motor. RPA450 to 900 are 415V 3 Phase TEFC tropic proof induction motor, Aluminium or Cast Iron frame, IP55 enclosures to AS1359. Motor current draw can vary depending on supplier. RPCs are also available in variable speed.

Electrical Control



A Three Phase DOL starter assembly is pre-wired within the unit and incorporates a dual contactor assembly for control of high and low speeds, Current overloads are fitted to both high and low contactors. The enclosure is hose proof to IP55. All 3 phase models incorporate an isolation switch. Single phase is wired directly to mains. The wall control switch supplied incorporates the Pump, Fan and High/Low mechanisms.

Water Connection



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

Filter Pads



Filter pads are Chillcel® with a minimum operating saturation efficiency of 80%. Shredded wood wool fibre is available on some models. All models incorporate Plastic Louvres (UV stabilised) to enhance the appearance of the pad and to prevent water splash.

Special Features

Bleed off adjustment is by an external valve located at the corner pillar. A mains isolator is provided. Flexible Connectors are fitted on all down discharge models and supplied in kit form for Side and Top Discharge Models. A Lifting Lug Kit is also available for all models and can be factory fitted.

Unit Rating

Units 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 are available on request.