R SERIES

ThermalX by Aqua Chiller

R180A1-410-CC

Our ThermalX R Series chillers have stood the test of time in the harshest Australian conditions.

AQUA COOLER

KEY FEATURES

- Built with world-market-leading component brands such as Emerson and Danfoss compressors and Schneider electrics.
- Hydrophilic-coated aluminium condenser fins with an optional upgrade e-coating option for additional corrosion protection.
- Laden with safety features, such as phase failure protection, flow meter alarm protection, high and low pressure protection, included as a standard feature in all R Series chillers.
- Easy to read and use PCB which provides advanced information such as flow rates, pressures and temperatures.
- Multiple evaporator types available including coil-in-tank, shell-and-tube or plate heat exchanger available
- Manually controlled water bypass valve to reduce water flow to suit applications.
- Supports remote start/stop/on/off , remote alarm signal output, and remote run signal.
- Available in both air-cooled and water-cooled configurations and open or closed loop pipework to suit the process needs
- Designed for and tested in Australian conditions

BENEFITS

- Using the advanced PCB, multi-chiller control options are available that allow benefits such as redundancy, control, remote start / stop and performance monitoringInternal buffer tanks ensure that temperature remains consistent under varying loads.
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- Integrated internal process pump
- Customisable - options include removing internal tanks, upgrading pumps, secondary heat exchangers for drinking water applications plus more
- Extensive parameter settings to suit a variety of applications.

SAFETY FEATURES

- Compressor internal protectors respond to over-current and overheating
- High- and Low-Pressure Protection
- Temperature Protection via High and Low Alarm
- Flow Switch Protection
- Phase Sequence or Missing Phase Protection
- Low Water Level Alarm Protection

Quality Assured

All Aqua Cooler chillers are tested throughout the manufacturing process followed by a substantial and comprehensive test upon completion and again before dispatch. Coupled with the world's most trusted component brands, Aqua Cooler's products are designed and built to last in Australian conditions.

SPECIFICATIONS

Model	R180A1-410-CC	
Cooling Capacity	kW	2.8
Input Power	kW	1.9
	Power	1PH/240V/50HZ
Current Draw (A)	Operation	6.9
	Maximum	10.2
Refrigerant	Type	R410A
	Charge (kg)	1.6
	Control Method	Expansion Valve
Compressor	Type	Rotary
	Number in Chiller	1
	Brand	Panasonic
	Power (kW)	1.0
Condensor	Type	Hydrophilic Alumunium fin with low noise rotor fan
	Cooling air flow	2200
Evaporator	Type	Coil in Tank
	Tank Volume (L)	80
	Inlet/outlet Pipe	1"
Water Pump Standard Option Stainless Steel #304 Pump / Pipes	Avail Lift (m)	44
	Flow Rate (L/s)	2 m3/h I 0.56 L/s
	Model	CHLF2-60
Dimensions and Weight	Lenth (mm)	1365
	Width (mm)	640
	Height (mm)	1290
	Weight (Kg)	160

NOTES

1. Nominal cooling capacity is calculated with 7°C chilled-water supply and 35°C inlet cooling air temperature at system flow rate and pressure
2. Working conditions:
   - Recommended temperature range of chilled fluid: 3°C and 25°C. Use of glycol recommended for set points under 3°C.
   - Temperature difference between inlet and outlet chilled fluid between 3°C and 10°C
   - We recommend the use of R134a when ambient temperatures are expected to reach 40°C+
3. Operation current draw (OCD) per phase at design point - Measure under Evaporating Temp: 2°C I Condensing Temp: 50°C I Superheat: 5K I Subcooling: 2K
4. The flow rate is the nominal flow rate at the available lift. The actual flow rate will depend on the load requirement and the pump curve. Upgraded pump available on request.
5. Errors and Ommissions Excepted.

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AQUA CHILLER