

# Warrior Series

AC-WAR-VP-20-TP



The Warrior series from Aqua Chiller offers versatile indoor chillers with capacities ranging from 1.3 kW to 4.5kW. Designed to be compact and space-saving, these units are ideal for applications where every square meter counts. With top-quality components like Tecumseh/Danfoss compressors and Carel controllers, the Warrior series ensures reliable performance in demanding environments.

## Features

- Cooling capacity from 1.3 to 4kW with options up to 8 kW
- European built and designed for Australian conditions.
- Onsite commissioning included (a).
- 3 year warranty included as standard (b).
- Compact, space saving design, suitable for indoor installation with an electrical panel protected by a double enclosure.
- Galvanized steel frame further protected with polyester powder paint.
- Castor wheels to provide portability.
- High efficiency and quiet operation with hermetic reciprocating or scroll compressors.
- Less refrigerant charge by using an efficient brazed plate heat exchanger as the evaporator.
- Equipped with a thermostatic expansion valve.
- Includes a generously sized copper pipe aluminum finned condenser coil for high efficiency.
- Includes fan speed controller.
- Features the Carel  $\mu$ Chiller microprocessor controller with Carel APPLICA NFC technology - connects your mobile phone to the chiller for parameter monitoring and easy changes.
- Optional Modbus capability and remote control panel.
- Thermally insulated stainless steel water tank.
- Internal stainless steel pump with 3 bar of pressure.
- Non corrosive pipe material.
- Flow switch protection.
- High and low pressure protection.
- Thermal overloads on motors.
- Phase Rotation, Fail, and Frequency protection.
- Alarm output contact.
- Remote on/off contact.
- Anti Freezing Alarm to protect evaporator.
- All models are tested under real conditions before shipment.
- Installation and maintenance plans are available.



## Benefits

The Warrior series is packed with features that make it the ultimate choice for smaller HVAC industrial applications. High-efficiency hermetic reciprocating or scroll compressors, combined with an advanced brazed plate heat exchanger, deliver outstanding performance with reduced energy consumption and minimal refrigerant use. The Carel  $\mu$ Chiller microprocessor controller and thermostatic expansion valve ensure your system operates at peak efficiency. Built to last, these units feature a robust galvanised steel frame and comprehensive protection measures, including flow switch protection and high and low pressure safeguards. This series offers more than just cooling — it delivers powerful, dependable solutions that meet the highest standards of performance and durability.

## 3 year warranty

All Aqua Chiller units are tested throughout the manufacturing process followed by a substantial and comprehensive test upon completion. Coupled with the world's most trusted component brands, Aqua Chiller's products are designed and built to last.



## Notes

- (a) Onsite commissioning included in metro areas only. Additional travel fees apply for areas outside of metro regions and will be specified on quotation.
- (b) 3 year warranty valid when unit installed to our specifications verified by Aqua Chiller commissioning visit. 6 month maintenances must be completed and logged on our website by qualified personnel. Annual water treatment and filter changes must occur with proof provided. Aqua Chiller can offer install and maintenance packages to suit.

Your Partner in Cool.

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Phone: 1300 278 226

**AQUA**  
**CHILLER**

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## Specifications

Model	AC-WAR-VP-20-TP	
Cooling Capacity +7C supply +35C ambient	kW	1.7
Compressor Power Input	kW	0.8
Fan Power Input	kW	0.07
Pump Power Input	kW	0.37
Combined Power Input	kW	1.24
Power Supply	V/Ph/Hz	230/1/50
Operating Current	Amp	5
Max Current Draw	Amp	6.9
Locked Rotor Amps	Amp	23
Type of Refrigerant	R134a	
Outdoor Installation	Not Suitable	
Expansion Device	Thermostatic Expansion Valve	
Condenser Type	Copper Pipes, Aluminum Fins	
Fan Type	Axial (Ø25)	
No. of Fans	1	
Fan Motor Power	kW	0.07
Fan Speed Control	Yes	
Condenser Air Flow Rate	m3/h	1250
Compressor Type	Reciprocating	
No. Compressors	1	
Compressor Capacity Control Steps	%	0 or 100%
Number of Refrigerant Circuits	1	
Nominal Compressor Power	HP	0.75
Evaporator Type	Brazed Plate Heat Exchanger	
Evaporator Flow Rate	m3/h	0.4
Tank	Included, non-pressurised	
Tank Material	AISI 304 Stainless Steel	
Tank Volume	L	20
No of Pumps	1	
Pump Type	Centrifugal	
Pump Power Input	kW	0.37
Pump Pressure	bar	3 bar
Flow Protection	Flow switch	
Water Inlet Connection Size	DN	15
Water Outlet Connection Size	DN	15
Type of Controller	Carel uChiller	
HP Control	Auto Reset Switch	
HP Gauge	No	
LP Control	Transducer	
LP Gauge	No	
Dimensions	mm	555 W x 675 D x 800 H
Dry Weight	Kg	110

## Notes

- Nominal cooling capacity is calculated with 7°C chilled-water supply and 35°C inlet cooling air temperature at system flow rate and pressure
- Recommended temperature range of chilled fluid: 3°C and 25°C. Use of glycol recommended for set points under 6°C.
- Temperature difference between inlet and outlet chilled fluid between 4°C and 7°C. Contact us for temperature splits outside of this range
- All figures are at the rating point of 7c supply in 35c ambient.
- We recommend the use of R134a when ambient temperatures are expected to reach 42°C+

## Features

- Flow switch protection.
- High and low pressure protection.
- Thermal overloads on motors.
- Phase Rotation, Fail, and Frequency protection.
- Alarm output contact.
- Remote on/off contact.
- Anti freezing alarm to protect evaporator.
- All models are tested under real conditions before shipment.
- Installation and maintenance plans are available.

## Company details

<b>Registered Company Name:</b>	Aqua Cooler Pty Ltd
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