Sentinel Series

AC-SEN-VMP-1160-TP



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Engineered for outdoor reliability, the Sentinel series combines

insulated stainless steel water tank ensures steady and reliable

feature practical elements such as an internal pump, flow switch

protection, and a fan speed controller, all contributing to enhanced

usability. Each unit undergoes rigorous testing to guarantee optimal

performance right out of the box. With a 3-year warranty the Sentinel series provides peace of mind, making it a solid and dependable

durable construction with industry-leading components, making it the

ideal solution for long-term, efficient operation. The efficient brazed

plate heat exchanger reduces refrigerant charge, while the thermally

cooling. Designed with a focus on ease of maintenance, these chillers

The Sentinel series from Aqua Chiller is a reliable range of outdoor chillers, designed to handle capacities from 6 kW to 110 kW. Tailored for Australian conditions and built with European precision, these units incorporate top-tier components like Danfoss/Copeland compressors and Carel controllers to ensure dependable and consistent cooling performance.

Benefits

Notes

Features

- Range 6kW to 110kW.
- 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 or outdoor installation with an electrical panel protected by a double enclosure.
- Galvanized steel frame further protected with polyester powder paint.
- Heavy duty adjustable feet to provide stability.
- High efficiency and quiet operation with 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 µChiller 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 4 bar of pressure.
- Convenient pressure gauge included on the case for water pressure, high and low refrigerant pressures.
- Easy to service design.
- 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.

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.

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 personel. Annual water treatment and filter changes

 (a) Onsite commissioning included in metro areas only. Additional travel fees apply for areas outside of metro regions and will be

maintenances must be completed and logged on our website by qualified personel. Annual water treatment and filter changes must occur with proof provided. Aqua Chiller can offer install and maintenance packages to suit.

Online:www.aquacooler.comEmail:care@aquacooler.comPhone:1300 278 226

choice for outdoor cooling needs.



Your Partner in Cool.

Sentinel Series



Specifications

Model		AC-SEN-VMP-1160-TP
Cooling Capacity +7C supply +35C ambient	kW	109.4
Compressor Power Input	kW	30
Fan Power Input	kW	1.2
Pump Power Input	kW	4
Combined Power Input	kW	36.4
Power Supply	V/Ph/Hz	415/3/50
Operating Current	Amp	54.7
Max Current Draw	Amp	106
Locked Rotor Amps	Amp	389
Type of Refrigerant		R410a
Outdoor Installation		Suitable
Expansion Device		Thermostatic Expansion Valve
Condenser Type		Copper Pipes, Aluminum Fins
Fan Type		Axial (Ø80)
No. of Fans		2
Fan Motor Power	kW	2x1.2
Fan Speed Control		Yes
Condenser Air Flow Rate	m3/h	2x22500
Compressor Type		Scroll
No. Compressors		1
Compressor Capacity Control Steps	%	0 or 100%
Number of Refrigerant Circuits		1
Nominal Compressor Power	HP	40
Evaporator Type		Brazed Plate Heat Exchanger
Evaporator Flow Rate	m3/h	18.8
Tank		Included, non-pressurised
Tank Material		AISI 304 Stainless Steel
Tank Volume	L	-
No of Pumps		1
Ритр Туре		Centrifugal
Pump Power Input	kW	4
Pump Pressure	bar	4 bar
Flow Protection		Flow-switch
Water Inlet Connection Size	DN	65
Water Outlet Connection Size	DN	65
Type of Controller		Carel uChiller
HP Control		Semi Auto Reset Switch
HP Gauge		Yes
LP Control		Transducer
LP Gauge		Yes
Dimensions	mm	1130 W x 3900 D x 2500 H
Dry Weight	Kg	1520

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

Registered Company Name:	Aqua Cooler Pty Ltd
ABN Number:	88 151 215 351
Address	38-44 Relentless Court PARK RIDGE QLD 4125
Postal Address:	PO Box 3225 LOGANHOLME QLD 4128
Telephone:	1300 278 226
Website:	www.aquachiller.com
Email:	care@aquachiller.com

