Sentinel Series

AC-SEN-VMP-700-TP



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.

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.



Benefits

Engineered for outdoor reliability, the Sentinel series combines 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 insulated stainless steel water tank ensures steady and reliable cooling. Designed with a focus on ease of maintenance, these chillers 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 choice for outdoor cooling needs.

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 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.com

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Sentinel Series

AC-SEN-VMP-700-TP



Specifications

| Cooling Capacity +7C supply +35C ambient kW 65 Compressor Power Input kW 19.2 Fan Power Input kW 1.2 Pump Power Input kW 2.2 Combined Power Input kW 2.3.8 Power Supply V/Ph/Hz 415/3/50 Operating Current Amp 34.3 Max Current Draw Amp 62 Locked Rotor Amps Amp 260 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 2x15600 Compressor Type Scroll No. Compressor Power HP 25 Evaporator Type Brazed Plate Heat Exchanger Evaporator Type Brazed Plate Heat Exchanger | Model | | AC-SEN-VMP-700-TP |
|---|-----------------------------------|---------|------------------------------|
| Fan Power Input | | kW | 65 |
| Pump Power Input kW 2.2 Combined Power Input kW 23.8 Power Supply V/Ph/Hz 415/3/50 Operating Current Amp 34.3 Max Current Draw Amp 62 Locked Rotor Amps Amp 260 Type of Refrigerant R410a Outdoor Installation Suitable Expansion Device Thermostatic Expansion Valve Condenser Type Axial (Ø80) No. of Fans 2 Fan Type Axial (Ø80) No. of Fans 2 Ean Motor Power kW 2x1.2 Fan Speed Control Yes Condenser Air Flow Rate m3/h 2x15600 Compressor Type Scroll No. Compressor Expect Control Steps % 0 or 100% Number of Refrigerant Circuits 1 1 Compressor Capacity Control Steps % 0 or 100% Number of Refrigerant Circuits 1 1 Nominal Compressor Power HP 25 | Compressor Power Input | kW | 19.2 |
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| Operating Current Amp 34.3 Max Current Draw Amp 62 Locked Rotor Amps Amp 260 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 2x15600 Compressor Type Scroll No. Compressors 1 Compressor Capacity Control Steps % 0 or 100% Number of Refrigerant Circuits 1 Number of Refrigeran | Combined Power Input | kW | 23.8 |
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| LP Control Transducer LP Gauge Yes Dimensions mm 1080 W x 2450 D x 2200 H | | | Semi Auto Reset Switch |
| LP Gauge Yes Dimensions mm 1080 W x 2450 D x 2200 H | | | |
| Dimensions mm 1080 W x 2450 D x 2200 H | LP Control | | Transducer |
| | LP Gauge | | Yes |
| Dry Weight Kg 885 | Dimensions | mm | 1080 W x 2450 D x 2200 H |
| | Dry Weight | Kg | 885 |

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 | |
|--------------------------|---|--|
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