Obsidian Series

AC-OBS-VSCA-H-590-TP



The Obsidian series from Aqua Chiller is a high ambient range of outdoor chillers, with capacities from 11.9 kW to 156 kW, purpose-built to withstand Australia's harshest climates. Designed for durability and reliability, these units utilise R134a refrigerant and oversized, coated condensers to ensure consistent performance in extreme conditions. With rugged construction, dust-resistant housing, and a high ambient cooling rating, the Obsidian range is the dependable solution for critical cooling in the toughest outdoor environments.

Features

- Capacity range from 11.9 kW to 156 kW, with larger sizes available on request
- High ambient design, rated to perform at 7°C chilled water supply with 45°C ambient
- Advanced outdoor chiller series, built for demanding Australian conditions
- European-built with high-spec componentry
- Onsite commissioning included (a)
- 3-year warranty included as standard (b)
- Galvanised steel frame with durable polyester powder coating
- Heavy-duty adjustable feet for stability and levelling
- Oversized, corrosion-protected condenser coil, copper pipe with aluminium fins, Blygold or equivalent coating
- Scroll compressor technology for efficient and quiet operation
- High-efficiency brazed plate evaporator to reduce refrigerant charge
- Equipped with a thermostatic expansion valve for precise refrigerant flow
- Internal stainless steel circulation pump, 4 bar pressure
- Sealed and pressurised stainless steel water tank, thermally insulated, with auto air bleeders
- Bypass loop with gate valve, adjustable from outside the unit
- Non-corrosive piping materials for long service life
- Carel µChiller controller with APPLICA NFC mobile connectivity
- Optional Modbus capability and remote control panel
- Built-in fan speed control for optimised performance in variable conditions
- Flow switch, high and low pressure protection
- Thermal overload protection on motors
- Phase sequence, fail, and frequency protection
- Anti-freeze alarm to protect evaporator
- Remote on/off contact and alarm output contact
- Voltage separation between control and component circuits for safety
- Convenient pressure gauges for water pressure and refrigerant pressures
- Dustproof housing on electrical boxes and internal components for extended component life
- Tested under real-world load conditions prior to shipment
- Installation and maintenance plans available for long-term support

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.





Benefits

The Obsidian series delivers exceptional resilience through high-specification components and thoughtful engineering. Each unit features corrosion-protected, oversized condensers, a sealed and pressurised buffer tank with automatic air bleeders, and a factory-installed bypass circuit for hydraulic flexibility. The dust-proof electrical housing and voltage-separated control system enhance safety and longevity in dusty or remote environments. Designed for simplicity and performance, the Obsidian range includes an automatic make-up water system to maintain operational continuity. Every unit undergoes comprehensive factory testing and is backed by a 3-year warranty, making the Obsidian series the go-to choice for mission-critical cooling in demanding ambient conditions.

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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Obsidian Series

AC-OBS-VSCA-H-590-TP



Specifications

Cooling Capacity +7C supply +45C ambient kW 19 Fan Power Input kW 19 Fan Power Input kW 2.2 Pump Power Input kW 2.2 Combined Power Input kW 2.3.1 Power Supply V/Ph/Hz 415/3/50 Compressor Operating Current Amp 2 x 18.7 Compressor Max Current Draw Amp 2 x 35 Compressor Locked Rotor Amps Amp 2 x 175 Type of Refrigerant R134a Outdoor Installation Suitable Expansion Device Thermostatic Expansion Valve Corresized Condenser with Corrosion Proof Coating Fan Type Axial (080) Axial (080) No. of Fans 2 2 Fan Motor Power kW 2 x 1.1 2 Fan Motor Power kW 2 x 1.1 2 Fan Speed Control Staged, Inverter Option 2 2 Compressor Type Scroll No. Compressor Type Scroll No. Compressor Type MB 2 x 15 2 <th>Model</th> <th></th> <th>AC-OBS-VSCA-H-590-TP</th>	Model		AC-OBS-VSCA-H-590-TP
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Pump Type Centrifugal Pump Power Input kW 2.2 Pump Pressure bar 4 bars Flow Protection Flow Switch Water Inlet Connection Size DN 50 Water Outlet Connection Size DN 50 Type of Controller Carel μChiller HP Control Semi-Auto Reset Switch HP Gauge Yes LP Control Transducer LP Gauge Yes Dimensions (W x L x H) mm 1080 x 2450 x 2200	Tank Volume	L	250
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LP Gauge Yes Dimensions (W x L x H) mm 1080 x 2450 x 2200	HP Gauge		Yes
Dimensions (W x L x H) mm 1080 x 2450 x 2200	LP Control		Transducer
	LP Gauge		Yes
Dry Weight Kg 900	Dimensions (W x L x H)	mm	1080 x 2450 x 2200
	Dry Weight	Kg	900

Notes

- Nominal cooling capacity is calculated with 7°C chilled-water supply and 45°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 45c 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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