

Zeus Series

AC-ZEU-VSA-190



The Zeus series from Aqua Chiller offers robust screw chillers designed specifically for the demanding Australian climate, with capacities ranging from 155 kW to 322 kW. Engineered for reliability and efficiency, the Zeus chillers are the ideal solution for large-scale industrial applications that require powerful and consistent cooling.

Features

- Compressor suction and discharge valves.
- Compressor crankcase heater.
- Oil level switch.
- INT 69 RCY motor protection module.
- Compressor motor protector switch.
- Part-winding start.
- Electronic expansion valve.
- Suction and discharge pressure transducers.
- Carel pCO5 controller.
- Anti vibration dampers.
- Flow-switch.
- Main interlock switch.
- Alarm output relay.
- Carel pCOxcontrol card.
- Phase monitoring and rotation detection relay.
- Back-up battery for EEV.
- Shell and tube evaporators.



Benefits

Built for the toughest environments, the Zeus series incorporates advanced features like compressor motor protection, electronic expansion valves, and shell-and-tube evaporators to ensure optimal performance under all conditions. These chillers also include compressor suction and discharge valves, an INT 69 RCY motor protection module, and a pCO5 advanced Carel controller for dependable cooling management. To enhance durability and longevity, the Zeus series is equipped with additional safeguards such as phase monitoring, rotation detection, and anti-vibration dampers. These features make the Zeus series the ultimate choice for critical industrial cooling needs, delivering unmatched reliability and performance for large-scale applications.

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.

Your Partner in Cool.

Online: www.aquacooler.com

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Specifications

Model	AC-ZEU-VSA-190	
Cooling Capacity +7C supply +35C ambient	kW	175.8
Compressor Power Input	kW	52
Refrigerant	R134a	
Outdoor Installation	Suitable	
Expansion Device	Electronic Expansion Valve	
Operating Current	Amp	87
Max Current Draw	Amp	145
Locked Rotor Amps	Amp	373
Condenser Type	Copper Pipes, Aluminum Fins	
Number of Condensers	2	
Fan Type	Axial (Ø80)	
Fan quantity	4	
Fan power input	4x1.2	
Fan air flow	kW	4x22500
Fan Speed Control	m3/h	Yes
Compressor Type	Semi-hermetic Screw	
No. Compressors	1	
Compressor Capacity Control	0%, then stepless from 50% to 100%	
Number of refrigerant circuits	1	
Evaporator type	Shell & tube	
Evaporator flow rate	m3/h	30.2
Tank volume	Option	
Number of pumps	Option	
Pump Pressure	Option	
Type of flow protection	Flow switch	
Water Inlet Connection Size	DN	125
Water Outlet Connection Size	DN	125
Type of controller	Carel pCO5 Series	
Modbus	Option	
Supervisory connection and web interface card	Option	
HP Control	Pressure Switch and Transducer	
LP Control	Transducer	
Dimensions	mm	1300 W x 5000 D x 2550 H
Dry Weight	Kg	2350

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

- Compressor internal protectors respond to over-current and overheating.
- High and low pressure protection.
- Temperature protection via high and low alarm.
- Flow switch protection.
- Fan speed controller.
- Receiver, filter dryer and sight glass on refrigerant circuit.
- Integrated insulated water buffer tank and pump.

Company details

Registered Company Name:	Aqua Cooler Pty Ltd
ABN Number:	88 151 215 351
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