

Industrial Chillers

Aqua Chiller's Industrial Cooling Solutions



Your Partner In Cool.





About Us

Formed in 1994 by the amalgamation of three companies specialising in chilled water technology, Aqua Cooler has a proud heritage dating back to 1946 with the manufacture of packaged water chiller units. With over 50 years experience in the industry, no other Australian brand can offer the same level of attention to detail and quality.

Today, the company offers a wide range of industrial process chilling products across multiple ranges, providing a solution from small indoor scientific chillers in our gladiator range through to large roof top packaged units containing screw compressors and redundancy systems for mission critical process cooling.

Aqua Cooler offers a host of products and solutions to the market, in addition to a resource-packed aftermarket service. With over 50 years of experience in refrigeration and a deep understanding of our customers' process cooling needs, we provide an unparalleled level of service. Our products are available nationwide, ensuring reliable solutions wherever they're needed.

Your Partner In Cool.

AQUA
CHILLER

AQUA
COOLER

Aqua Cooler Capability Statement

Aqua Cooler is an Australian owned company, designing manufacturing and supporting HVAC industrial water products across Australia and New Zealand. Aqua Cooler Headquarters are in Brisbane, Queensland, along with warehousing and distribution arrangements in Perth, Western Australia and Auckland, New Zealand.

Our product range includes a variety of industrial process chilling products in several ranges, marketed under our Aqua Chiller sub brand. We provide solutions from small, indoor scientific chillers through to large rooftop packaged units containing dual refrigeration and water circuit redundancy used for mission critical process cooling.

Aqua Chiller products can be found across a broad spectrum of industries, including medical imaging, healthcare, plastic manufacturing, mining and mineral production, pharmaceuticals, farming, laser and waterjet cutting, data centres, food processing, and virtually any process requiring water cooling.

With over 50 years of experience in refrigeration, we have a deep understanding of our customers' process cooling needs. Our extensive product range and tailored solutions are supported by a robust aftermarket service, and our distribution networks span across Australia and New Zealand, ensuring reliable access and support.

Our History

Aqua Cooler Pty Ltd is a proud Australian family-owned company with a history dating back to 1946 when we operated as a contractor in the refrigeration sector and later as a manufacturer of packaged water chiller units. In 1979 Sam Hort (Aust.) Pty Ltd was acquired, which was a company who had been producing drinking water fountains since 1953. In the late 1980s, with the rapidly growing spring water market, we commenced production of bottled water coolers and sold mainly to rental companies who placed coolers in homes and offices. Today, Aqua Cooler is a trusted supplier of water cooling solutions across Australia, offering high-quality products and services that meet the evolving needs of homes, businesses, and industries.

Our Ethos

Here at Aqua Cooler, we are a customer-first organisation, putting customer satisfaction at the forefront of how we conduct business. *We aim to improve life through water.* We believe in never being difficult to deal with and being there for our customers when they need us the most.

We are an innovative company with vast experience in the refrigeration industry, and our products are at the forefront of technological innovations. Aqua Cooler only sources components from the industry's leading suppliers to ensure that all our products are manufactured to the highest standards.

The key to our success lies in our ability to provide expert advice to our clients, fast response to sales, short lead times and quality products.

Internal Systems & Policies

- NetSuite ERP
- Audited QMS (ISO:9001)

Aqua Cooler has an established framework for developing business performance objectives and targets to ensure sustainability and growth. These objectives and targets are established and continually evaluated through

- Leadership Meetings
- Sales Meeting
- Supplier Evaluations
- Customer Feedback

Aqua Cooler's Leadership team also provide effective oversight on the performance of the Quality Management System and are responsible for establishing quality and business goals.

- To achieve the business goals, Aqua Cooler is committed to comply to all legislative, statutory, and relevant standard requirements.
- Promote a culture of innovation and participation amongst our employees for improving.
- Continually invest and dynamically enhance the skills and competencies of our personnel.
- Regularly appraise partners/ supplier's performance.
- Continually assess business risks and opportunities.

Professional Memberships & Licenses

- EESS Registered Responsible Supplier Number: E5261
- The Association of Hydraulic Services Consultants Australia – Affiliate Member QLD Branch
- MPAQ Corporate Associate
- Watermark License Holder WMK26317
- Refrigerant Reclaim Australian Product Stewardship Scheme - Member
- Australian Government Refrigeration Import License EQPL60752302

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

Installation, Maintenance, Service.

Why Choose Aqua Chiller Service

Booking your installation, preventative maintenances and aftermarket service requests through Aqua Chiller provides you access to the highest level of technical support, advice and workmanship in the industry. With over 50 years of experience in refrigeration and a deep understanding of our customers' process cooling needs, we deliver an unparalleled level of range, service and advice.

You can rely on our technicians' extensive knowledge and experience, resulting in faster servicing and repair times, all delivered to the highest standards of quality. This, coupled with Aqua Chiller's range of in-stock spare parts unique to our chillers, allows for quick turnarounds, minimising your downtime. Expert installation, servicing, and support further ensure the reliability and efficiency of your cooling systems.

Installation

We offer installation of our extensive range into any environment, big, small, tight, wide, local and remote. Anything is possible. We understand a long-life cycle of your capital equipment purchase begins at the point of installation. We pride ourselves on our quality of work and our technician's attention to detail. Our installation service includes a four-step process.

- Analysing your businesses existing process equipment and understanding your refrigeration needs now and into the future.
- Identifying the best refrigeration equipment necessary to meet your needs and budget
- Project managing the installation project from pre-planning through to completion.
- Creation of a post installation preventative maintenance program and service contract to ensure ongoing service and support.

Preventative Maintenance

Having a comprehensive preventative maintenance plan is essential in protecting your investment to maximise the lifecycle of your investment.

Having your equipment serviced by our factory-trained professionals at regular intervals has been proven to decrease breakdown occurrences. Any machinery that has moving parts, service at regular intervals is critical to ensure your chiller runs smoothly and efficiently. We can tailor preventive maintenance programs to suit your needs and budget.

Repairs / Breakdowns

Our team is available to respond to critical breakdowns. Our service vehicles carry a wide range of equipment and refrigerant gas to carry out repairs and get your system back up online fast.

Professional, prompt and reliable commercial service for industrial chiller processes and commercial refrigeration.

Our mission is to provide exceptional aftermarket service, installation services and maintenance programs to our customers to protect and ensure the best possible operation of their capital equipment investment.

Our expert service technicians support a wide range of industries that depend on industrial chilled water. We manage installations of all sizes, ensuring smooth project execution, while also developing tailored preventative maintenance programs to keep your systems running efficiently.

Continuous training and development keep our technicians at the forefront of the latest technologies, allowing us to maintain the highest industry standards.





Speed of Response

We pride ourselves on delivering industry benchmark levels of response times to customer enquiries and support request. Simply put, our responses to customers are, without exception, professional, knowledgeable, and most importantly, delivered in a timely manner.



Accessibility

Get access to support around the clock. Log service call requests via phone, e-mail or online. With comprehensive service level agreements you have access to emergency support 24/7.



Technician Vetting

As well as our inhouse technicians, Aqua Chiller has established a network of high quality service subcontractors extending throughout Australia.



Warranty

We offer a market leading 3 year warranty (excluding gladiator range) and we stand behind our quality. We dont talk the talk we walk the walk.



Flexible Support Options

Enjoy the freedom of choosing the most suitable level and term of your service contract. Depending on the product and your location, you can choose from various level and term extension options.



Factory-Supported Technicians

Aqua Chiller provides service technicians with all the service documents and training they require to effectively and efficiently service and repair our equipment.

Industries We Service

- Medical applications.
- Large pharmaceutical companies.
- Distilleries, breweries and wineries.
- Laser applications.
- Manufacturing.
- Dentist and Dental.
- Food production facilities.
- Industrial plating, die-casting and anodising services.
- Snap cooling and freezing.
- Data centre in row cooling and CRAC units.

Chiller Comparison Table

Range Name:	 Warrior™	 Sentinel™	 Optimus™
Best For:	Smaller, compact, indoor applications	Base level chilling of stable heat loads	Advanced level of chiller utilising two compressors for part load efficiency
Cooling Capacity Range	1.3kW to 4kW as standard Options up to 8kW	6kW to 110kW as standard	17kW to 211kW as standard Options up to 426kW
Warranty Term (b)	3 years	3 years	3 years
Commissioning Included (a)	Yes	Yes	Yes
Install Location	Indoor Only	Indoor/Outdoor	Indoor/Outdoor
Choice of Refrigerant	R134a	R410a	R410a
Optional Blygold Condenser Coating	✓	✓	✓
Evaporator Options	Brazed Plate Pack HX	Brazed Plate Pack HX	Brazed Plate Pack HX
Controller	Carel µChiller	Carel µChiller	Carel µChiller
Internal Buffer Tank	✓	✓	✓
Compressor Brand and Type	Tecumseh/Danfoss Reciprocating or Scroll	Copeland/Danfoss Scroll	Copeland/Danfoss Scroll
Capacity Control Steps	0 or 100%	0 or 100%	0, 50%, 100%
Expansion Device	Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve
Electrical Components	Eaton	Eaton	Eaton
Pump Included	✓	✓	✓
BMS Connectivity	Option	Option	Option
Web Interface Card	x	x	x
Fan Speed Controller	Yes	Yes	Yes
Closed Loop Option	✓	✓	✓
Flow Protection	Switch	Switch	Switch
Pressure Sensors	Semi Auto Reset Switch / Transducer	Semi Auto Reset Switch / Transducer	Semi Auto Reset Switch / Transducer
Phase Fail Protection	✓	✓	✓
Data Logging	Alarms Only	Alarms Only	Alarms Only
Mounting Options	Castors (Feet optional)	Adjustable Feet	Adjustable Feet
Redundancy configurations available	x	x	x

At Aqua Chiller we understand that every project has unique cooling requirements. That's why we offer a diverse range of industrial chillers, - each series designed with specific features to meet varying demands. Whether you need compact indoor chillers, high-performance outdoor units, or robust solutions for large-scale applications, our range has you covered. Additionally, we provide customisation options to tailor any chiller to your exact specifications, ensuring optimal performance for your specific project needs. Use the table below to compare key features across our chiller ranges and find the perfect solution for your application.

 Apex™	 Zeus™	 GLADIATOR
Premium chiller, matches capacity to heat load automatically for maximum efficiency	Utilises screw compressors for large cooling capacity requirements	Simple, yet effective range of reliable value based chillers
20kW to 100kW as standard Larger options available	155kW to 320kW as standard Larger options available	1kW to 200kW as standard
3 years	3 years	1 year
Yes	Yes	Option
Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
R410a	R134a	R134a
✓	✓	✓
Brazed Plate Pack HX	Shell and Tube HX	Coil in Tank, Plate Pack
Carel pCO5	Carel pCO5	Basic PCB
✓	Option	✓
Danfoss Variable Speed Scroll	Bitzer/Frescold Twin Screw	Panasonic/Emerson/Danfoss Reciprocating or Scroll
0%, then stepless from 25% to 100%	0%, then stepless from 50% to 100%	0/50/100% (Model Dependant)
Electronic Expansion Valve	Electronic Expansion Valve	Capillary/Thermostatic Expansion Valve
Eaton	Eaton	Schneider
✓	Option	✓
Option	Option	Option
Option	Option	x
EC Fans	HP Control	HP Control
✓	Standard	✓
Switch	Switch	Switch
Semi Auto Reset Switch / Transducer	Semi Auto Reset Switch / Transducer	Manual Switch
✓	✓	✓
Alarms Only, Optional pCO Web Card Upgrade	Alarms Only, Optional pCO Web Card Upgrade	Alarms Only
Adjustable Feet	Adjustable Feet	Castors, Skid
Option	Option	x

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.

Industrial Chillers

Electrical

Every component in our chillers have been selected for **reliability** and **longevity**. Electrical components including breakers and relays are sourced from reputable suppliers such as Schneider and Eaton. Our controllers are easy to use with “set and forget” reliability. Carel μ Chiller and pCO5 ranges features on most of our range.

Compressors

Our chiller's compressors bring you long lasting **reliability** and **durability** with exceptionally high standards of quality. Only the best of the best makes the cut, such as Emerson and Danfoss. Our Apex series also uses the latest Danfoss digital scroll technology.

Evaporators

Our chillers are equipped as standard with an **efficient** plate-type exchanger from brands such as SWEP, with the shell and tube configuration available as an alternative. The Gladiator range also offers a coil-in-tank design.



Optional Features



Glycol Compatibility



Remote Condenser



External Pump
And Tank



Pump Upgrades



Remote Control



Redundant Pump



Redundant
Refrigeration Circuit



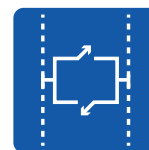
Stainless cabinets



Salt Water
Compatible



EC Fans



Compressor Soft
Starters



High Ambient
Models



Enclosure

The **stylish** and **practical** structural enclosure is robustly constructed with a rigid frame, powder coated galvanised panels and heavy-duty castors, feet or skid channels. Our chillers are designed for indoor or outdoor installation, range dependant.

Condensers

Aqua Chiller uses a custom-designed and manufactured condensers in our chillers. Generously sized copper pipe aluminum finned condenser coil for high efficiency and an option of blygold coating exists for extreme environments.

Pumps

A range of pump options are available for our chiller range. All of which are sourced from highly reputable and **market leading** manufacturers. Closed loop options are available to suit external pumps or tanks.

Internal Tank

Our chillers as standard are equipped with an integrated internal buffer tank to cover peak loads or in situations where there is a surge in demand. This can be removed if required.

Quality Assured



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.



Warrior™



Range from 1.3 to 4.5kW

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.

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 μ 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.

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 μ 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.

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

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- (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.

Specifications: 1.3-4 kW

Aqua Chiller Product Code	Units	AC-WAR-VP-10-TP	AC-WAR-VP-20-TP	AC-WAR-VP-25-TP	AC-WAR-VP-40-TP
Cooling Capacity +7C supply +35C ambient	kW	1.3	1.7	2.6	4
Compressor Power Input	kW	0.6	0.8	1.1	1.8
Fan Power Input	kW	0.07	0.07	0.07	0.13
Pump Power Input	kW	0.37	0.37	0.37	0.37
Combined Power Input	kW	1.04	1.24	1.54	2.3
Power Supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50	415/3/50
Operating Current	Amp	3.1	5.0	5.7	2.9
Max Current Draw	Amp	3.8	6.9	9.7	6.1
Locked Rotor Amps	Amp	17.5	23.0	30.0	45
Type of Refrigerant		R134a	R134a	R134a	R134a
Outdoor Installation		Not Suitable	Not Suitable	Not Suitable	Not Suitable
Expansion Device		Thermostatic Expansion Valve			
Condenser Type		Copper Pipes, Aluminum Fins			
Fan Type		Axial (Ø25)	Axial (Ø25)	Axial (Ø30)	Axial (Ø35)
No. of Fans		1	1	1	1
Fan Motor Power	kW	0.07	0.07	0.07	0.13
Fan Speed Control		Yes	Yes	Yes	Yes
Condenser Air Flow Rate	m ³ /h	1250	1250	1250	2300
Compressor Type		Reciprocating	Reciprocating	Reciprocating	Scroll
No. Compressors		1	1	1	1
Compressor Capacity Control Steps	%	0 or 100%	0 or 100%	0 or 100%	0 or 100%
Number of Refrigerant Circuits		1	1	1	1
Nominal Compressor Power	HP	0.50	0.75	1.00	1.5
Evaporator Type		Braze Plate Heat Exchanger			
Evaporator Flow Rate	m ³ /h	0.2	0.4	0.3	0.8
Tank		Included, non-pressurised			
Tank Material		AISI 304 Stainless Steel			
Tank Volume	L	15	20	20	30
No of Pumps		1	1	1	1
Pump Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
Pump Power Input	kW	0.37	0.37	0.37	0.37
Pump Pressure	bar	3 bar	3 bar	3 bar	3 bar
Flow Protection		Flow switch	Flow switch	Flow switch	Flow switch
Water Inlet Connection Size	DN	15	15	15	20
Water Outlet Connection Size	DN	15	15	15	20
Type of Controller		Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller
HP Control		Auto Reset Switch	Auto Reset Switch	Auto Reset Switch	Auto Reset Switch
HP Gauge		No	No	No	No
LP Control		Transducer	Transducer	Transducer	Transducer
LP Gauge		No	No	No	No
Dimensions	mm	505 W x 555 D x 930 H	555 W x 675 D x 800 H	555 W x 675 D x 800 H	555 W x 750 D x 840 H
Dry Weight	Kg	90	110	110	120

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.

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.





Sentinel™



Range from 6 to 110kW

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

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.

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.



Notes

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- (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.

Specifications: 6.1-109.4 kW

Aqua Chiller Model code	Units	AC-SEN-VMP-65-TP	AC-SEN-VMP-85-TP	AC-SEN-VMP-100-TP	AC-SEN-VMP-130-TP	AC-SEN-VMP-250-TP
Cooling Capacity +7C supply +35C ambient	kW	6.1	7.7	9.0	11.8	23.3
Compressor Power Input	kW	2.2	2.6	2.9	3.5	7.5
Fan Power Input	kW	0.16	0.25	0.25	0.76	0.76
Pump Power Input	kW	0.37	0.75	0.75	0.75	1.5
Combined Power Input	kW	2.73	3.6	3.9	5.01	10.52
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
Operating Current	Amp	4	4.6	5.0	6.1	12.3
Max Current Draw	Amp	6	7	8	10.3	25
Locked Rotor Amps	Amp	38	46	43	51.5	142
Type of Refrigerant		R410a	R410a	R410a	R410a	R410a
Outdoor Installation		Suitable	Suitable	Suitable	Suitable	Suitable
Expansion Device		Thermostatic Expansion Valve				
Condenser Type		Copper Pipes, Aluminum Fins				
Fan Type		Axial (Ø40)	Axial (Ø45)	Axial (Ø45)	Axial (Ø45)	Axial (Ø45)
No. of Fans		1	1	1	1	2
Fan Motor Power	kW	0.16	0.25	0.25	0.76	2x0.76
Fan Speed Control		Yes	Yes	Yes	Yes	Yes
Condenser Air Flow Rate	m3/h	3500	4500	4500	8000	2x8000
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll
No. Compressors		1	1	1	1	1
Compressor Capacity Control Steps	%	0 or 100%	0 or 100%	0 or 100%	0 or 100%	0 or 100%
Number of Refrigerant Circuits		1	1	1	1	1
Nominal Compressor Power	HP	2.2	3	3.4	4.6	9
Evaporator Type		Braze Plate Heat Exchanger				
Evaporator Flow Rate	m3/h	1.1	1.3	1.6	2.0	4.0
Evaporate fouling factor		0.000043	0.000043	#N/A	0.000043	0.000043
Tank		Included, non-pressurised				
Tank Material		AISI 304 Stainless Steel				
Tank Volume	L	50	50	60	100	200
No of Pumps		1	1	1	1	1
Pump Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Pump Power Input	kW	0.37	0.75	0.75	0.75	1.5
Pump Pressure	bar	4 bar	4 bar	4 bar	4 bar	4 bar
Flow Protection		Flow-switch	Flow switch	Flow switch	Flow-switch	Flow-switch
Water Inlet Connection Size	DN	20	25	25	25	40
Water Outlet Connection Size	DN	20	25	25	25	40
Type of Controller		Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller
HP Control		Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch
HP Gauge		Yes	Yes	Yes	Yes	Yes
LP Control		Transducer	Transducer	Transducer	Transducer	Transducer
LP Gauge		Yes	Yes	Yes	Yes	Yes
Dimensions		600 W x 960 D x 900 H	600 W x 960 D x 950 H	750 W x 960 D x 1100 H	900 W x 1000 D x 1620 H	1000 W x 1660 D x 1830 H
Dry Weight	Kg	150	170	200	300	480

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+

AC-SEN-VMP-350-TP	AC-SEN-VMP-430-TP	AC-SEN-VMP-560-TP	AC-SEN-VMP-700-TP	AC-SEN-VMP-910-TP	AC-SEN-VMP-1160-TP
34.0	39.3	54.8	65.0	83.9	109.4
11.0	11.8	15.9	19.2	24.2	30.0
0.76	0.6	1.2	1.2	1.2	1.2
1.5	2.2	2.2	2.2	3	4
14.02	15.2	20.5	23.8	29.6	36.4
415/3/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
17.7	22.5	28.8	34.3	41.4	54.7
30	38.6	51	62	79	106
147	197	227	260	294	389
R410a	R410a	R410a	R410a	R410a	R410a
Suitable	Suitable	Suitable	Suitable	Suitable	Suitable
Thermostatic Expansion Valve					
Copper Pipes, Aluminum Fins					
Axial (Ø50)	Axial (Ø63)	Axial (Ø80)	Axial (Ø80)	Axial (Ø80)	Axial (Ø80)
2	2	2	2	2	2
2x0.76	2x0.6	2x1.2	2x1.2	2x1.2	2x1.2
Yes	Yes	Yes	Yes	Yes	Yes
2x8000	2x11000	2x15600	2x15600	2x22500	2x22500
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
1	1	1	1	1	1
0 or 100%	0 or 100%	0 or 100%	0 or 100%	0 or 100%	0 or 100%
1	1	1	1	1	1
12	15	20	25	30	40
Brazed Plate Heat Exchanger					
5.8	6.8	9.4	11.2	14.4	18.8
0.000043	0.000043	0.000043	0.000043	0.000043	0.000043
Included, non-pressurised					
AISI 304 Stainless Steel					
200	200	300	300	400	-
1	1	1	1	1	1
Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
1.5	2.2	2.2	2.2	3	4
4 bar	4 bar	4 bar	4 bar	4 bar	4 bar
Flow-switch	Flow-switch	Flow-switch	Flow-switch	Flow-switch	Flow-switch
40	40	40	50	50	65
40	40	40	50	50	65
Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller
Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch	Semi Auto Reset Switch
Yes	Yes	Yes	Yes	Yes	Yes
Transducer	Transducer	Transducer	Transducer	Transducer	Transducer
Yes	Yes	Yes	Yes	Yes	Yes
1000 W x 1660 D x 1830 H	1050 W x 1900 D x 1850 H	1080 W x 2450 D x 2200 H	1080 W x 2450 D x 2200 H	1130 W x 2710 D x 2500 H	1130 W x 3900 D x 2500 H
500	550	800	885	1200	1520

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.

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.





Optimus™



Range from 17 to 211kW

The Optimus series from Aqua Chiller offers an advanced range of outdoor chillers with capacities from 17 kW to 211 kW, specifically designed for Australian conditions. Engineered for superior efficiency, these units utilise tandem-configured scroll compressors to deliver exceptional part-load performance, making them an ideal choice for demanding outdoor applications.

Benefits

The Optimus series stands out with its high-quality components, including Danfoss/Copeland compressors, Carel controllers, and EBM fans, ensuring reliable and consistent cooling. The use of a brazed plate heat exchanger and a thermally insulated stainless steel water tank optimises cooling performance while minimising refrigerant charge. These chillers are designed not only for efficiency but also for ease of use, featuring Modbus capability, an internal pump, and fan speed control. Rigorous testing ensures that every unit performs reliably right out of the box, backed by a 1-year warranty for added peace of mind. The Optimus series is the ultimate solution for those seeking high-performance, dependable cooling in challenging outdoor environments.

Features

- Capacity range from 17kW to 211kW.
- Superior part-load efficiency is achieved by using scroll compressors in a tandem configuration.
- Advanced range of outdoor chillers.
- 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.



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.

Specifications: 17-211 kW

Aqua Chiller Name:	Units	AC-OPT-VSP-200-TP	AC-OPT-VSP-340-TP	AC-OPT-VSP-425-TP	AC-OPT-VSP-590-TP
Cooling Capacity +7C supply +35C ambient	kW	17.9	31.1	39.6	53.8
Compressor Power Input	kW	5.8	9.7	11.7	17.1
Fan Power Input	kW	0.76	0.76	0.6	0.76
Pump Power Input	kW	1	1	1.5	2.2
Combined Power Input	kW	5.8	9.7	11.7	17.1
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50
Operating Current	Amp	10	17.4	22.7	31.8
Max Current Draw	Amp	16	30	32.4	58
Locked Rotor Amps	Amp	86	150	202	284
Type of Refrigerant		R410a	R410a	R410a, 100% R410a	R410a
Outdoor Installation		Suitable	Suitable	Suitable	Suitable
Expansion Device		Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve
Condenser Type		Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins
Fan Type		Axial (Ø50)	Axial (Ø50)	Axial (Ø63)	Axial (Ø50)
No. of Fans		1	2	2	3
Fan Motor Power	kW	0.76	2 x 0.76	2 x 0.76	3 x 0.76
Fan Speed Control		Yes	Yes	Yes	Yes
Condenser Air Flow Rate	m3/h	8000	2x8000	2x8000	3x8000
Compressor Type		Scroll	Scroll	Scroll	Scroll
No. Compressors		2	2	2	2
Compressor Capacity Control Steps	%	0, 50%, 100%	0, 50%, 100%	0, 50%, 100%	0, 50%, 100%
Number of Refrigerant Circuits		1	1	1	1
Nominal Compressor Power	HP	2 x 3.4	2 x 6	2 x 7.5	2 x 10
Evaporator Type		Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger
Evaporator Flow Rate	m3/h	3.1	5.3	6.8	9.2
Tank		Included, non-pressurised	Included, non-pressurised	Included, non-pressurised	Included, non-pressurised
Tank material		AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel
Tank Volume	L	100	200	200	300
No of Pumps		1	1	1	1
Pump Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
Pump Power Input	kW	1	1	1.5	2.2
Pump Pressure	bar	4 bars	4 bars	4 bars	4 bars
Flow Protection		Flow-switch	Flow-switch	Flow Switch	Flow Switch
Water Inlet Connection Size	DN	25	25	25	40
Water Outlet Connection Size	DN	25	25	25	40
Type of Controller		Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller
HP Control		Semi-Auto Reset Switch	Semi-Auto Reset Switch	Semi-Auto Reset Switch	Semi-Auto Reset Switch
HP Gauge		Yes	Yes	Yes	Yes
LP Control		Transducer	Transducer	Transducer	Transducer
LP Gauge		Yes	Yes	Yes	Yes
Dimensions	mm	1000 W x 1400 D x 1840 H	1000 W x 1660 D x 1830 H	1060 W x 1660 D x 2110 H	950 W x 2450 D x 2010 H
Dry Weight	Kg	450	500	580	720

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+

AC-OPT-VSP-700-TP	AC-OPT-VSP-850-TP	AC-OPT-VSP-1120-TP	AC-OPT-VSP-1400-TP	AC-OPT-VSP-1820-TP	AC-OPT-VSP-2320-TP
64.6	80.5	106.3	133.1	163.9	211.0
18.6	23.5	33.3	38.5	50.0	63.2
1.2	1.2	1.2	1.2	1.2	1.2
3	3	4	5.5	7.5	11
18.6	23.5	33.3	38.5	50	63.2
415/3/50	415/3/50	415/3/50	415/3/50	415/3/50	415/3/50
35.4	44.9	57.5	68.6	82.8	109.3
60	77.2	102	124	158	212
294	394	454	520	588	778
R410a	R410a	R410a	R410a	R410a	R410a
Suitable	Suitable	Suitable	Suitable	Suitable	Suitable
Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve	Thermostatic Expansion Valve
Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins
Axial (Ø80)	Axial (Ø80)	Axial (Ø80)	Axial (Ø80)	Axial (Ø80)	Axial (Ø80)
2	2	2	3	3	4
2 x 1.2	2 x 1.2	2 x 1.2	3 x 1.2	3 x 1.2	4 x 1.2
Yes	Yes	Yes	Yes	Yes	Yes
2x22500	2x22500	2x22500	3x22500	3x22500	4x22500
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
2	2	2	2	2	2
0, 50%, 100%	0, 50%, 100%	0, 50%, 100%	0, 50%, 100%	0, 50%, 100%	0, 50%, 100%
1	1	1	1	1	1
2 x 12	2 x 15	2 x 20	2 x 25	2 x 30	2 x 40
Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger
11.1	13.8	18.3	22.9	28.2	36.3
Included, non-pressurised	Included, non-pressurised	Included, non-pressurised	Included, non-pressurised	Included, non-pressurised	Included, non-pressurised
AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel
300	300	300	500	500	500
1	1	1	1	1	1
Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
3	3	4	5.5	7.5	11
4 bars	4 bars	4 bars	4 bars	4 bars	4 bars
Flow Switch	Flow Switch	Flow Switch	Flow Switch	Flow Switch	Flow Switch
50	50	65	65	65	80
50	50	65	65	65	80
Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller	Carel µChiller
Semi-Auto Reset Switch	Semi-Auto Reset Switch	Semi-Auto Reset Switch	Semi-Auto Reset Switch	Semi-Auto Reset Switch	Semi-Auto Reset Switch
Yes	Yes	Yes	Yes	Yes	Yes
Transducer	Transducer	Transducer	Transducer	Transducer	Transducer
Yes	Yes	Yes	Yes	Yes	Yes
1080 W x 2450 D x 2200 H	1080 W x 2450 D x 2200 H	1130 W x 3100 D x 2550 H	1130 W x 3900 D x 2630 H	1130 W x 3900 D x 2730 H	1200 W x 5000 D x 2620 H
810	830	1420	1720	1800	2330

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.

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.





Range from 20 to 100kW

Introducing the Apex range from Aqua Chiller—our premium selection of industrial chillers, designed to deliver unmatched performance and reliability in outdoor Australian conditions. With capacities ranging from 20 to 100 kW, the Apex chillers feature advanced variable speed scroll compressors from Danfoss, ensuring precise cooling and energy efficiency.

Features

- Capacity range 20-100 kW.
- High efficiency and quiet operation with variable speed driven scroll compressors and EC Brushless fans
- Chiller has stepless capacity control in 1% increments from 25% through to 100% - ensuring the chiller only works as hard as it needs to at all times.
- 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.
- Less refrigerant charge by using an efficient brazed plate heat exchanger as the evaporator.
- Equipped with a electronic expansion valve.
- Includes a generously sized copper pipe aluminum finned condenser coil for high efficiency.
- Features the Carel pCO5 series advanced controller with optional web control card, remote display or RS485 capabilities.
- 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.
- Flow switch protection.

Benefits

The Apex series represents the peak of industrial cooling solutions, delivering unmatched efficiency and precise cooling control with state-of-the-art technology. Equipped with Danfoss variable speed compressors, electronic expansion valves, EBM brushless EC fans, and Carel pCO5 control technology, these chillers adapt perfectly to your cooling demands, significantly reducing energy waste.

Each unit undergoes rigorous testing under real-world conditions before dispatch and is built for longevity, with a galvanized steel frame and a thermally insulated stainless steel water tank and pump.. Designed for those who demand top-tier performance, the Apex series ensures reliable cooling and is backed by a comprehensive 3-year warranty (b).

- 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.



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.

Specifications: 20-100 kW

Aqua Chiller Model Name	Units	AC-APE-VMP-I-230-TP	AC-APE-VMP-I-460-TP	AC-APE-VMP-I-615-TP
Cooling Capacity +7C supply +35C ambient	kW	20	40	56.9
Compressor Power Input	kW	6.3	12.8	18.1
Fan Power Input	kW	0.8	0.8	1.6
Pump Power Input	kW	1.1	1.5	2.2
Combined Power Input	kW	8.2	15.1	21.9
Power Supply	V/Ph/Hz	415/3/50	415/3/50	415/3/50
Operating Current	Amp	9.1	20.3	28.8
Max Current Draw	Amp	17.8	31.5	41.5
Type of Refrigerant		R410a	R410a	R410a
Outdoor Installation		Suitable	Suitable	Suitable
Expansion Device		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Condenser Type		Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins
Fan Type		EC Axial (Ø50)	EC Axial (Ø80)	EC Axial (Ø63)
No. of Fans		1	1	2
Fan Motor Power	kW	1.3	2.0	2x1.0
Fan Speed Control	Stepless Increment EC Fan	10%-100%	10%-100%	10%-100%
Condenser Air Flow Rate	m ³ /h	9000	15600	2x11000
No. of Condensers		1	1	2
Compressor Type		AC Inverter Scroll	AC Inverter Scroll	AC Inverter Scroll
No. Compressors		1	1	1
Compressor Capacity Control Steps	Stepless Increments	0%, then stepless from 25% to 100%	0%, then stepless from 25% to 100%	0%, then stepless from 25% to 100%
Number of refrigerant circuits		1	1	1
Evaporator type		Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger
Evaporator flow rate (m ³ /h)		3.5	6.9	9.8
Tank		Included, non-pressurised	Included, non-pressurised	Included, non-pressurised
Tank material		AISI 304 Stainless Steel	AISI 304 Stainless Steel	AISI 304 Stainless Steel
Tank volume		100	300	350
Number of pumps		1	1	1
Pump Type		AISI SS304 Centrifugal	AISI SS304 Centrifugal	AISI SS304 Centrifugal
Pump Pressure		4 bars	4 bars	4 bars
Flow Protection (Flow displayed on controller)		Yes	Yes	Yes
Water Inlet Connection Size	DN	32	32	40
Water Outlet Connection Size	DN	32	32	40
Type of controller		Carel pCO5	Carel pCO5	Carel pCO5
Modbus		Yes	Yes	Yes
Supervisory connection and web interface card		Option	Option	Option
HP Control		Semi Auto Reset Switch and Transducer	Semi Auto Reset Switch and Transducer	Semi Auto Reset Switch and Transducer
HP Gauge		Transducer	Transducer	Transducer
LP Control		Yes	Yes	Yes
LP Gauge		Transducer	Transducer	Transducer
Dimensions	mm	900 W x 1000 D x 1830 H	1050 W x 1900 D x 2050 H	950 W x 2450 D x 2050 H
Dry Weight	kg	330	600	720

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+

AC-APE-VMP-I-900-TP	AC-APE-VMP-I-1230-TP
80.0	100.0
24.5	30.8 (2x15.4)
2.7	3
3	4
30.2	37.8
415/3/50	415/3/50
38.2	49.4 (2x24.7)
58.5	83.0 (2x41.5)
R410a	R410a
Suitable	YES
Electronic Expansion Valve	Electronic Expansion Valve
Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins
EC Axial (Ø80)	EC Axial (Ø63)
2	4
2.0	4x1.0
10%-100%	10%-100%
2x22500	4x11000
2	2
AC Inverter Scroll	AC Inverter Scroll
1	2
0%, then stepless from 25% to 100%	0%, then stepless from 12.5% to 100%
1	2
Brazed Plate Heat Exchanger	Brazed Plate Heat Exchanger
13.8	17.2
Included, non-pressurised	Included, non-pressurised
AISI 304 Stainless Steel	AISI 304 Stainless Steel
350	400
1	1
AISI SS304 Centrifugal	AISI SS304 Centrifugal
4 bars	4 bars
Yes	Yes
50	65
50	65
Carel pCO5	Carel pCO5
Yes	Yes
Option	Option
Semi Auto Reset Switch and Transducer	Semi Auto Reset Switch and Transducer
Transducer	Transducer
Yes	Yes
Transducer	Transducer
1100 W x 3180 D x 2300 H	1400 W x 3180 D x 2250 H
1100	1500

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.

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.



Range from 155 to 320kW

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.

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.

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.

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.

Specifications: 155-332 kW

Aqua Chiller Model name		AC-ZEU-VSA-168	AC-ZEU-VSA-190	AC-ZEU-VSA-231
Cooling Capacity +7C supply +35C ambient	kW	155.1	175.8	199.0
Compressor Power Input	kW	46.0	52.0	59.1
Refrigerant		R134a	R134a	R134a
Outdoor Installation		Suitable	Suitable	Suitable
Expansion Device		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Operating Current	Amp	70	87	97
Max Current Draw	Amp	169	145	152
Locked Rotor Amps	Amp	298	373	405
Condenser Type		Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins
Number of Condensers		2	2	2
Fan Type		Axial (Ø80)	Axial (Ø80)	Axial (Ø80)
Fan quantity		3	4	4
Fan power input	kW	3x1.2	4x1.2	4x1.2
Fan air flow	m3/h	3x22500	4x22500	4x22500
Fan Speed Control		Yes	Yes	Yes
Compressor Type		Twin Screw	Twin Screw	Twin Screw
No. Compressors		1	1	1
Compressor Capacity Control	Stepless	0%, then stepless from 50% to 100%	0%, then stepless from 50% to 100%	0%, then stepless from 50% to 100%
Number of refrigerant circuits		1	1	1
Evaporator type		Shell & tube	Shell & tube	Shell & tube
Evaporator flow rate	m3/h	26.7	30.2	34.2
Tank volume		Option	Option	Option
Number of pumps		Option	Option	Option
Pump Pressure		Option	Option	Option
Type of flow protection		Flow switch	Flow switch	Flow switch
Water Inlet Connection Size	DN	125	125	125
Water Outlet Connection Size	DN	125	125	125
Type of controller		Carel pCO5 Series	Carel pCO5 Series	Carel pCO5 Series
Modbus		Option	Option	Option
Supervisory connection and web interface card		Option	Option	Option
HP Control		Pressure Switch and Transducer	Pressure Switch and Transducer	Pressure Switch and Transducer
LP Control		Transducer	Transducer	Transducer
Dimensions	mm	1300 W x 3900 D x 2530 H	1300 W x 5000 D x 2550 H	1300 W x 5000 D x 2550 H
Dry Weight	kg	1950	2350	2380

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+



Utilises screw compressors for large cooling capacity requirements.

AC-ZEU-VSA-274	AC-ZEU-VSA-308	AC-ZEU-VSA-355
238.4	277.2	321.5
70.9	84.3	95.2
R134a	R134a	R134a
Suitable	Suitable	Suitable
Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
117	138	155
180	198	221
434	530	587
Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins	Copper Pipes, Aluminum Fins
2	4	4
Axial (Ø80)	Axial (Ø80)	Axial (Ø80)
6	6	6
6x1.2	6x1.2	6x1.2
6x22500	6x22500	6x22500
Yes	Yes	Yes
Twin Screw	Twin Screw	Twin Screw
1	1	1
0%, then stepless from 50% to 100%	0%, then stepless from 50% to 100%	0%, then stepless from 50% to 100%
1	1	1
Shell & tube	Shell & tube	Shell & tube
41.0	47.7	55.7
Option	Option	Option
Option	Option	Option
Option	Option	Option
Flow switch	Flow switch	Flow switch
125	125	125
125	125	125
Carel pCO5 Series	Carel pCO5 Series	Carel pCO5 Series
Option	Option	Option
Option	Option	Option
Pressure Switch and Transducer	Pressure Switch and Transducer	Pressure Switch and Transducer
Transducer	Transducer	Transducer
2200 W x 3900 D x 2620 H	2200 W x 3900 D x 2620 H	2200 W x 3900 D x 2530 H
2730	2750	2950

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.

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.



GLADIATOR



Range from 1 to 200kW

The Gladiator range from Aqua Chiller is a value-focused, affordable, and reliable option for your industrial cooling needs, delivering quality without compromise. These process chillers are designed to handle a wide range of applications, making them a versatile choice for the harsh Australian climate.

Benefits

The Gladiator range boasts impressive features, including world-leading refrigeration components and a simple, set-and-forget PCB controller for reliable operation. With a robustly constructed powder-coated frame, these chillers are built to last. The wide operating limits make Gladiator chillers adaptable to various conditions, while the internal buffer tanks ensure consistent temperatures even under varying loads. With a diverse selection of models, there's a Gladiator chiller to suit nearly any application. Backed by over 50 years of expertise in refrigeration, Aqua Chiller's proud history gives you the confidence to select a Gladiator chiller that meets your process cooling needs with reliability and efficiency.

Features

- Your choice of refrigerant (R134a, R410A).
- Built with world-market-leading component brands such as Emerson and Danfoss compressors.
- Hydrophilic-coated aluminium condenser fins with an upgrade e-coating option for additional corrosion protection.
- High-quality build with galvanised frames and panels forming a stylish and practical structure.
- Laden with safety features, such as phase failure protection, flow switch protection, high and low pressure protection included as a standard feature in all G Series chillers.
- Available in both air-cooled and water-cooled configurations and open or closed loop pipework to suit the process needs.
- Various water pump options to suit high and low pressure applications.
- Multiple evaporator types available including coil-in-tank, shell-and-tube or plate heat exchanger.
- Manually controlled water bypass valve to reduce water flow to suit applications.
- Supports remote start/stop/on/off , remote alarm signal output, and remote run signal.

Quality Assured



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.

Specifications: 1-31 kW

Model	Cooling Capacity	Input Power	Power	Current Draw (A)		Refrigerant			Compressor				Type
	kW	kW		Operation	Maximum	Type	Charge (kg)	Control method	Type	Number in Chiller	Brand	Power (kW)	
GA0.6-410-CC	1.5	1.3	1PH/220V/50HZ	4.4	6.4	R410A	0.6	Capillary	Rotary	1	Panasonic	0.6	Hydrophilic Aluminium fin with low noise rotor fan
GA0.6-410-PP	1.5	1.3		4.4	6.4	R410A	0.6		Rotary	1	Panasonic	0.6	
GA0.6-A-CC	1.6	1.3		4.3	5.6	R134a	0.6		Rotary	1	Haili	0.6	
GA0.6-A-PP	1.7	1.2		4.3	5.6	R134a	0.6		Rotary	1	Haili	0.5	
GA1-410-CC	2.5	1.6		6.1	8.6	R410A	0.7		Rotary	1	Panasonic	0.9	
GA1-A-CC	2.7	1.9		8.3	18	R134a	1.0		Rotary	1	Emerson	1.2	
GA1-A-PP	3.0	1.9		8.5	18	R134a	1.0		Rotary	1	Emerson	1.2	
GA1-410-PP	3.1	1.6		6.1	8.6	R410A	0.7		Rotary	1	Panasonic	0.9	
GA2-410-CC	4.2	2.4		9.3	15	R410A	1.2		Rotary	1	Panasonic	1.6	
GA2-A-CC	4.5	2.6		12.0	26	R134a	1.2		Rotary	11	Emerson	1.8	
GA2-A-PP	5.0	2.6		12.0	26	R134a	1.2		Rotary	1	Emerson	1.8	
GA2-410-PP	5.3	2.4		9.3	15	R410A	1.2		Rotary	1	Panasonic	1.6	
GA3-410-CC	6.5	3.6		7.0	12	R410A	2.0		Scroll	1	Panasonic	2.5	
GA3-A-CC	7.0	3.5		8.3	15	R134a	3.0		Scroll	1	Emerson	2.5	
GA3-410-PP	7.7	3.6	7.1	12	R410A	2.0	Scroll	1	Panasonic	2.6			
GA3-A-PP	7.8	3.5	8.3	15	R134a	3.0	Scroll	1	Emerson	2.6			
GA5-A-CC	11	4.8	12.0	25	R134a	5.0	Scroll	1	Emerson	3.9			
GA5-410-CC	11	4.8	8.9	16	R410A	3.3	Scroll	1	Panasonic	4.0			
GA6-A-CC	12	5.3	12	26	R134a	6.6	Expansion Valve	Scroll	1	Emerson	4.3		
GA5-A-PP	12	4.9	12	25	R134a	5.0	Capillary	Scroll	1	Emerson	4.0		
GA6-410-CC	13	5.6	10	21	R410A	4.2	Expansion Valve	Scroll	1	Danfoss	4.6		
GA5-410-PP	14	4.8	9.0	16	R410A	3.3	Capillary	Scroll	1	Panasonic	4.1		
GA6-A-PP	14	5.4	12	26	R134a	6.6	Expansion Valve	Scroll	1	Emerson	4.4		
GA6-410-PP	16	5.7	10	21	R410A	4.2		Scroll	1	Danfoss	4.8		
GA8(D)-A-CC	17	7.5	11	35	R134a	8.0		Scroll	2	Emerson	2.9		
GA8(D)-410-CC	18	8.2	16	32	R410A	5.2		Scroll	2	Panasonic	3.3		
GA8(D)-A-PP	19	7.6	11	35	R134a	8.0		Scroll	2	Emerson	3.0		
GA8(D)-410-PP	22	8.3	16	32	R410A	5.2		Scroll	2	Panasonic	3.4		
GA10(D)-A-CC	22	9.4	22	37	R134a	10		Scroll	2	Emerson	3.9		
GA10(D)-410-CC	22	9.7	19	33	R410A	6.5		Scroll	2	Danfoss	4.0		
GA10(D)-A-PP	24	9.6	23	37	R134a	10		Scroll	2	Emerson	4.0		
GA12(D)-410-CC	26	11	20	42	R410A	8.4		Scroll	2	Danfoss	4.6		
GA10(D)-410-PP	26	9.9	19	33	R410A	6.5		Scroll	2	Danfoss	4.1		
GA12(D)-A-CC	28	12	27	57	R134a	13		Scroll	2	Danfoss	5.1		
GA12(D)-410-PP	31	12	20	42	R410A	8.4	Scroll	2	Danfoss	4.8			

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
- Working conditions:
 - Recommended temperature range of chilled fluid: 3°C and 25°C. Use of glycol recommended for set points under 3°C.
 - Temperature difference between inlet and outlet chilled fluid between 3°C and 10°C
 - We recommend the use of R134a when ambient temperatures are expected to reach 40°C+
- Operation current draw (OCD) per phase at design point - Measure under Evaporating Temp: 2°C | Condensing Temp: 50°C | Superheat: 5K | Subcooling: 2K
- The flow rate is the nominal flow rate at the available lift. The actual flow rate will depend on the load requirement and the pump curve. Non-standard pump available on request.

Compressor	Evaporator			Water Pump Standard Option Stainless Steel #304 Pump / Pipes			Water Pump Upgrade Option Stainless Steel #304 Pump / Pipes			Dimensions and Weight			
	Cooling air flow (m3/h)	Type	Tank volume	Inlet/outlet pipe calibre	Avail Lift (m)	Flow Rate (L/s)	Model	Avail Lift (m)	Flow Rate (L/s)	Model	Length (mm)	Width (mm)	Height (mm)
2400	Coil in Tank	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Plate Pack	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Coil in Tank	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Plate Pack	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Coil in Tank	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Coil in Tank	22	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Plate Pack	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
2400	Plate Pack	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
3600	Coil in Tank	20	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
3600	Coil in Tank	50	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	1165	570	1185	160
3600	Plate Pack	16	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	1165	570	1185	160
3600	Plate Pack	20	1/2"	21	2 m3/h 0.56 L/s	CHLF2-30	35	2 m3/h 0.56 l/s	CHLF2-50	715	730	1140	140
4500	Coil in Tank	50	1"	21	2 m3/h 0.56 L/s	CHLF2-30	42	2 m3/h 0.56 L/s	CHLF2-60	1165	570	1185	160
4500	Coil in Tank	50	1"	21	2 m3/h 0.56 L/s	CHLF2-30	42	2 m3/h 0.56 L/s	CHLF2-60	1565	560	1230	190
4500	Plate Pack	20	1"	21	2 m3/h 0.56 L/s	CHLF2-30	42	2 m3/h 0.56 L/s	CHLF2-60	1165	570	1185	160
4500	Plate Pack	20	1"	21	2 m3/h 0.56 L/s	CHLF2-30	42	2 m3/h 0.56 L/s	CHLF2-60	1565	560	1230	190
4500	Coil in Tank	60	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1565	560	1230	200
4500	Coil in Tank	60	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1565	560	1230	190
4500	Coil in Tank	75	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1645	780	1640	350
4500	Plate Pack	30	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1565	560	1230	200
4500	Coil in Tank	75	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1565	560	1230	200
4500	Plate Pack	30	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1565	560	1230	190
4500	Plate Pack	30	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1645	780	1640	350
4500	Plate Pack	30	1"	22	4 m3/h 1.11 L/s	CHLF4-30	38	4 m3/h 1.11 L/s	CHLF4-50	1565	560	1230	200
9000	Coil in Tank	120	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	580
9000	Coil in Tank	120	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	350
9000	Plate Pack	85	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	580
9000	Plate Pack	85	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	350
9000	Coil in Tank	200	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	700
9000	Coil in Tank	200	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	80	1640	580
9000	Plate Pack	85	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	700
9000	Coil in Tank	200	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	700
9000	Plate Pack	85	1-1/2"	30	4 m3/h 1.11 L/s	CHLF4-40	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	580
9000	Coil in Tank	200	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	42.5	8 m3/h 2.22 L/s	CHLF8-50	2015	990	1780	830
9000	Plate Pack	85	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	42.5	8 m3/h 2.22 L/s	CHLF8-50	1645	780	1640	700

Safety 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
- Phase Sequence or Missing Phase Protection
- Low Water Level Alarm Protection

Specifications: 1-31 kW

Model	Cooling Capacity	Input Power	Power	Current Draw (A)		Refrigerant Type	Refrigerant Charge (kg)	Control method	Compressor			Condenser Type	
	kW	kW		Operation	Maximum				Type	Type	Number in Chiller		Brand
GA12(D)-A-PP	32	12	3PH/415V/50HZ	27	57	R134a	13	Expansion Valve	Scroll	2	Danfoss	5.2	Hydrophillic Aluminium fin with low noise rotor fan
GA15(D)-A-CC	34	15		34	69	R134a	17		Scroll	2	Danfoss	6.3	
GA15(D)-410-CC	34	14		27	55	R410A	11		Scroll	2	Danfoss	5.7	
GA15(D)-A-PP	38	16		34	69	R134a	17		Scroll	2	Danfoss	6.4	
GA15(D)-410-PP	40	14		28	55	R410A	11		Scroll	2	Danfoss	5.9	
GA20(D)-410-CC	45	19		34	57	R410A	14		Scroll	2	Danfoss	7.5	
GA20(D)-410-PP	53	20		35	57	R410A	14		Scroll	2	Danfoss	7.7	
GA20(D)-A-CC	57	25		49	107	R134a	22		Scroll	2	Danfoss	10.5	
GA25(D)-410-CC	58	26		47	81	R410A	18		Scroll	2	Danfoss	10.0	
GA20(D)-A-PP	63	26		50	107	R134a	22		Scroll	2	Danfoss	10.8	
GA30(D)-410-CC	67	28		53	87	R410A	21		Scroll	2	Danfoss	11.3	
GA25(D)-410-PP	69	26		48	82	R410A	18		Scroll	2	Danfoss	10.3	
GA25(D)-A-CC	71	32		65	149	R134a	28		Scroll	2	Danfoss	13.0	
GA25(D)-A-PP	79	32		66	149	R134a	28		Scroll	2	Danfoss	13.3	
GA30(D)-410-PP	79	28		54	87	R410A	21		Scroll	2	Danfoss	11.7	
GA40(F)-410-CC	89	35		64	110	R410A	28		Scroll	4	Danfoss	7.5	
GA30(D)-A-CC	90	36		67	168	R134a	33		Scroll	2	Danfoss	15.6	
GA30(D)-A-PP	100	37		68	168	R134a	33		Scroll	2	Danfoss	16.0	
GA40(F)-410-PP	106	36		66	110	R410A	28		Scroll	4	Danfoss	7.7	
GA40(F)-A-CC	114	47		94	210	R134a	44		Scroll	4	Danfoss	10.5	
GA50(F)-410-CC	116	48		85	153	R410A	35		Scroll	4	Danfoss	10.0	
GA40(F)-A-PP	127	48		95	210	R134a	44		Scroll	4	Danfoss	10.8	
GA60(F)-410-CC	133	53		99	168	R410A	42		Scroll	4	Danfoss	11.3	
GA50(F)-410-PP	137	49		86	153	R410A	35		Scroll	4	Danfoss	10.3	
GA50(F)-A-CC	142	60		121	289	R134a	55		Scroll	4	Danfoss	13.0	
GA50(F)-A-PP	158	61		122	289	R134a	55		Scroll	4	Danfoss	13.3	
GA60(F)-410-PP	158	55		101	168	R410A	42		Scroll	4	Danfoss	11.7	
GA60(F)-A-CC	179	70		129	329	R134a	66		Scroll	4	Danfoss	15.6	
GA60(F)-A-PP	200	72		130	329	R134a	66		Scroll	4	Danfoss	16.0	

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
- Working conditions:
 - Recommended temperature range of chilled fluid: 3°C and 25°C. Use of glycol recommended for set points under 3°C.
 - Temperature difference between inlet and outlet chilled fluid between 3°C and 10°C
 - We recommend the use of R134a when ambient temperatures are expected to reach 40°C+
- Operation current draw (OCD) per phase at design point - Measure under Evaporating Temp: 2°C | Condensing Temp: 50°C | Superheat: 5K | Subcooling: 2K
- The flow rate is the nominal flow rate at the available lift. The actual flow rate will depend on the load requirement and the pump curve. Non-standard pump available on request.

Compressor	Evaporator			Water Pump Standard Option Stainless Steel #304 Pump / Pipes			Water Pump Upgrade Option Stainless Steel #304 Pump / Pipes			Dimensions and Weight			
	Cooling air flow (m3/h)	Type	Tank volume	Inlet/outlet pipe calibre	Avail Lift (m)	Flow Rate (L/s)	Model	Avail Lift (m)	Flow Rate (L/s)	Model	Length (mm)	Width (mm)	Height (mm)
9000	Plate Pack	85	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	42.5	8 m3/h 2.22 L/s	CHLF8-50	2015	990	1780	830
9600	Coil in Tank	300	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	39.5	12 m3/h 3.33 L/s	CHLF12-40	2065	1130	1820	890
9600	Coil in Tank	300	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	39.5	12 m3/h 3.33 L/s	CHLF12-40	2015	990	1780	830
9600	Plate Pack	145	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	39.5	12 m3/h 3.33 L/s	CHLF12-40	2065	1130	1820	890
9600	Plate Pack	145	2"	25.5	8 m3/h 2.22 L/s	CHLF8-30	39.5	12 m3/h 3.33 L/s	CHLF12-40	2015	990	1780	830
13000	Coil in Tank	350	2"	34	10 m3/h 2.77 L/s	CDMF10-4	39.5	12 m3/h 3.33 L/s	CHLF12-40	2065	1130	1820	890
13000	Plate Pack	170	2"	34	10 m3/h 2.77 L/s	CDMF10-4	39.5	12 m3/h 3.33 L/s	CHLF12-40	2065	1130	1820	890
13000	Coil in Tank	350	2"	34	10 m3/h 2.77 L/s	CDMF10-4	39.5	12 m3/h 3.33 L/s	CHLF12-40	2165	1130	2150	960
18000	Coil in Tank	350	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15 m3/h 4.17 l/s	CHLF15-40	2165	1130	2150	960
13000	Plate Pack	170	2"	34	10 m3/h 2.77 L/s	CDMF10-4	39.5	12 m3/h 3.33 L/s	CHLF12-40	2165	1130	2150	960
18000	Coil in Tank	460	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15 m3/h 4.17 l/s	CHLF15-40	2065	1480	2000	1250
18000	Plate Pack	170	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15 m3/h 4.17 l/s	CHLF15-40	2165	1130	2150	960
18000	Coil in Tank	350	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15 m3/h 4.17 l/s	CHLF15-40	2065	1480	2000	1250
18000	Plate Pack	170	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15 m3/h 4.17 l/s	CHLF15-40	2065	1480	2000	1250
18000	Plate Pack	220	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15 m3/h 4.17 l/s	CHLF15-40	2065	1480	2000	1250
18000	Coil in Tank	580	2-1/2"	23	20 m3/h 5.55 L/s	CDLF20-2	40	32 m3/h 8.88 L/s	CDLF32-30	2165	1660	2050	1350
18000	Coil in Tank	460	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15m3/h 4.17 L/s	CHLF15-40	2065	1560	2000	1350
18000	Plate Pack	220	2-1/2"	34.5	15m3/h 4.17 L/s	CDMF15-3	45	15m3/h 4.17 L/s	CHLF15-40	2065	1560	2000	1350
18000	Plate Pack	240	2-1/2"	23	20 m3/h 5.55 L/s	CDLF20-2	40	32 m3/h 8.88 L/s	CDLF32-30	2165	1660	2050	1350
18000	Coil in Tank	580	2-1/2"	23	20 m3/h 5.55 L/s	CDLF20-2	40	32 m3/h 8.88 L/s	CDLF32-30	2785	1760	2050	1650
26000	Coil in Tank	620	3"	27	32 m3/h 8.88 L/s	CDLF32-20	40	32 m3/h 8.88 L/s	CDLF32-30	2785	1760	2050	1650
18000	Plate Pack	240	2-1/2"	23	20 m3/h 5.55 L/s	CDLF20-2	40	32 m3/h 8.88 L/s	CDLF32-30	2785	1760	2050	1650
26000	Coil in Tank	750	3"	27	32 m3/h 8.88 L/s	CDLF32-20	40	32 m3/h 8.88 L/s	CDLF32-30	3135	2200	2000	1850
26000	Plate Pack	345	3"	27	32 m3/h 8.88 L/s	CDLF32-20	40	32 m3/h 8.88 L/s	CDLF32-30	2785	1760	2050	1650
26000	Coil in Tank	620	3"	27	32 m3/h 8.88 L/s	CDLF32-20	40	32 m3/h 8.88 L/s	CDLF32-30	3135	2200	2000	1850
26000	Plate Pack	345	3"	27	32 m3/h 8.88 L/s	CDLF32-20	40	32 m3/h 8.88 L/s	CDLF32-30	3135	2200	2000	1850
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26000	Plate Pack	345	3"	27	32 m3/h 8.88 L/s	CDLF32-20	40	32 m3/h 8.88 L/s	CDLF32-30	3135	2200	2000	1850

Safety 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
- Phase Sequence or Missing Phase Protection
- Low Water Level Alarm Protection



Over 50 Years of Cooling Expertise

Aqua Chiller offers a host of products and solutions to the market as well as a resource-packed aftermarket service. With over 50 years in refrigeration and an intimate understanding of our customer's process cooling needs allow us to provide an unparalleled level of specialised aftermarket service.

There's an Aqua Chiller process chiller to fit every application. We regularly supply industries such as medical imaging, healthcare, plastic manufacturing, mining and mineral production, pharmaceutical, farming, laser and waterjet cutting, data centres, food processors and almost any other process imaginable that requires water cooling.

Tailored Cooling Solutions for Every Industry

Aqua Chiller possesses the capacity to design and manufacture chillers and other products to given specifications. If you have an out-of-the-ordinary use case, contact us for more information on how we might be able to assist you with your application.

- Water cooled chillers.
- Oil chillers.
- Double zone chillers.
- Inverter driven screw chillers.
- Custom sizes.
- Redundancy chillers for critical applications .
- Heating/Cooling units.



Australian Owned Since 1994

Aqua Chiller is etched into Australian history with a heritage that dates back to 1946. Since then, Aqua Chiller has been supplying the Australian market with high-quality products and services.



Highest Quality Materials

Aqua Chiller's products are manufactured from high-quality components supplied by industry leaders. They have a strict quality control process ensuring only reliable components are used.



Australian Owned Since 1994

It's no surprise why Aqua Chiller is trusted by Australians. Aqua Chiller's water coolers are robust and high performance, made for the harsh Australian conditions.

Trusted By



Queensland Government



MONASH University



BHP

UNSW
THE UNIVERSITY OF NEW SOUTH WALES

Chiller Enquiry Form

Name: <input type="text"/>	Phone Number: <input type="text"/>
Company: <input type="text"/>	Email: <input type="text"/>

What process or equipment requires cooling?

(Please specify the equipment or system the chiller will be cooling, such as a tank, a machine with an internal heat exchanger, a separate external heat exchanger, etc.)

Is there an existing chiller on site performing this task?

If yes, please provide the make, model, and serial number (if known).

What is the heat load (kW) for the application?

(If known, please provide the required cooling capacity in kilowatts.)

What is the maximum ambient temperature at which the chiller must deliver 100% cooling capacity?

What is the maximum ambient temperature at which the chiller must operate, even with reduced cooling capacity?

What is the minimum ambient temperature at which this chiller will be required to operate?

What is the desired supply water temperature (from chiller to process)?

What is the return water temperature (from the process back to the chiller)?

Have you selected a specific chiller range from page 6?

What is the delivery address for the chiller?

(For freight cost estimation.)

Are there any restrictions or requirements regarding flow rate for the application?

What is the pressure drop across the water pipework and process?

Is this a closed-loop system?

Is the chilled water circuit equipped with an "open" buffer tank or is it entirely closed pipework?

Do you require Modbus compatibility?

Do you need a remote control option?

Do you need a remote condenser option?

Are there any other customizations you require?

Will the installed environment be exposed to corrosive conditions?

Is the water in contact with the chiller intended for human consumption?

Are you interested in receiving an installation quotation?

Are there any special site induction requirements for our pre-start-up installation check?

For any assistance in filling out this form please contact us on 1300 278 226 or email us at care@aquacooler.com



Your Partner in Cool.



Internet

www.aquachiller.com
care@aquachiller.com

Address

38-44 Relentless Court
Park Ridge Qld 4125 Australia

Phone Numbers

Sales: 1300 278 226
Service: 1800 278 226

Your Partner In Cool.