

## GA20(D)-410-CC

The Gladiator range is a value-focused, affordable and reliable option for your industrial cooling needs without sacrificing quality.



### KEY FEATURES

- > Built with world-market-leading component brands such as Emerson and Danfoss compressors.
- > Hydrophilic-coated aluminium condenser fins with an optional upgrade e-coating option for additional corrosion protection.
- > 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.
- > Easy to read and use PCB for control
- > Multiple evaporator types available including coil-in-tank, shell-and-tube or plate heat exchanger available
- > 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.
- > Available in both air-cooled and water-cooled configurations and open or closed loop pipework to suit the process needs
- > Designed for and tested in Australian conditions

### BENEFITS

- Wide operating limits means Aqua Cooler's Gladiator Chillers can be used in a broad range of situations, particularly important for the harsh Australian climate.
- Internal buffer tanks ensure that temperature remains consistent under varying loads.
- Simple to use PCB controller; Set-and-forget reliability.
- A large selection of Gladiator models are available to suit a wide range of applications.
- With over 50 years in refrigeration and an intimate understanding of our customer's process cooling needs, Aqua Cooler's proud history allows you to select a Gladiator Chiller with confidence.

### 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

### Quality Assured

All Gladiator Series chillers are tested throughout the manufacturing process followed by a substantial and comprehensive test upon completion and again before dispatch. Coupled with the world's most trusted component brands, Aqua Cooler's products are designed and built to last in Australian conditions.



### SPECIFICATIONS

<b>Model</b>	GA20(D)-410-CC	
<b>Cooling Capacity</b>	kW	45
<b>Input Power</b>	kW	19
	Power	3PH/415V/50HZ
<b>Current Draw (A)</b>	Operation	34
	Maximum	57
<b>Refrigerant</b>	Type	R410A
	Charge (kg)	14
	Control Method	Expansion Valve
<b>Compressor</b>	Type	Scroll
	Number in Chiller	2
	Brand	Danfoss
	Power (kW)	7.5
<b>Condensor</b>	Type	Hydrophilic Aluminium fin with low noise rotor fan
	Cooling air flow	13000
<b>Evaporator</b>	Type	Coil in Tank
	Tank Volume (L)	350
	Inlet/outlet Pipe	2"
<b>Water Pump Standard Option Stainless Steel #304 Pump / Pipes</b>	Avail Lift (m)	34
	Flow Rate (L/s)	10 m <sup>3</sup> /h   2.77 L/s
	Model	CDMF10-4
<b>Water Pump Upgrade Option Stainless Steel #304 Pump / Pipes</b>	Avail Lift (m)	39.5
	Flow Rate (L/s)	12 m <sup>3</sup> /h   3.33 L/s
	Model	CHLF12-40
<b>Dimensions and Weight</b>	Length (mm)	2065
	Width (mm)	1130
	Height (mm)	1820
	Weight (Kg)	890

### NOTES

1. Nominal cooling capacity is calculated with 7°C chilled-water supply and 35°C inlet cooling air temperature at system flow rate and pressure
2. 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+
3. Operation current draw (OCD) per phase at design point - Measure under Evaporating Temp: 2°C | Condensing Temp: 50°C | Superheat: 5K | Subcooling: 2K
4. 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. Upgraded pump available on request.
5. Errors and Omissions Excepted.

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