

# HYDRA SERIES



GA35(D)-A-PP-HYD

The Gladiator Hydra specification provides ultimate level of protection for processes that are mission critical for your organisation.

**AQUA**  
**COOLER**

## KEY FEATURES

- > Built with world-market-leading component brands such as Emerson and Danfoss compressors and Schneider electrics.
- > Includes redundant refrigeration circuit and water pumps to minimise impact of any service outages
- > Laden with safety features, such as phase failure protection, flow meter alarm protection, high and low pressure protection, included as a standard feature in all Hydra Series chillers.
- > Hydrophilic-coated aluminium condenser fins with an optional upgrade e-coating option for additional corrosion protection.
- > Easy to read and use PCB which provides advanced information such as flow rates, pressures and temperatures.
- > Efficient brazed plate evaporator
- > 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.
- > Designed for and tested in Australian conditions

## SPECIFICATIONS

<b>Model</b>	GA35(D)-A-PP-HYD	
<b>Cooling Capacity</b>	kW	100
<b>Input Power</b>	kW	44
	Power	3PH/415V/50HZ
<b>Current Draw (A)</b>	Operation	81
	Maximum	180
<b>Refrigerant</b>	Type	R134a
	Charge (kg)	24
	Control Method	Expansion Valve
<b>Compressor</b>	Type	Scroll
	Number in Chiller	2
	Brand	Danfoss
	Power (kW)	16.0
<b>Condensor</b>	Type	Hydrophilic Aluminium fin with low noise rotor fan
	Cooling air flow	13000
<b>Evaporator</b>	Type	Plate Pack
	Tank Volume (L)	240
	Inlet/outlet Pipe	2"
<b>Water Pump Standard Option Stainless Steel #304 Pump / Pipes</b>	Avail Lift (m)	47
	Flow Rate (L/s)	5.56
	Model	CDMF20-4 x2
<b>Dimensions and Weight</b>	Length (mm)	2365
	Width (mm)	1800
	Height (mm)	2150
	Weight (Kg)	1620

## BENEFITS

- Using the advanced PCB, multi-chiller control options are available that allow benefits such as redundancy, control, remote start / stop and performance monitoring
- Internal buffer tanks ensure that temperature remains consistent under varying loads.
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- Dual integrated internal process pump ensures redundancy in case of failure.
- Dual refrigeration circuits minimises impact in case of any service interventions, protecting your process
- Extensive parameter settings to suit a variety of applications.

## SAFETY FEATURES

- Compressor internal protectors respond to over-current and overheating
- High- and Low-Pressure Protection
- Temperature Protection via High and Low Alarm
- Flow Meter Protection
- Phase Sequence or Missing Phase Protection
- Low Water Level Alarm Protection

### Quality Assured

All Aqua Chiller systems 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.



## 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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**CHILLER**