

HydroController Pool

Variable speed inverter designed for use in swimming pool installations

- **Variable Pump Speed**
- **Controls Pumps up to 11kW**
- **Single Phase Only, Three Phase Only and Single Phase to Three Phase Units Available**
- **Programmable Operating Parameters**
- **Built In Pump Protection (Dry Run, Over / Under Voltage, Low System Pressure, Output Over-Voltage)**
- **Energy Saving**
- **Air Cooled and Wall Mounted**
- **WiFi Connection with 7 Day Timer. Operating Speeds can be Scheduled for Different Times (Advanced Versions Only)**



Hydro **Pool**
controller



How Does It Work?

Mac3 *HydroController Pool* is a specific version of *HydroController* designed for swimming pool installations. Built around the wall mounted air cooled HCA design of *HydroController*, this unit enables significant energy savings by running the pool pump at reduced speeds when desired. A secondary fixed speed pump can also be controlled if needed.

Advanced versions of *Hydrocontroller Pool* include a WiFi feature which allows the user to configure the system either by direct connection to it's signal or via a WiFi router or Access Point allowing access from any internet location. A web-based application will allow the user to configure the weekly operating schedule.

Parameters are customisable through the onboard interface with LCD display, and up to 4 pre-programmed speeds can be used.

HydroController Pool is supplied in *Standard (Std)* or *Advanced (Adv)* versions of each type.

HydroController Pool Std is designed to control a single pump in a system. It is also able to control a second pump at fixed speed..

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HydroController Pool Adv can communicate with up to eight other HydroControllers via CANbus, a robust multi-master serial interface with high immunity to interference. The *Multimaster* mode allows **HydroController Pool Adv** units to self-appoint the role of 'Master'. Should the current master unit develop a fault, the master role will be taken by another unit and the system can continue to function as intended. This greatly improves fault tolerance and reduces maintenance and costs.

HydroController Pool Adv features 2 output relays and 2 auxiliary inputs which can be configured to suit varying needs as required.

Note: If this unit is to be installed with a cable length of more than 20 meters between the **HydroController Pool** and a pump, it is advisable that a *Mac3 ACL Filter* be added to remove the capacitive effect created in long cable lengths. Please ask about when ordering to discuss if this would be necessary for a particular project.

Electrical Specifications MM

Model	Voltage Input	Phase Current	Pump Voltage	Max Pump Power
HC-MM08-st	230 VAC	8A	230VAC	1.6Kw (1.5hp)
HC-MM08-adv				2.3Kw (2.2hp)
HC-MM-12-st		12A		1.6Kw (1.5hp)
HC-MM-12-adv				2.3Kw (2.2hp)

Electrical Specifications MT

Model	Voltage Input	Phase Current	Pump Voltage	Max Pump Power
HC-MT8-st	230 VAC	10A	~3 230VAC	2.2Kw (3hp)
HC-MT8-adv		6A		

Electrical Specifications TT

Model	Voltage Input	Phase Current	Pump Voltage	Max Pump Power
HC-TT10	150 - 400VDC	10A	~3 230VAC (Delta)	2.2Kw (3hp)
HC-TT06	300 - 750VDC	6A	~3 400VAC (Wye)	
HC-TT11		11A		4Kw (5.5hp)
HC-TT15		15A		5.5Kw (7.5hp)
HC-TT18		18A		7.5Kw (10hp)
HC-TT25		25A		11Kw (15hp)

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Features	
HCW	170x190x360 mm
HCA 2.2 - 4 Kw	170x243x350 mm
HCA 5.5 - 11 Kw	185x243x390 mm
HCW	4 Kg
HCA 2.2 - 4 Kw	5.6 Kg
HCA 5.5 - 11 Kw	8 Kg
Mounting	Wall Mounted Vertical, In Free Air
Cooling	Air
Ambient Temperature	5°C – 40°C
Display	2x16 LCD
Ingress Protection	IP65
Output Frequency	0 - 100 Hz (Resolution 0.01Hz)
Acceleration Time	0.7 – 5 Seconds
Deceleration Time	0.7 – 5 Seconds
Programmable Pressure Range	0.3 – 7.5 Bar (± 0.2 Bar)
Electrical Safety	EN60730
Standards Compliance	EN61000-6-3 EN61000-6-4
Pump Protection	Dry run, Over/Under-voltage, Short Circuit, Over-current, Over Temperature, Pressure Failure, Sensor Failure, Water Hammer

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