

# HYDROCONTROLLER-HCA

**WIDE RANGE OF PROFESSIONAL INVERTERS,  
IP65 AND SELF-VENTILATED, VERSIONS FOR SINGLE  
PUMP AND FOR BOOSTER SETS, POWERS UP TO 15HP.**



HydroController HCA adjusts the pump speed based on water demand, reducing energy consumption and preserving the pump over time. It provides constant pressure at different flow rate demands, and guarantee pump and sistem security thanks to integrated protections.

Specially designed for water and irrigation systems in multiple contexts, HCA is available from 1.5 to 15.0 HP, both single and three-phase, and in two versions: Standard and Advanced.

The former for single pump or two pumps (one of which is fixed speed), while the second for booster sets up to eight pumps (one inverter per pump) with master-slave, multi-master configuration.

Installing HCA is simple, with power cables and pressure transducer already factory-mounted. The device is equipped with an LCD display (multilingual) and keyboard; the initial configuration is simple and quick, requiring the setting of only three parameters. In addition, WiFi connectivity (optional) is available for remote control via PC or smartphone, also allowing remote assistance.

## CERTIFICATIONS



## DESIGNED FOR



Pumps



Residential



Industry

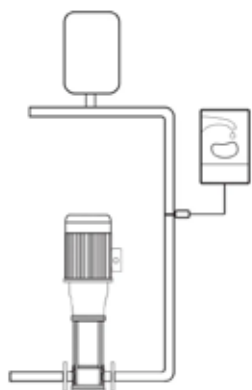


Clear water





## APPLICATIONS



- Domestic, commercial, and industrial water supply: Adjustment of pump speeds to ensure a constant water flow and reduce energy consumption, both for new and existing installations,
- Irrigation systems: Control of pumps for the irrigation of parks, gardens, sports fields, agriculture, ensuring optimal water distribution.

HydroController HCA offers effective pump management, significant energy savings, and longer pump life, ensuring reliable and safe operation in various water supply and irrigation applications.

## TECHNICAL SPECIFICATIONS

|                                      |                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting</b>                      | Wall-mounted                                                                                                                                                                   |
| <b>IP Protection Rating</b>          | IP65                                                                                                                                                                           |
| <b>Cooling</b>                       | Built-in cooling fan                                                                                                                                                           |
| <b>Operating Temperature</b>         | 5÷40°C                                                                                                                                                                         |
| <b>Display</b>                       | LCD 2 lines 16 characters                                                                                                                                                      |
| <b>P.Set Range</b>                   | 0.3-10 bar (0.3-25 bar with optional sensor)                                                                                                                                   |
| <b>Protections</b>                   | Dry run, high/low supply voltage short circuit, overcurrent, overtemperature, insufficient pressure, pressure sensor failure, water hammer.                                    |
| <b>Versions and Powers</b>           | see catalog and price list                                                                                                                                                     |
| <b>Dimensions and Weights</b>        | MM/MT: 40x26x19cm- 6 kg<br>TT (3.0-5.5hp): 40x26x19cm- 6 Kg<br>TT (7.5-15hp): 40x28.5x25.5cm- 11/12 Kg                                                                         |
| <b>Inputs and Outputs</b>            | Standard version MM/MT/TT up to 5.5HP:<br>1 input and 1 output<br>Advanced version MM/MT/TT up to 5.5HP:<br>3 inputs and 3 outputs<br>TT (7.5-10-15hp): 2 inputs and 2 outputs |
| <b>WIFI</b>                          | optional, to be mounted in MAC3                                                                                                                                                |
| <b>Electrical Safety</b>             | EN60335                                                                                                                                                                        |
| <b>Electromagnetic Compatibility</b> | EN61000                                                                                                                                                                        |

| MODEL    | MAX. PUMP POWER |      | SUPPLY VOLTAGE | PUMP VOLTAGE | RATED CURRENT | VERSION                     | ITEM    |
|----------|-----------------|------|----------------|--------------|---------------|-----------------------------|---------|
|          | KW              | HP   |                |              |               |                             |         |
| HCA MM08 | 1,1             | 1,5  | 1x230V         | 1x230V       | 8A            | Single Pump                 | VHDA113 |
| HCA MM12 | 1,6             | 2,2  | 1x230V         | 1x230V       | 12A           | Single Pump                 | VHDA114 |
| HCA MT10 | 2,2             | 3,0  | 1x230V         | 3x230V       | 10A           | Single Pump                 | VHDA212 |
| HCA TT06 | 2,2             | 3,0  | 3x400V         | 3x400V       | 6A            | Single Pump                 | VHDA311 |
| HCA TT11 | 4,0             | 5,5  | 3x400V         | 3x400V       | 11A           | Single Pump                 | VHDA312 |
| HCA MM08 | 1,1             | 1,5  | 1x230V         | 1x230V       | 8A            | Multi-pump* (Up to 8 pumps) | VHDA143 |
| HCA MM12 | 1,6             | 2,2  | 1x230V         | 1x230V       | 12A           | Multi-pump* (Up to 8 pumps) | VHDA144 |
| HCA MT10 | 2,2             | 3,0  | 1x230V         | 3x230V       | 10A           | Multi-pump* (Up to 8 pumps) | VHDA242 |
| HCA TT06 | 2,2             | 3,0  | 3x400V         | 3x400V       | 6A            | Multi-pump* (Up to 8 pumps) | VHDA341 |
| HCA TT11 | 4,0             | 5,5  | 3x400V         | 3x400V       | 11A           | Multi-pump* (Up to 8 pumps) | VHDA342 |
| HCA TT15 | 5,5             | 7,5  | 3x400V         | 3x400V       | 15A           | Multi-pump* (Up to 8 pumps) | VHDA343 |
| HCA TT18 | 7,5             | 10,0 | 3x400V         | 3x400V       | 18A           | Multi-pump* (Up to 8 pumps) | VHDA345 |
| HCA TT25 | 11,0            | 15,0 | 3x400V         | 3x400V       | 25A           | Multi-pump* (Up to 8 pumps) | VHDA346 |

\* 1 inverter for pump

