



Installation and Maintenance Instructions

Hydor MSC Variable Speed Controller

THESE INSTRUCTIONS MUST BE READ FULLY BEFORE COMMENCING INSTALLATION

Code	Supply	Max. Peak Current	H x W	Mounting
MSC3.0	230V/1Ph/50Hz	3.0 Amps	147 x 88 mm	Surface Mounted

DESCRIPTION

Variable speed fan controller suitable for use with single phase units.

GENERAL

It is important these Installation and Maintenance Instructions are fully adhered to.

Upon receipt, the equipment should be visually inspected to check for any damage.

Full details of the unit supplied are shown on the product nameplate. If in doubt about any detail contact HYDOR or its agents for clarification.

All electrical installation must be carried out by suitably qualified and competent personnel in accordance with all current statutory requirements.

These instructions cover only the HYDOR product and do not include the supply or installation of any safety equipment that may be required e.g. adequate guarding or protection from rotating parts and proper electrical isolation.

Any declarations made by HYDOR about product installation and safety, are dependant on the electrical equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region.

The controller is not suitable for corrosive or explosive atmospheres.

The installer should provide easy access to the controller to facilitate future maintenance.

The installer should ensure the controller is adequately supported.

This product is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the product safely.

Young children should be supervised to ensure that they do not play with the appliance.

INSTALLATION

Check the details on the motor rating plate to ensure that the correct power supply (voltage, frequency and phase) is available. An incorrect power supply will lead to permanent damage of the unit.

Check that the number, size and speed of the fan(s) can safely be controlled by the controller supplied.

Connections are provided for one (1) fan outlet. If more than one fan is to be controlled then a correctly wired external junction box should be used.

Install in a dry sheltered position.

Do not install in close proximity to a heat source or in areas of high humidity.

The maximum ambient temperature for the controller must not exceed 40° C (104° F).

WARNING! The controller must be isolated from the power supply during installation and maintenance.

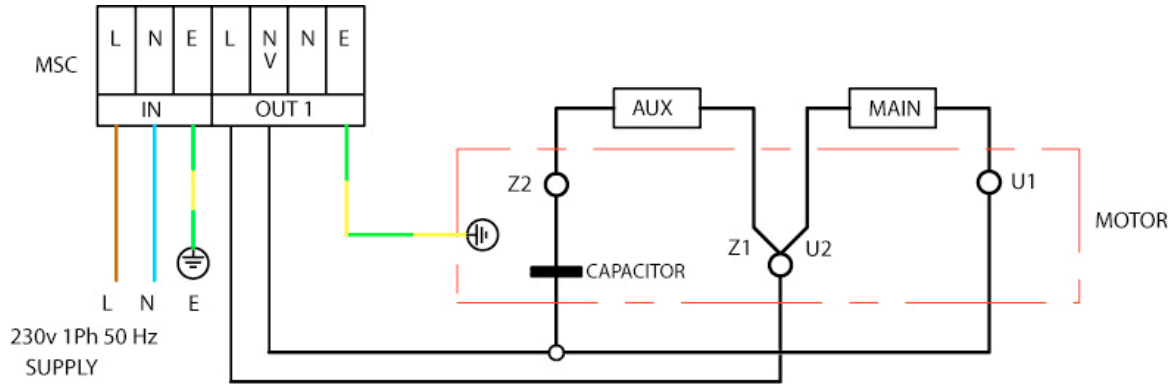
Remove the front cover of the controller by unscrewing the cover fixing screws. This provides access to mounting holes and electrical terminals.

The controller must be connected to a suitably rated fused spur.

Adjustment of the pre-set potentiometer, nearest the fuse holder, may be required to ensure that the fan starts and rotates on minimum speed setting. The other pre-set potentiometer should not need adjustment. Isolate the mains supply and carefully replace front panel.

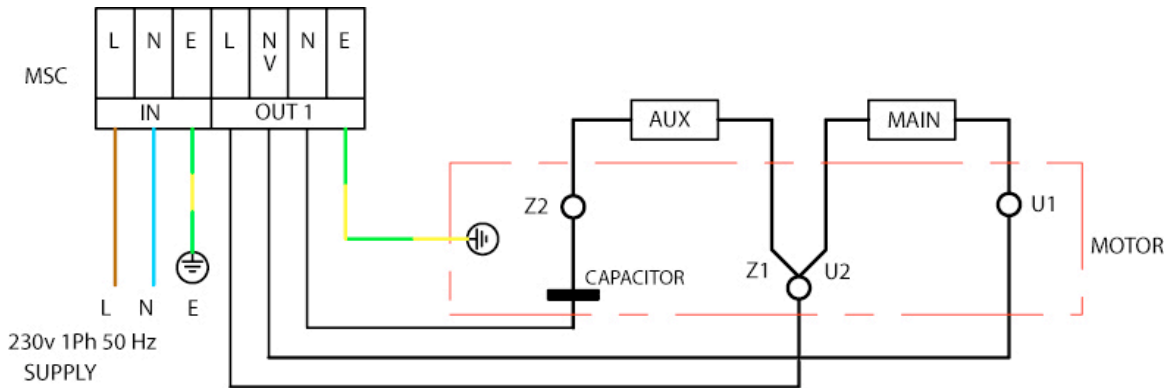
WIRING

Select the correct wiring diagram for the fan and controller supplied. All wiring and control equipment **MUST** comply with the latest IEE regulations, in particular 552-01-02/03. In the event that the wiring connections for the fan supplied do not correspond to diagrams shown, please refer to the fan instructions or contact HYDOR for further assistance.



HE FAN 315mm TO 450mm DIAMETER - 2 WIRE

CONNECTIONS SHOWN ABOVE ARE FOR ANTI-CLOCKWISE ROTATION THAT IS REQUIRED FOR NORMAL FORM 'A' AIRFLOW INTERCHANGE Z1 AND Z2 MOTOR CABLES FOR CLOCKWISE ROTATION, FORM 'B' AIRFLOW.



HE FAN 315mm TO 450mm DIAMETER - 3 WIRE

CONNECTIONS SHOWN ABOVE ARE FOR ANTI-CLOCKWISE ROTATION THAT IS REQUIRED FOR NORMAL FORM 'A' AIRFLOW. INTERCHANGE Z1 AND Z2 MOTOR CABLES FOR CLOCKWISE ROTATION, FORM 'B' AIRFLOW.

OPERATION

Switch on the controller by operating the red rocker On/Off switch. Adjust the speed of the fan by rotating the speed control knob anti-clockwise for LOW speed, and clockwise for HIGH speed. The fan is switched off by the illuminated rocker switch.

MAINTENANCE

Minimal maintenance of the Controller is required, but it should be kept clean and free from dust. Ensure that all connections are tight as possible as part of a routine maintenance programme.

GUARANTEE

HYDOR or its agents will, within a period of 1 year from the date of dispatch from their works, repair or, at its option, replace any goods, which are proven to have defects as a result of defective materials or workmanship. The goods MUST be returned to HYDOR, carriage paid, for examination.

Hydor Ltd.

8 Parkers Close, Downton Business Centre
Downton, Salisbury, Wiltshire
SP5 3RB, UK

TEL: +44 (0) 1725 511422 FAX: +44 (0) 1725 512637 email: info@hydor.co.uk

Hydor Ventilation Aust

42-62 Pound Road West
Dandenong South
Vic 3175

TEL: 1300 655 730 FAX: 1300 134 319 email: info@hydor.com.au

Hydor Ventilation SA

11 Ingrid Road
Montague Gardens
Capetown
7441

TEL: +27 (0) 21 552 1077 FAX: +27 (0) 21 552 2797 email: info@hydor.co.za