Installation and Maintenance Instructions
HV Range 800-1250

THESE INSTRUCTIONS MUST BE READ FULLY BEFORE COMMENCING INSTALLATION

Single Phase

Model	Speed r/min (Imp)	*Electrical Data*				Blade	Weight (kg)	Weight (kg) incl.Louvre
		Supply V-Ph-Hz	Power Watts	FLC Amps	Start Amp			
HV800	630	230-1-50	550	4.4	12.1	St.st	42	49
HV100	503	230-1-50	750	6.3	17.3	St.st	58	64
HV1250	485	230-1-50	1100	7.5	26.3	St.st	80	90
HV1250 Ali	485	230-1-50	1100	7.5	26.3	Ali.	80	90
HV1250	540	230-1-50	1500	9.64	33.8	St.st	82	92

Three Phase

Model	Speed r/min (Imp)	*Electrical Data*				Blade	Weight (kg)	Weight (kg) incl.Louvre
		Supply V-Ph-Hz	Power Watts	FLC Amps	Start Amp			
HV800	630	400-1-50	550	1.5	4.5	St.st	42	49
HV100	503	400-1-50	750	2.0	6.0	St.st	58	64
HV1250	485	400-1-50	1100	2.8	8.4	St.st	80	90
HV1250 Ali	485	400-1-50	1100	2.8	8.4	Ali	80	90
HV1250	540	400-1-50	1500	3.2	9.6	St.st	82	92

1.0 GENERAL

1.1 It is important these Installation and Maintenance Instructions are fully adhered to.
1.2 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.
1.3 All electrical installation must be carried out by suitably qualified and competent personnel in accordance with all current statutory requirements.
1.4 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.
1.5 Any declarations made by HYDOR about product installation and safety, are dependent on the fan equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region.
1.6 The fan is designed for use in an ambient temperature of up to 50°C and up to 95% relative humidity. The fan is not suitable for corrosive or explosive atmospheres.
1.7 The installer should provide easy access to the fan to facilitate future maintenance.
1.8 The installer should ensure the fan is adequately supported.
1.9 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.

2.0 INSTALLATION

WARNING – The fan must be isolated from the power supply during installation and maintenance. The fan must be earthed in accordance with the local regulations.

2.1 Upon receipt, the fan equipment should be visually inspected to check for any damage. Ensure that the impeller is free to rotate.

2.2 If there are any queries concerning the fan equipment, HYDOR should be contacted prior to the installation.

2.3 Chains, eyebolts and D shackles are provided; as extras; for units which are to be suspended. Ensure that there is sufficient free air space, in front and behind the fan. A minimum of 2 metres is required.
If the unit is to be suspended, attach a chain to each eyebolt using separate D shackles for each chain. Form a "V" using two chains [one pair front and one pair rear] and two small D shackles attached to one large D shackle each. In some instances it will be beneficial to suspend the fan leaning slightly forward by adjusting the chains.
NOTE: In some situations using long chains may cause a pendulum effect to develop, an additional check chain or rope will prevent this.

2.4 Where the fan is to be installed in the wall of the building, ensure that access to the terminal plate and panel is available. Secure the fan unit using angled steel to fix to the surrounding wall.
NOTE: Ensure the unit is installed square, failure to do so may result in poor operation of the back-draught shutter blades

2.5 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 to the fan motor.

2.6 Refer to the appropriate wiring diagram. Ensure that all earth connections are made.

2.7 Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.

2.8 If the fan is being used through a speed regulation device, either electrically or electronically, refer to the relevant control device instructions.

3.0 START-UP

3.1 Before power is supplied to the unit, check that the wiring is correct as per the fan connection diagram.

3.2 At initial start-up, check that impeller rotation and airflow direction is correct.

3.3 Check that the motor amperage draw does not exceed the nameplate rating.

4.0 FAN MAINTENANCE

4.1 Inspection of the fan at least once every 6 months is recommended to ensure that the motor, fan blades, and supporting guards, are clean. Any build up of dust and deposits on the blades or guards should be removed using a non-abrasive cleaner.

4.2 All fastenings should be checked for tightness. In addition, all rotating items should be checked.

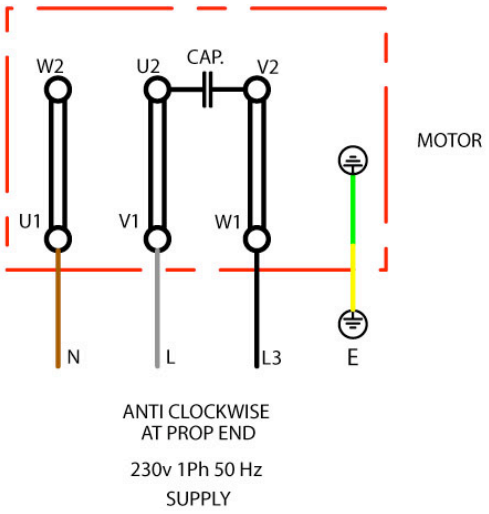
4.3 Bearings are of the 'sealed for life' type and will not need a detailed inspection.

4.4 Belt tension should be checked after 2-3 days use. Allow 15-20mm deflection for correct tension. Please note over tensioning will dramatically affect the longevity of the unit.

WARNING – Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated. Particular care must be taken when automatic switching controls are used.

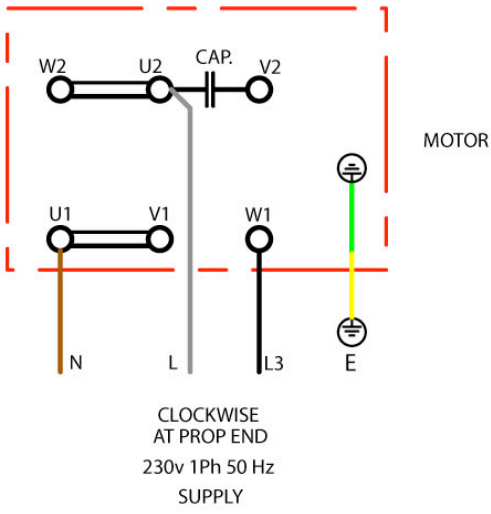
5.0 WIRING

(SINGLE PHASE)



ANTI CLOCKWISE
AT PROP END

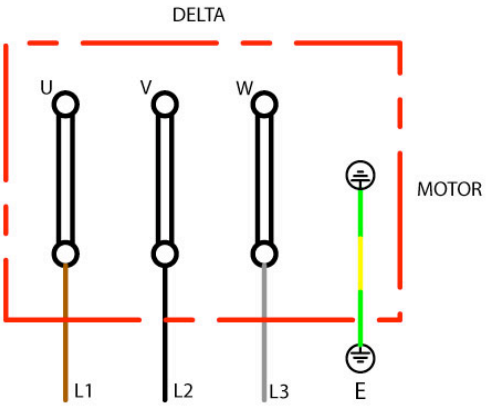
230v 1Ph 50 Hz
SUPPLY



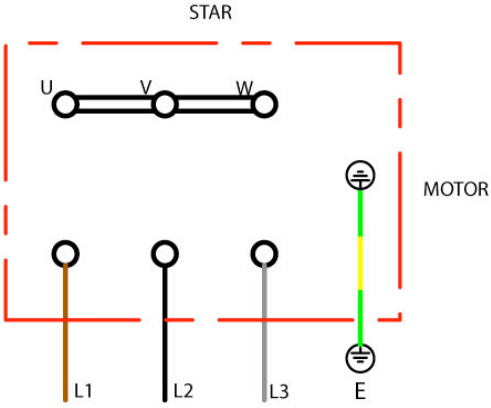
CLOCKWISE
AT PROP END

230v 1Ph 50 Hz
SUPPLY

(THREE PHASE)



400/420v 3Ph 50 Hz
SUPPLY



400/420v 3Ph 50 Hz
SUPPLY

6.0 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.

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