

HEVS Evaporative Cooling System

Installation and Maintenance Instructions.

THESE INSTRUCTIONS MUST BE READ FULLY BEFORE COMMENCING INSTALLATION.

Owner / installer: The life of this apparatus and its efficiency will be increased if its use and maintenance is carried out in accordance with these instructions and current statutory requirements. The installation and initial adjustments should be carried out by a qualified and competent technician. Hydor Limited should be consulted before substituting or fitting parts from another manufacturer. It is the responsibility of the installer to verify that the installation is in accordance with the following standards and the owner is given the current User's Manual.

Any modifications to the unit or its installation, even the smallest modification, change or elimination of security components or pieces that influence the efficiency or loss of the system, will result in the CE and ISO 22000 Certification and Hydor's warranty being cancelled.

1. 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 pump is designed for use in an ambient temperature of up to 50°C and up to 95% relative humidity. The pump is not suitable for corrosive or explosive atmospheres.

- 1.7 The installer should provide easy access to the unit to facilitate future maintenance.
- 1.8 The installer shall make sure the system is securely fitted.
- 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.
- 1.10 When the system has been checked and calibrated by the Hydor Technicians, they should explain the system, its operation and the various pressure settings for its efficient operation to its owner/user. These settings and readings should be tabulated and safely stored for future reference. It is also necessary for the system maintenance to be carried out, as outlined below.

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

2. Maintenance

- 2.1 Prevention of bacterial growth in the water is very important and checks must be regularly made.
- 2.2 The raw water used must be of drinking water standard and the optimum temperature must be below 20°C.
- 2.3 The water must not be standing water and should be regularly analysed.
- 2.4 The system must be regularly serviced and a Log Book kept of the system. This gives a weekly reading of the system when in use and should record the Humidity RH; Operating Pressure BAR; the Ambient Temperature; and be signed.
- 2.5 The system should be switched off and the water drained from the pipework during the winter months or when not being used for long periods to prevent the chance of freezing or bacterial growth.

3. Servicing

- 3.1 Servicing should be carried out every six months.
- 3.2 After the first 5 hours of operation the system should be checked to ensure it is operating correctly. Pressures and fixtures should be checked.
- 3.3 The oil in the pump should be replaced with 0.5 litres of SE 15W/40 Mineral Oil.
- 3.4 The system should then be serviced every 500 hours of operation or every year, whichever comes first.
- 3.5 The Basic Service is as follows:
 - 3.5.1 Make sure the system is safe, switch off the controlled and ensure that the water supply is closed.

- 3.5.2 Check the V-belt tension and adjust if necessary. Remove the top half of the "Belt Guard", adjust the belt tension by moving the pump. Replace the guard.
- 3.5.3 Change the filters. Release the three blue bulbs, removing the old filters and replacing with new. This procedure should be carried out whenever the Pressure Difference exceeds 1BAR.
- 3.5.4 Change the Oil in the Pump (as above).
- 3.5.5 Switch on the system and carry out an operations check.

Note Servicing should only be carried out by a trained and competent engineer or preferably by a Hydor Service Engineer.

Guarantee

Hydor or its agents will, within a period of one year from the date of dispatch from their works, at its option, replace any goods, which are proven to have defects as a result of defective materials or workmanship. The goods must be inspected by a Hydor official and if necessary returned, with a Returns Note Number, carriage paid, for further examination.

Hydor Ltd

Hydor

Unit 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

Web: www.hydor.co.uk

idealair group

Unit 1, Building 1, Sydney Corporate Park,
85 O'Riordan Street, Alexandria NSW 2015

Tel: +61 (02) 8073 3310

Fax: +61 (02) 8073 3320

Email: info@idealairgroup.com.au

AMS

11 Ingrid Road, Montague Gardens,
7442 Cape Town, Western Cape

Tel: +27 (0) 21 552 1077

Fax: +27 (0) 21 552 2797

HEVS Inst Issue 1: 02.10.15