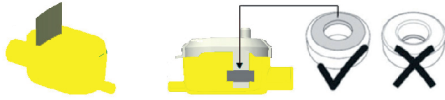
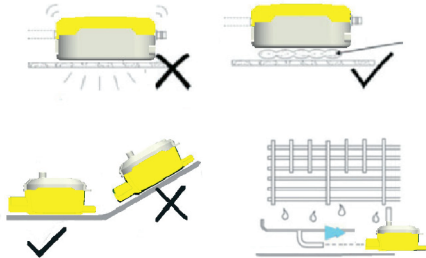


INSTALLATION

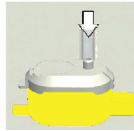
1. Ensure pump is disconnected from the main power source before installing or working on the pump
2. Ensure the magnetic float is installed with the grey magnet on the top of the float. Also make sure the inlet filter is inserted securely in the sensor



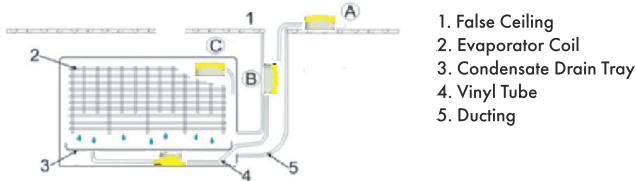
3. Secure the remote float sensor with the Velcro provided



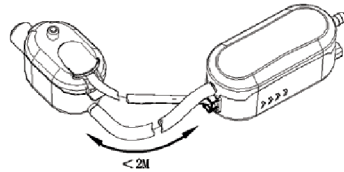
4. Fit the breather pipe onto the lid of the remote sensor



5. Install the pump unit above the ceiling within 6 of the remote sensor



6. Insert the drain pipe (tube) from the condensate tray into the inlet of the reservoir. If the drain pipe (tube) is larger than the inlet, use the large pipe (tube) adapter and secure with a connection to prevent it from working free and leaking water
7. Depending on the pumping head use a suitable length of 1/4 (6.0mm) ID reinforced tubing, ensuring the total length does not exceed the pumps maximum pumping head and horizontal run (see specification for details)
8. Secure the connection between the discharge tube and pump outlet with a suitable pipe clamp or cable tie



9. Ensure there are no sharp bends or kinks in the discharge hose
10. Note the flow direction of the pump motor

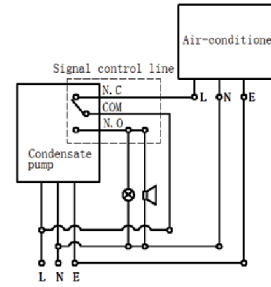


11. Wire the mains supply cable to a permanent power source

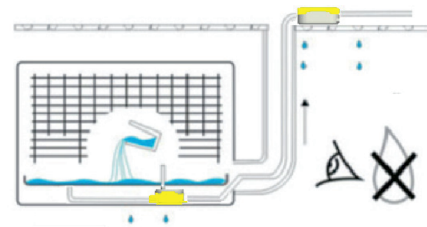
Brown	Hot [Live]
Blue	Neutral
Green / Yellow	Ground [Earth]

12. We recommend you use the alarm connections to disable the cooling equipment in the event the pump fails or is unable to remove the water due to obstruction in the discharge tube. The alarm contacts are normally closed and open on alarm conditions. The alarm contact cables are both coloured black.

WE CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED WHERE THE ALARM CONTACTS ARE NOT USED, THE DISCHARGE TUBE LENGTH EXCEEDS THE PUMPS SPECIFICATION OR THE DISCHARGE PIPE IS NOT SECURED OR RESTRICTED



13. To test the installation manually, fill the reservoir with cold water until the pump starts. Allow the pump to stop. Then fill the reservoir again until the pump starts again and water can be seen coming out the end of the discharge tube. Fill the reservoir a third time to ensure the discharge tube has no restrictions and the length is within the pumps specification.



SAFETY INFORMATION

1. Always work on the pump with the main power supply disconnected
2. The pump is for use with condensate water only
3. The pump is not suitable for use in swimming pools or marine areas
4. If the mains supply cable is damaged, only replace with the manufacturers power cable
5. NEVER use the pump if the main power cable is damaged
6. The magnetic float should always be facing upwards
7. The pump should always be mounted on a flat horizontal surface, facing upwards
8. The pump is acceptable for most environments. It is not recommended for environments where there is an oily or dusty atmosphere
9. The pump is suitable for indoor use only

MAINTENANCE

1. The pump requires regular maintenance
2. The reservoir should be removed and cleaned every 3-6 months
3. The float and filter must also be cleaned at the same time
4. We advise the best times to service the pump is before the spring season and after the autumn season
5. The best way to clean the pump is to use warm soapy water
6. Take care when cleaning the magnetic float and make sure the magnet is facing upwards when reinstalled
7. After all maintenance the pump must be re-tested as detailed in the installation section of this manual

WARRANTY

This product has a 1 year warranty period, against manufacturers defects. Repair or replacement will be given as long as:

1. The pump has been installed as per the installation instructions
2. The installation does not exceed the specification of the pump
3. The pump is consistently maintained as per the installation instructions

Components subject to wear and tear are excluded from this warranty.

FAULT FINDING & TROUBLESHOOTING

Reported Problem	Possible Cause	Solution
Pump fails to start with condensate level high and spilling over edge of inlet/reservoir	Debris stopping float mechanism from rising	Remove debris
	Inlet filter is blocked from preventing water from entering float chamber	Remove debris
	Main supply is not connected	Connect mains supply
Pump starts but fails to evacuate water	Debris has entered the float chamber and blocked the pump inlet	Remove debris
	Discharge hose has a restriction preventing water from being pumped away	Remove restriction on discharge hose
Pump starts but is noisy/pump cycles regularly	The float switch has debris keeping the float raised and the switch in the on position	Remove debris
	The end of the discharge hose is lower to the ground than the pump and the condensate in the discharge can syphon back into the reservoir	Use a tin dish to gravity fall the condensate at a higher level than the pump.
Overload/alarm contacts operate intermittently	There could be a restriction on the pumps inlet or outlet that is reducing the flow rate	Remove restriction or debris
The pump continually runs	The magnetic float is stuck in the upper position due to debris	Clear around the magnetic float to free it from its pump on position
	The check valve is stuck open letting water back into the reservoir	Check that there is no debris in the discharge line that's keeping the check valve open
	There is a build-up of debris in the reservoir preventing the magnetic float falling from the pump on position.	Remove any debris that has built up in the reservoir. Clean with hot soapy water

CODE / PART No	HAR-8 / PART No: 861017	HAR-15 / PART No: 861018
Input Voltage	100-230V AC 50Hz-60Hz	100-230V AC 50Hz-60Hz
Pumping Head	26 Feet [8 Metres]	26 Feet [8 Metres]
Max Flow Rate	3.2 G/hr [12ltr/hr]	5.28 G/hr [20ltr/hr]
Tank Capacity	1.18 fl oz [35ml]	1.18 fl oz [35ml]
Noise Level	19dBA	21dBA
Maximum Cooling Capacity	8kW (30,000btu/hr)	15kW (45,000btu/hr)
Ambient Temperature	0 - 50°C	0 - 50°C
Power Consumption	3W	3W

Horizontal Run	Performance				
	1ft [0m]	5ft [2m]	12ft [4m]	20ft [6m]	25ft [8m]
MODEL No: HAR-8 / PART No: 861017					
1m	3.2 G/hr [12ltr/hr]	2.64 G/hr [10ltr/hr]	1.84 G/hr [7ltr/hr]	1.58 G/hr [6ltr/hr]	1.32 G/hr [5ltr/hr]
5m	2.64 G/hr [10ltr/hr]	2.37 G/hr [9ltr/hr]	1.58 G/hr [6ltr/hr]	1.05 G/hr [4ltr/hr]	0.79 G/hr [3ltr/hr]
10m	2.37 G/hr [9ltr/hr]	2.11 G/hr [8ltr/hr]	1.32 G/hr [5ltr/hr]	-	-
15m	2.11 G/hr [8ltr/hr]	1.84 G/hr [7ltr/hr]	-	-	-
MODEL No: HAR-15 / PART No: 861018					
1m	5.28 G/hr [20ltr/hr]	4.75 G/hr [18ltr/hr]	2.64 G/hr [10ltr/hr]	2.37 G/hr [9ltr/hr]	2.11 G/hr [8ltr/hr]
5m	4.49 G/hr [17ltr/hr]	3.96 G/hr [15ltr/hr]	3.43 G/hr [13ltr/hr]	2.9 G/hr [11ltr/hr]	2.11 G/hr [8ltr/hr]
10m	4.22 G/hr [16ltr/hr]	3.2 G/hr [12ltr/hr]	2.64 G/hr [10ltr/hr]	2.11 G/hr [8ltr/hr]	1.58 G/hr [6ltr/hr]
15m	3.69 G/hr [14ltr/hr]	3.2 G/hr [12ltr/hr]	2.11 G/hr [8ltr/hr]	1.32 G/hr [5ltr/hr]	-

info@hartell.com
www.hartell.com
Hartell, Ingersoll Rand
100 E Graham Place,
Burbank CA 91502

WE ARE NOT LIABLE FOR ANY INJURIES OR CONSEQUENTIAL DAMAGES RESULTING FROM THE INCORRECT INSTALLATION OR USE OF THIS PUMP.

