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# Cascade

## 5000, 5500, 7000

INSTALLATION AND OPERATING INSTRUCTIONS.  
READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING INSTALLATION.

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**Attention: THERMAL PROTECTION - In order to help ensure your pump's long life and prevent possibility of damage it is fitted with automatic thermal overload protection which, in case of overheating, switches off the pump. If this occurs switch off the power at the mains supply to the pump and check for the cause. In most cases, this will be due to debris blocking the inlets of the pump or obstructing the impeller. Remove the obstruction and allow approximately 30 minutes for the pump to cool down and automatically reset before switching the pump back on. Note: The mains supply must be switched off before the pump will reset.**

The Hozelock Cyprio Cascade pumps are electrically operated and designed for use in garden ponds and waterfalls. The pumps do not use oil or grease for lubrication and can be used safely in ponds containing fish or plants. The motor consists of a sealed stator and watercooled rotor. All electrical components are isolated from the water.

### WARNING: SAFETY AND ELECTRICAL CONNECTIONS

1. The pump is supplied complete with 10m of 3-core electric cable, which is permanently connected and sealed to the motor.  
Under no circumstances should any repair be made to the cable.

**THIS PRODUCT IS DESIGNED TO BE PERMANENTLY WIRED TO THE MAINS SUPPLY IN A DRY WEATHERPROOF ENCLOSURE THROUGH A DOUBLE-POLE SWITCHED FIXED SPUR (DISCONNECTOR) TO BS 3676 - FITTED WITH A 3 AMP FUSE.**

2. If an extension cable is required, this should be connected to the end of the pump cable using a weather-proof cable connector. The joint must be positioned outside the pond in a suitably dry housing.

The extension cable should be of 3-core, 0.75mm<sup>2</sup> Polychloroprene rubber insulated cable (ref HO5 RN-F) and connected to the mains supply with a 3 amp fuse. **IT IS ESSENTIAL THAT THE PUMP IS CORRECTLY EARTHED AND THAT ALL CONNECTIONS ARE SECURELY MADE USING THE FOLLOWING CODE.**



The BROWN lead should be connected to the LIVE terminal, which may be marked with an 'L' or coloured brown or red. The BLUE lead should be connected to the NEUTRAL terminal, which may be marked with an 'N' or coloured blue or black.

The GREEN/YELLOW lead should be connected to the EARTH terminal which may be marked with an 'E' or coloured green or green/yellow.

3. The pump cable (and extension cable), should be positioned and adequately protected against damage especially where contact with gardening equipment (lawn mowers; forks etc), children and domestic animals may occur.
4. A 10mA or 30mA Residual Current Device (RCD) MUST be fitted to the mains supply.
5. For permanent installations to the mains supply, it is necessary to conform to the regulations of the local electricity authority which would include the use of plastic or metal conduit to protect the cable.
6. The supply cord fitted to this pump can only be replaced using special tools. In the event of the cable becoming damaged return the pump to Hozelock Cyprio Consumer services at the address shown.
7. CONSULT A QUALIFIED ELECTRICIAN OR LOCAL ELECTRICITY AUTHORITY, IF IN ANY DOUBT ABOUT WIRING TO THE MAINS SUPPLY.

### IMPORTANT

**1. ALWAYS DISCONNECT THE MAINS ELECTRICITY SUPPLY WHILST THE EQUIPMENT IS BEING INSTALLED, REPAIRED, MAINTAINED, OR HANDLED.**

2. Do not use the supply cable to lift the pump, as this may cause damage.
3. Do not operate or leave the pump in freezing conditions.
4. Do not allow the pump to run in dry conditions.
5. Check that the voltage marked on the pump corresponds to the Mains Supply.
6. We recommend looping a lifting cord through the pump handle when the pump is installed in deep water.
7. DO NOT OPERATE THIS PUMP WITHOUT A METHOD OF FILTRATION ATTACHED. USING THE PUMP WITHOUT A FILTER MAY INVALIDATE YOUR WARRANTY.

If the filter supplied is not suitable for your application, Hozelock Cyprio can supply an additional range of filters which may suit your needs. For more details call Hozelock Cyprio Helpline on (01844) 292002.

### PUMP INSTALLATION

#### Position

Construct a solid and level platform on which to place the pump. For installations using the fountain, the top of the platform should be 230mm (9 inches) below the water level.

A typical installation is shown for guidance in fig. 1.

### FOUNTAIN ONLY

1. Place the pump next to the pond and route the cable back to the mains supply.
2. Assemble the 'T' piece Adaptor and 3-Tier Fountain Head on the pump and place into position within the pond.
3. The fountain height can be regulated by rotating the Flow Adjuster Screw.
4. If required the 2-Tier Fountain Head can be used to achieve an alternative and higher display pattern.

### FOUNTAIN AND WATERFALL

1. Position the pump as previously described.
2. Remove the Blanking Cap and connect a suitable length of 25mm (1") bore hose by pushing directly over the threaded outlet boss.  
**NOTE:** Small diameter hoses 13mm (1/2") and 19mm (3/4") can be used by fitting the outlet adaptor into the outlet boss. If small diameter hose is used the flow will be reduced.
3. The combination of waterfall and fountain will reduce the fountain height that can be achieved.
4. Route the hose back to the waterfall.

### WATERFALL ONLY

1. For best results fit a suitable length of 25mm (1") bore hose directly on to the outlet of the pump. In some installations the water may not be deep enough and could cause the hose to become exposed above the pond surface. In this case fit the 'T' Piece Adaptor, remove the Blanking Cap and use the outlet boss with the Adjuster Screw fully tightened.  
**NOTE:** Smaller diameter hoses 13mm (1/2") and 19mm (3/4") can be used by fitting an outlet adaptor either directly on the chamber of the pump or 'T' Piece Adaptor.
2. Route the hose back to the waterfall.

### NON-SUBMERSIBLE INSTALLATIONS

MODELS 5000/5500 ONLY

1. Cascade pumps can be operated out of the pond. In this case the pump should ideally be positioned below the water level to avoid having to re-prime every time the pump is started (see fig. 2). If the pump is not positioned below the water level, a non-return valve (not supplied) should be fitted to the end of the inlet hose left in the pond.
2. Remove the filter from the pump.
3. Fit a suitable length of 38mm (1 1/2") bore hose on to the inlet boss of the pump using a suitable worm-drive clip.
4. Connect a hose to the outlet of the pump for the waterfall, as previously described.

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