



Established over 40 years ago, Blagdon are committed to producing a comprehensive range of high quality, easy to use, pond equipment. An ongoing programme of research and development ensures excellent performance and value for all their customers. This product excellence is demonstrated by Blagdon's award winning pump, Amphibious, considered by many to be the most reliable pump in the world. As a result Blagdon's reputation for quality is unrivalled amongst experienced pond gardeners and retailers alike.

The name you can rely on

Interpet Limited, Dorking Surrey, RH4 3YX
Blagdon - The Pond Masters

Please see your local retailer



POWERSAFE
THE PONDMASTERS GUIDE TO

Power in the Garden



Selecting power for the garden

When planning a pond or water feature you will almost certainly want to provide a power supply to the garden to run a pump, filter, lighting and other useful outdoor equipment. This is worth considering in the early planning stages. Installing power in the garden is a serious, but realistic DIY project that need not take long, or cost you the earth.

Taking power to the garden allows you to enjoy a fountain, maintain your water garden with a pump and filter and include attractive lighting effects. It is also practical for using with outdoor power items in sheds and greenhouses, such as; lights, strimmer, radio or power tools.

New laws in outdoor power, and the new Part P building regulations, mean that some of the old ways of taking power

to the garden are no longer appropriate or legal. All Blagdon Powersafe products comply with legal electrical safety standards.

Whether adding to an existing system, or starting from scratch, Blagdon have created a variety of practical garden electrics solutions based on our unrivalled knowledge of water gardening, and its requirements. Pioneers in water gardening product development over the last 40 years, Blagdon understands the needs of the modern gardener. With the Powersafe Switch Boxes already a proven success, the next generation of Powersafe products make installing power; safe, easy and convenient.

Making the most of your pond and garden.

POWERSAFE PRODUCTS COMPLY WITH LEGAL ELECTRICAL SAFETY STANDARDS. ELECTRICAL STANDARDS STATE THAT:

- ALL OUTDOOR POWER SUPPLIES MUST BE PROTECTED BY A CIRCUIT BREAKER.
- ALL OUTDOOR ELECTRICAL COMPONENTS MUST COMPLY WITH OUTDOOR WEATHERPROOF SAFETY STANDARDS.
- ALL POWER SUPPLIES ACROSS THE GARDEN MUST BE CARRIED BY METAL SHEATHED ARMoured CABLE.
- IF BURIED, WARNING TAPE MUST BE APPLIED.



Powersafe circuit breaker plugged into standard household 3-pin socket.

Hole drilled through door/window frame or wall & sealed with weatherproof putty.

Pre-wired plug & socket adapter & fixing bracket.

Metal sheathed armoured cable can be buried, fixed to fence, or run above ground.

Connects armoured cable to pre-wired 50cm rubber cable.

Powersafe triple outlet Switchbox (pre-wired to 50cm rubber cable).

Planning and Preparation

What do I need?

If you are starting from scratch and do not currently have a power supply to your garden, or if you currently have a power system installed that you wish to replace, then you will need to choose the Blagdon Powersafe Armoured Garden Power Supply Kit which is available in 5m, 10m, 15m or 20m kits and can be extended to a maximum of 40m using the Armoured Power Supply. When planning to install the Complete Armoured Power Supply Kit, or adapting your existing system, preparation is the first and most vital part of the process. Before committing to purchasing a specific size system or fixing any of the system in place, please read the preparation guidelines below (in conjunction with the illustration on page 1-2) to prevent time-consuming errors.

You can use the graph paper on page 9-10 to make notes. The measurements below are a guide to ascertain the size of the kit required for purchase. Please follow the full instruction supplied with the kit for the final measurements and installation.

STEP 1 - MARKING OUT

Decide the location of the mains socket to be used in the house or garage.

The rubber cable supplied in the kit is 5m long. Measure out 5m from a suitable mains power socket (house or garage) checking that there would be sufficient rubber cable to be fixed along the required route. The route should be to the exit point that you require into the garden. Allow for enough cable to be passed through either the wall or door/window frame allowing that the fixing

bracket will be attached to a suitable external point 30cm minimum above ground level. Mark the location with a pencil/pen mark. Keep in mind that the rubber section of the cable should be run for the minimum distance possible outdoors. If the 5m of internal rubber cable is insufficient in length



it may be replaced with a longer length of rubber cable to specification HO5RN 3 X 1.0MM, using the Blagdon Powersafe Plug and Socket System (see page 7).

STEP 2 - DECIDE ROUTE OF THE ARMoured CABLE

The armoured cable plug would be connected to the rubber cable socket at the location marked previously with pen/pencil. From the area pencil marked, measure out the route of the armoured cable using a piece of rope as a template. The armoured cable may be routed above ground, along fences or walls (using the armoured cable cleats provided in the kit) hidden through trees and shrubs or buried below ground at a minimum depth of 500mm (below a spade's depth). Remember to add the 1000mm to the total length if the cable is buried at any point, as well as any required for an upward lift to fix to a wall/fence.

Mark the location with a pencil/pen that the armoured cable is to finish, a minimum of 30cm above ground, for safe ground clearance. Mark on a suitable hard point or

post as the cable socket (end point) will be mounted onto a wall/post. Once you are satisfied that you have the full length of ground covered, as well as any additions considered, measure the length of your rope. Because the armoured cable section in the kit is permanently pre-wired at the set length dictated at purchase (5/10/15/20m), you must choose the next size up from the length of your piece of rope to ensure sufficient cable along the route. i.e.: if your rope length is 8.2m you should purchase a 10m kit. Do not forget to allow for any additional length required for burying the cable along the route.



STEP 3 - LOCATION OF YOUR SWITCHBOX

To ascertain the end of the system and the location of your Switchbox, add a maximum of 40cm above the previous point marked (end of the armoured cable). This is the maximum distance that the Switchbox can be located from the mains power socket.

The Switchbox should be situated where it is protected from: • Flooding • Extreme heat • Physical damage • Tampering by adults, pets and children

If the kit purchased is insufficient in length additional armoured cable sections are available in the Powersafe Armoured Power Supply (5/10/15/20m). The Powersafe armoured cable system can be safely extended to a maximum length of 40m of armoured cable. Please see full instructions in the Power Supply (instore or via our website) for extending a Power Supply.



WARNING: The Powersafe Plug and Socket System is rated to IP56 outdoor use only, the plug and socket system is not designed for submersion in water. The plug and socket connections must not be buried due to the potential danger of flooding and groundwater.

Other requirements:

If you currently use power products in the garden they must, by law, be run by a RCD. See the Blagdon Water Garden Circuit Breaker on page 9.

If you want to replace or increase the outlet options on your Switch box, see page 8.

If you currently have a power system installed that you wish to extend or adapt you must follow the instructions of the Power Supply/Kit or the Plug and Socket System (see in store, or instructions via our website).

Powersafe Armoured Garden Power Supply Kit

COMPLETE DIY GARDEN POWER SYSTEM

Choosing Blagdon's Powersafe Armoured Garden Power Supply Kit will provide you with the confidence that you are installing all the equipment you need for easy, safe and legal DIY garden power.

All the relevant components in the kit meet IP56 safety standards and it is a prefabricated modular system, meeting CE standards. The kit is so simple and quick to install, only basic DIY skills are required to take power from the house/garage to the garden. The kit comes with everything you will need to install it, and comes complete with very easy to follow, illustrated step-by-step instructions.

Tech Specs: Kit is available in 5m, 10m, 15m or 20m lengths

Each kit contains: Water Garden Circuit Breaker, 3 outlet Switchbox 5/10/15 or 20 metres of prewired metal sheathed armoured cable (depending on product size purchased), 5 metres of rubber cable + 50cm of rubber cable, as well as all fixtures and fitting accessories necessary. **MAX LOADING 1 x 1000W, 2 x 300W**



THIS BOX CONTAINS



Powersafe Armoured Garden Power Supply

FLEXIBLE DIY GARDEN ARMoured POWER

The Blagdon Powersafe Armoured Garden Power Supply has been designed as a safe, simple and easy way to install power in the garden. This power supply and the detailed, easy to follow, step by step guide, using the products indicated, has been designed to fully comply with IEE wiring regulations.

The Power Supply system is design to work with existing or new Powersafe Switchbox installations where more than 3 outlets are required. The individual elements can then be combined to create a kit that will run more outdoor power items.

The Power Supply can also be used to extend a new or existing power supply (up to 40m total). Please refer to installation instructions or see our website. Always use the system in conjunction with a Powersafe Water Garden Circuit Breaker for safe and legal outdoor power.



Tech Specs: Power Supply is available in 5m, 10m, 15m or 20m lengths

Each pack contains: 5/10/15 or 20 metres of prewired metal sheathed armoured cable (depending on product size purchased) 5 metres of rubber cable + 50cm of rubber cable, as well as a selection of fixtures and fitting accessories. **MAX LOADING 2200W**

THIS BOX CONTAINS



Powersafe Plug and Socket System

Designed for safe pond-side and garden electrical connections.

To take full advantage of flexible safe outdoor power Blagdon Powersafe provides a range of weatherproof plug and socket adapters and a twin pack to allow the use of interchangeable electrical appliances in conjunction with your Switchbox.



Each pack contains:
Weatherproof Plug and Socket,
live socket blanking cap
**TOTAL UNIT CAPACITY 2200W,
FITS CABLE 9-12MM**



Powersafe Weatherproof Plug Twin Pack

Designed for use in conjunction with Powersafe Plug and Socket System so interchangeable items can be easily added.

Each pack contains:
TOTAL UNIT CAPACITY 2200W, FITS CABLE 9-12MM



Powersafe Switchboxes

The range of Powersafe Switchboxes are not only the best quality switch boxes on the market with unique benefits delivered through innovation, but also the best value.

Designed for safe pond-side and garden electrical connections allowing you to install many electrical power items in your pond and garden.

EXTRA SAFE

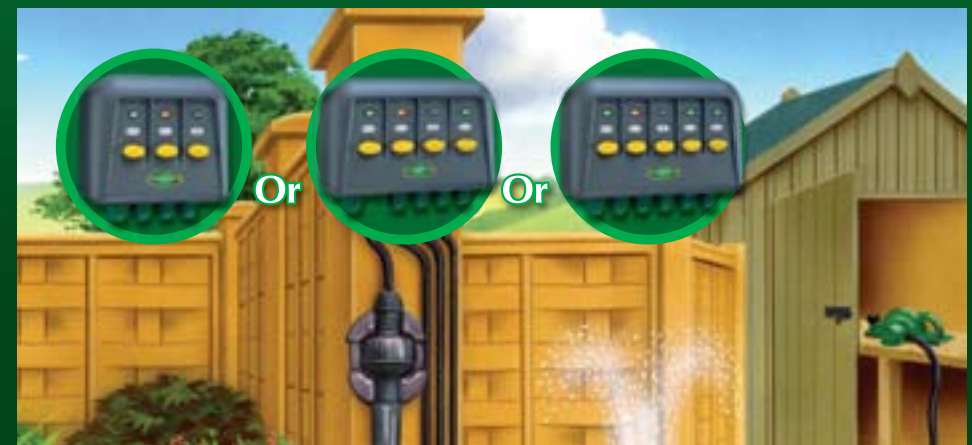
- Each Switchbox has at a glance unique power on, and power standby indicator lights.
- Individually fused outlets.
- Weatherproof for outdoor use (IP56).
- Clear power application identity labels for each switch included.
- Simple to install, clear instructions included.
- Large housing with simple to remove circuit board for easier wiring.
- Integrated wall or post mounting bracket and fittings included.



PS3 Three Way Switchbox:
Fused outlets for up to
1 x 1000W and 2 x 300W
TOTAL UNIT CAPACITY 1600W

PS4 Four Way Switchbox:
Fused outlets for up to
1 x 1000W and 3 x 300W
TOTAL UNIT CAPACITY 1900W

PS5 Five Way Switchbox:
Fused outlets for up to
1 x 1000W and 4 x 300W
TOTAL UNIT CAPACITY 2200W



Powersafe Water Garden Circuit Breaker

Gives you and your family additional protection from the risk of electrocution.

- 25 milliamp trip current activation provides early warning of pond equipment failure.
- Prevents household RCD activation on faults up to 30mA. Specific Water Garden Circuit Breaker working at 25mA means that your house mains electric supply (30mA) WON'T be cut, should you experience an outdoor electrical fault (between 25-30mA).
- Suitable for use with all makes of Water Garden and garden electrical products.
- Wiring free installation, simply plug in.

Tech Specs: Voltage: 240V/50H, Current: 13A, Trip Current: 25mA
Trip Speed: 30mS, IP40 Indoor Use



Shopping list

Powersafe Armoured Garden Power Supply Kit;

5m £ 10m £ 15m £ 20m £

Powersafe Armoured Garden Power Supply;

5m £ 10m £ 15m £ 20m £

■ Powersafe Water Garden Circuit Breaker £

Powersafe Switchbox

3 way £ 4 way £ 5 way £

■ Powersafe Plug & Socket System £

■ Powersafe Weatherproof Plug Twin Pack £

PLEASE SEE YOUR AQUATIC RETAILER FOR A DEMONSTRATION OF OUR WORKING DISPLAY

Measuring out/What do I require?