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0845 130 3300

BRIO 2000 - M

Automatic pump controller



FEATURES

The BRIO 2000M controller is designed to automate the operation of an electric pump by sensing a drop in pressure in the system (opening a tap or valve). The controller will turn off when the tap or valve is closed. The BRIO can be used in conjunction with shower pumps in installations where there is a "negative head", i.e. the shower head is above the water level in the cold storage tank, and also where the pumps are supplying several outlets at once e.g. body jets, or domestic water supplies. The BRIO comes complete with a pressure gauge, which allows the starting pressure value and system pressure to be checked. The unit will also protect the pump from dry running if the water supply should fail.

BRIO controllers are suitable for use in pairs to operate shower pumps on hot (max 65°C) and cold supplies, subject to the maximum electrical load (12 amps) not being exceeded,

The BRIO is designed for use on clean water. If there is the possibility of sediment, a suitable filter should be installed before the unit.

TECHNICAL DATA:

Power supply:	230v 50 or 60 Hz. Voltage tolerance +/- 10%.
Max switching current:	12 amps
Max. motor size	2 hp
Max total pressure:	10 bar
Max liquid temperature:	65°C
Operating pressure range	1 – 3.5 bar (14.5-50.6psi)
Max flow rate	80 l/min
Start flow:	2 – 2.5 Litres/min
Connections:	1" BSP male
Protection:	IP65
Pressure gauge	40mm dia 0 - 12 bar

SAFETY

Always disconnect the unit from the electric supply before carrying out any work on it. Installation should only be undertaken by qualified personnel in accordance with current regulations.

When used for swimming pools, ponds or fountains, a RCD with 30mA protection is required.

Warning: *The pipe system may be held under pressure when the pump is not running. It is recommended that a tap is opened to discharge the system before attempting any work.*

OPERATING INSTRUCTIONS

Once connected to the mains, the controller will initially start the pump for 15 seconds. The pump will next start when the pre-set cut-in pressure is reached within the pipe-work, usually by opening a tap. Note: it will also start the pump in the event of a leak in the pipe-work or a dripping tap or shower, as both of these will cause the pressure in the system to drop.

The BRIO has been designed to stop the pump after a delay of between 7 – 15 seconds when minimum flow conditions have been reached.

When used on whole-house installations we recommend the use of a small pressure vessel in the line to act as a buffer in the event of a tiny flow of water being required eg filling one glass of water. This will prevent the pump starting unnecessarily.

NOTE: *The BRIO will turn the pump off in the event of a lack of water in the suction pipe, to protect against dry-running. When this happens the RED FAILURE LED will light up. To restart the system once the water supply has been restored, push the RESET button.*

INSTALLATION

Mechanical:

The pump should be installed in accordance with manufacturer's instructions.

The BRIO controller is normally fitted directly onto the outlet of the pump although it is acceptable to fit it into the pipework anywhere between the pump and the first outlet. It is essential that the unit is fitted so that the moulded flow indication arrow matches the direction of flow of the system. The unit can be installed vertically or horizontally as required. It should not be used for any installation where the unit may be subject to more than 10 bar pressure.

The cut-in pressure of the BRIO is factory set at 1.5 bar which is suitable for the majority of applications. This pressure can be adjusted if required by removing the cover and turning the adjuster screw marked with “+” and “-” symbols. It will be necessary to adjust the setting when the highest outlet is more than 15 metres (up to a maximum of 30m) above the BRIO.

The pump pressure must be at least 0.6 bar higher than the BRIO set pressure for correct operation.

The BRIO unit incorporates a non-return valve. The installation of an additional check valve between the pump and the BRIO may cause operational problems and should be avoided whenever possible

When used with a self-priming jet pump, where the water level is below the pump, it is essential to install a foot-valve on the end of the suction pipe. Before turning on the power, fill the suction pipe and the pump with water. The unit should then start once the tap is opened.

Electrical:

Electrical installation should only be undertaken by qualified personnel in accordance with current regulations.

The BRIO power lead should be connected to a switched fused spur, fused as specified by the pump manufacturer. *The new 2004 version now has a fitted 3-pin UK plug. The supply lead is shorter with fitted eye terminals which should be connected to the pump in accordance with the manufacturer's instructions. This cable may be extended or replaced for installation remote from the pump.

For twin pump installations each pump should be installed individually and tested. The pumps should be then connected together in parallel. A connecting kit is available for use with Pedrollo pumps.

Pumps that require over 12 amps must not be switched directly used with this unit. If twin pumps are to be controlled the total current must not exceed 12 amps.

BRIO is guaranteed against defects of workmanship or materials for a period of 12 months from date of purchase provided the unit is installed and used in accordance with these instructions.

Tampering with the unit and/or removal of the serial number will immediately void the warranty.