

A decorative graphic consisting of several glowing blue wavy lines that intersect and flow across a dark blue background with a subtle grid pattern.

Brushless DC pump
installation and operating manual

Warranty conditions apply

1. We, Geysewise CC, warrant to you that, for a period of six (6) months from the date of purchase, the Geysewise Brushless DC Pump (the "goods") will be free of any defect.
2. If any defect in the goods is discovered by you within six (6) months from date of purchase, you can return the goods to our service centre or to one of our duly authorised service agents. We will then, at your option –
 - 2.1 repair or replace the goods; or
 - 2.2 refund to you the price paid by you for the goods.
3. Goods returned under this warranty must be presented to us in its original packaging together with all accessories.
4. We will refuse the return of any goods which has been –
 - 4.1 partially or wholly disassembled;
 - 4.2 physically altered;
 - 4.3 used in a manner contrary to any instructions provided by us; or
 - 4.4 permanently installed or attached and/or combined with other goods or property in any way.
5. We will not –
 - 5.1 repair the goods where the defect or damage to the goods is found to be a direct result of your negligence, recklessness or malicious behaviour; and/or
 - 5.2 be liable for damage caused to the goods as a result of wear and tear unless such damage manifests itself –
 - 5.2.1 within 12 months from date of purchase (where the goods have been used for normal family, personal or household purposes); or
 - 5.2.2 Six (6) months from the date of purchase (where the goods have been used for commercial or professional purposes).
6. Where we issue a refund under this warranty, we will deduct the charges we are allowed to deduct under the Consumer Protection Act, No 68 of 2008.

Components

Pump



Electronics in separate casing



Areas of use

In balanced pressure Solar Systems.

Installation precautions

Installation, maintenance and dismantling may only be performed by trained personnel in accordance with this instruction manual and safety instructions.

Use the Geysewise Brushless DC Pump only after first thoroughly reading and understanding this instruction manual and the safety instructions. In the event of any ambiguities regarding the installation and operation, consult trained personnel or contact our offices.

- Check that the body and parts have not been accidentally damaged during transit.*
- Do not use liquids that contain metallic substances, as the pump contains a strong magnet.*
- Before installation, ensure the mains power is switched off.*
- Before installation ensure the mains water is switched off and a stopcock is installed on either side of the pump. Ensure the stopcocks on either side of the pump is closed before installation.*

PV operated

The pump can be operated directly from a PV Panel. The PV panel rating should be 10 Watt, 12 VDC.

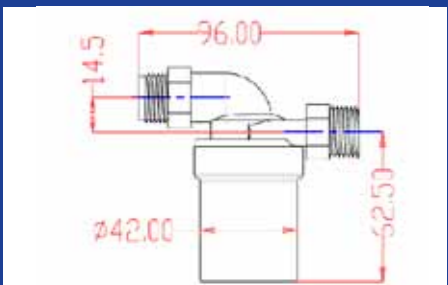
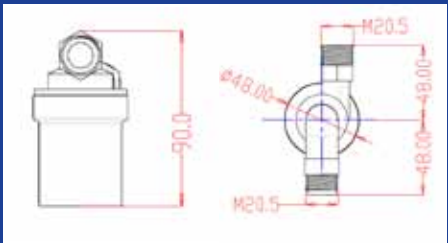
Main features

Specification	12V DC, Max 8Lpm, Max 2M, 7.5W
Soft start	2W Required
Voltage scope	7~ 17.7V, Rated 12V DC
System pressure	Operating = 600kpa Tested = 3500kpa
Max continuous working liquid temperature	90°C
Max temperature/minimum period	100°C
Flow rate	2L/min to 10L/min
Noise	35 DB (±10%)
Size	91mm x 47mm x 96mm
Colour	Black with brass front end

Materials of construction

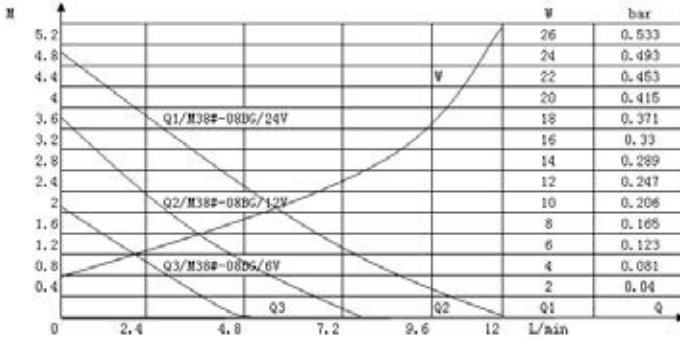
Aluminium outer body	PPS impeller
Brass front	Ceramic ferrite magnet
PPS inner chamber	Electronics in separate casing
Viton 'O' ring	

Dimensions



Performance

38#-08B Brushless DC pump character (single phase)



Exclusion of liability

The manufacturer cannot monitor the compliance to this manual as well as the conditions and methods during installation and operation.

Improper installation of the system may result in damage to the property and as a result, in bodily injury.

Therefore, we assume no responsibility for loss, damage or costs which result from or are in any way related to incorrect installation, improper operation, incorrect execution of installation work and incorrect usage and maintenance.

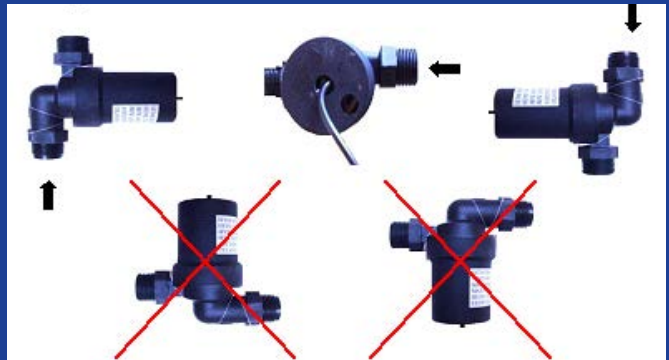
Please note that our normal warranty does not cover any natural disasters, for example:

- Flooding
- Lightning
- Earthquakes

The manufacturer reserves the right to make changes to the product, technical data or assembly and operating instructions without prior notice.

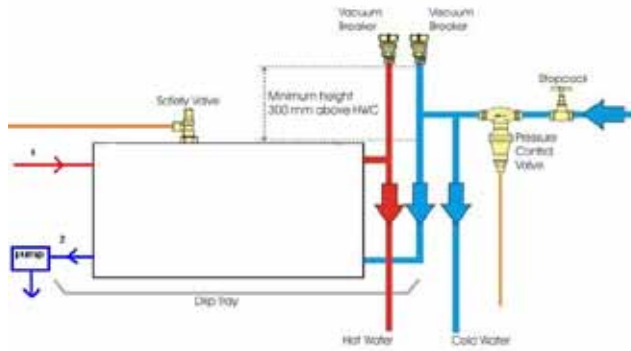
Installation

- It is important to observe the correct position of the installed pump to prevent the impeller operating in a dry state. Please see pictures below.
- It is preferred that the pump remains in a horizontal position, pumping upwards.
- It is acceptable for the pump to be mounted under the piping in a vertical position.
- The pump cannot be mounted over the piping in a vertical direction or any position of the motor over the pump chamber, as this can cause the pump to run dry and cause premature failure of the pump.



Incorrect installation may lead to software and pump failure

- It is recommended that the pump is installed:
 - Over the drip tray.
 - In a position of at least 30cm **LOWER** than the water level of the tank, otherwise air may enter the pump and cause damage.
- To minimise frictional resistance, the shortest piping possible with a minimum number of bends should be utilised on the inlet or suction side of the pump.
- Switch off water supply and electricity to system.
- An arrow at the top of the pump indicates the correct direction of the water flow. The installation of an isolation valve either side of the pump is important, should the pump need to be serviced.
- A non-return valve should be placed after the pump to keep the pipes primed.



1. From Collector
2. To Collector

Pump to be installed at lowest possible to bottom tank

- Make sure the system is filled with water and all air has been purged before starting the pump.
- **DO NOT** leave the solar system without power.

Electrical connection

- The installation must be carried out by a qualified electrician.
- The pump is rated 12 volts and the connection is polarity sensitive.
- Be sure that the power source conforms with the requirements of the pump, as the pump may be damaged in case of an incorrect power source.
- Red wire is positive.
- Black wire is negative.
- A minimum of 7 volts and a maximum of 17.7 volts are required to run the pump.
- For connection to the Geyserswise Max unit, follow the instructions below.

A 12V system is slightly different to a 220V system.



A 12V pump is powered by a 10Watt PV panel and 12V 4 Amp hour battery.



It is important to note that 12V systems are polarity sensitive. It is therefore important to check the polarity with a multimeter before you commence with an installation.



Steps

1
Plug in 12V link wire.



2
Connect link wire and battery positive.



3
Connect pump positive.



4
Connect negatives.

