EcoWatt 1, EcoWatt 1U
Installation and maintenance

SMEDEGAARD
OF DENMARK

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EcoWatt 1, EcoWatt 1U

Fields of application

EcoWatt 1 circulation pumps for hot water supply are installed in the circulation pipe to guarantee an instant hot water supply also at distanced tapping places. This is not only a significant contribution to the environment by saving energy and water, but also for the end user by reducing his operational costs. The comfort for kitchen and bathroom is considerably improved, having hot water available for instant use.
The pump can also be used in solar energy installations and as a de-stratification pump.

Safety

- *The surface of the pump might be hot.*
- *When venting the pump, it could result in a slight escape of hot water or steam!*

- *Pump should be wired in line with the existing regulations.*
- *When working on the pump, the electrical supply to the pump must be switched off..*

Installation

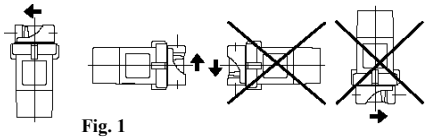

Fig. 1

We recommend that the pump is installed in vertical pipe work but only pumping upwards. Installation in horizontal pipe work is also acceptable.
To prevent reverse circulation a non return valve should be fitted on the discharge.
Isolating valves should be fitted on either side of the pump for ease of servicing.

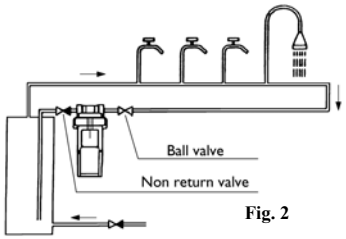

Fig. 2

Electrical Connection

Pumps should be wired in line with existing regulations.
Overload protection is not required with this range.

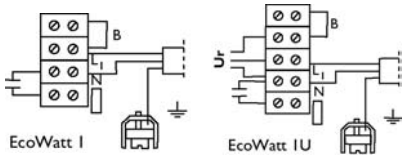

Fig.3

Commissioning (start up procedures)

The system should be flushed out to clear any foreign matter that may be lodged in the pipe work or pump.
Once the system has been filled, the pump must be vented by loosening the union nut. During venting the power supply must be switched off. Any air remaining in the system may cause pump noise. Repeat the venting procedure or start and stop the pump several times to remove air pockets.

Timer adjustment

The EcoWatt1 U is supplied with an integral timer unit (24 hour clock).
For time adjustment, turn the timer wheel clockwise until the indicator is in line with the actual time.
The working periods for the pump are adjusted by moving the adjustment pins towards the centre.
Each pin represents a working period of 20 minutes.
The function switch has three positions:

1. Left position, the pump works continuously.
2. Centre position, the pump is stopped.
3. Right position, the pump works to the adjusted running time.

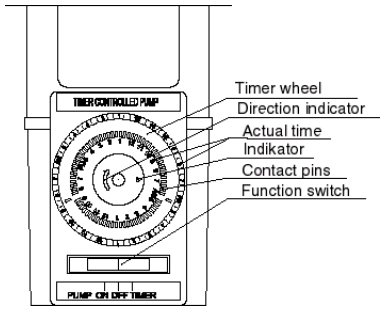

Fig 4

Fault finding

When the pump stops check the following:

1. Electrical supply.
2. Is the thermal overload in the pump activated? Wait for unit to cool down, when overload will automatically reset.

If the pump is still not working, switch off the power supply, close the pump isolating valves and remove the pump motor by unscrewing the union nut.
Check the pump casing and impeller for debris. If necessary remove the impeller as shown in fig.5. The impeller should never be removed, using only one screwdriver.
Reassemble the pump and tighten the union nut.
If the pump is still not working, replace the motor unit.

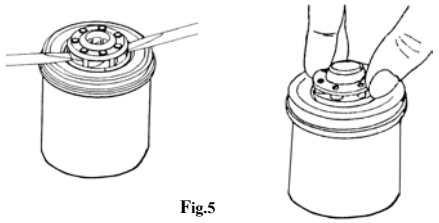

Fig.5

Declaration of conformity

We **T. Smedegaard** A/S, hereby declare that our product, EcoWatt 1 and EcoWatt 1U, is in conformity with:

- Council Directive 73/23 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.
- Council Directive 89/336 on the approximation of the laws of the Member States relating to electromagnetic compatibility.
- Council Directive 89/392 on the approximation of the laws of the Member States relating to construction and making of machines.

If further information is required, please contact **T. Smedegaard A/S** or their representatives whose addresses are listed at the end of this installation guide.

EN standards used:

EN 60555-2:1987, EN 60555-3: 1987
EN 50081-1 1992 and EN 55014: 1993

Glostrup, 1998.11.01.

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