

User Manual

CONTROL - STAR CS 300 / 400 VAC

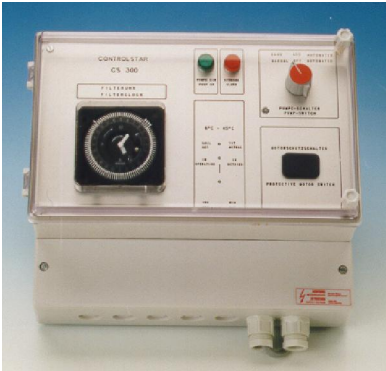


Illustration: 1

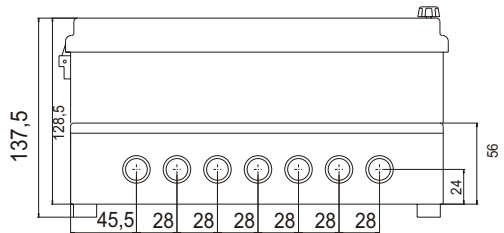
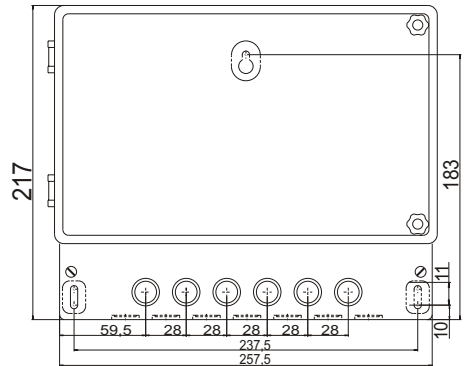


Table of Contents

Page:	
2	Safety Instructions
3	Use, General, Function
4	Front View
5	Electric Connection , Technical Data
6	Trouble Spotting

Any warranty is voided for damage consequent to ignoring this user manual, or in case the seals on the sealed parts are tempered with. We shall assume no liability for subsequent damage incurred thereafter. Please read this manual carefully before taking the device into operation.

User Manual

CONTROL - STAR CS 300 / 400 VAC



1. Safety Instructions:

- This appliance was constructed and checked in compliance with the safety standards for electronic appliances. When it left the factory it was operating according to these standards.
- In order to keep the appliance in a condition where safe operation is ensured the user is required to follow the safety instructions contained in this manual.
- Installation is to be carried out only by a certified technician or by an electronics company.
- All installations of electronic appliances are to be carried out in accordance with the locally or regionally valid regulations (e.g. ÖVE, VDE, etc.) or any other official regulations.
- When setting up the electric connection a separating device is to be installed in the fixed electric installation, so that is possible to separate all poles of the electric connection from the network with a contact opening of at least 3 mm.
- Please make sure that the voltage is fused correctly, and that a surge protector ≤ 30 mA is installed.
- The appliance is to be used only in dry rooms, where there is no occurrence of inflammable gases and fumes.
- The appliance must not be put into operation immediately after it was taken from a cold place into a warmer place. The occurrence of condensation might destroy the appliance.
- If the appliance shows visible damage, is not operating any more or if it has been stored in unfavorable conditions for a longer period of time, it can be assumed that safe operation is no longer possible.
At this point the appliance is to be secured against unintentional operation, if necessary it has to be taken out of operation.
- When opening the cover or removing components it is possible to uncover live wires or parts. Before making adjustments, or before carrying out servicing or maintenance work, or before exchanging parts or components the appliance has to be disconnected from all voltage carrying sources, if it is necessary to open the appliance. In case of adjustment, servicing, maintenance or if the appliance has to be repaired when open while carrying voltage, any work is to be carried out by a qualified **technician**, who is familiar with possible danger involved, and with the applicable regulations.
- Capacitors in the appliance might still be carrying voltage even if the appliance was disconnected from all sources carrying voltage.
- Installation or dismantling of the fitting is to be carried out without occurrence of pressure (i.e. pipes must be empty).
- Please note direction of flow in the fitting!

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User Manual

CONTROL - STAR CS 300 / 400 VAC



2. Purpose of use:

This is a control unit which controls the filter pump through a time clock. Any other "Purpose of Use" is not permitted!

3. Installation:

Install the control box to the installation holes in the appliance .

4. General:

PRAHER control devices are technical quality products, manufactured with utmost precision and implementing most modern production methods. However, should a case of justified complaint occur, we will respond as soon as possible to remove the cause thereof.

A warranty of 1 year is valid for the appliance. The warranty period starts with the day of delivery. The date is part of the serial number on the power compliance data label.

5. Starting the operation / Function:

Switch ② OFF

- U, V, W grounded

Switch ② MANUAL

- U, V, W live
- Control light ④ is on

Switch ② AUTOMATIC

- U, V, W and control light ④ display their functions according to the individually programmed filter period on the filter clock ①.
- Manual switch must be set to clock operation ③

Control light ③ comes on when thermo relay switches off (Motor current input exceeded).

Reset: Remove the black cover ⑤ and press red button.

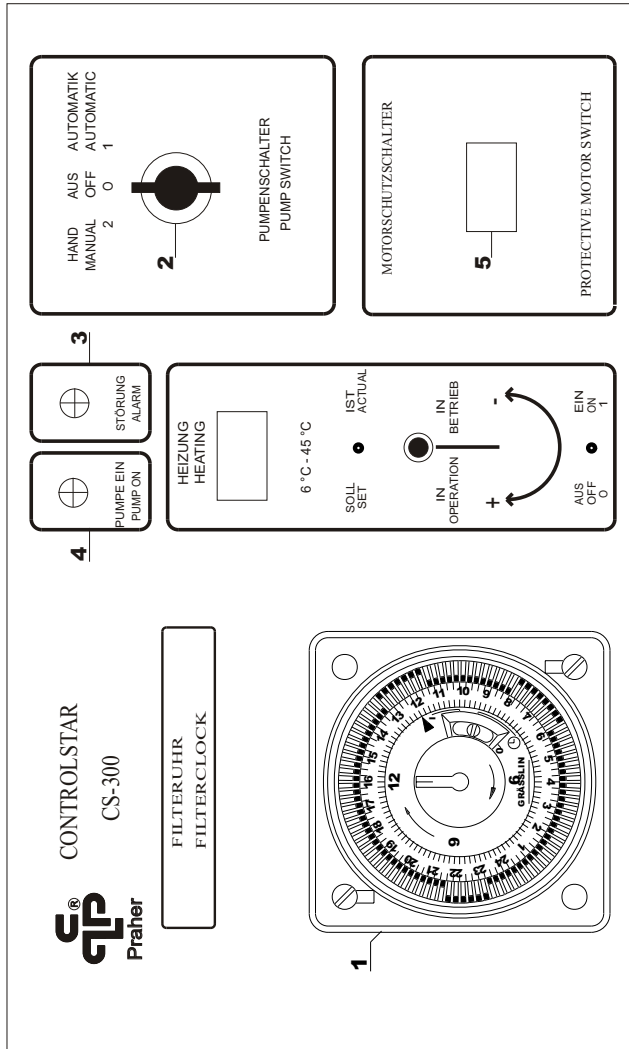
User Manual

CONTROL - STAR CS 300 / 400 VAC



5a. Front View:

Illustration: 2



User Manual

CONTROL - STAR CS 300 / 400 VAC



6 Electric Connection:

Input:



400 VAC 50 Hz

Pump:



400 VAC 50 Hz

I max 1,2 - 1,8 A
1,8 - 2,7 A
2,7 - 4 A
4 - 6 A

Thermo relay setting:

set white tip mark about 10% below nominal power of motor

Level switch (Dry-run protection) potential free :



When these contacts are interrupted, the filter pump will stop (water level, dry-run protection, ...).
This connection functions for manual as well as automatic operation.

Filterclock bridging (Mandatory start) potential free:



When these contacts are closed the filter pump will start immediately (Overflow container, solar power installation, ...).
This connection functions for manual as well as automatic operation.

Dosage:



Exit 230 VAC 50 Hz. Max. 2A 460 Watts
Switch parallel with the pump.

7. Technical Data:

Voltage: 230 / 400 VAC

Frequency: 50 Hz.

Power: max. 1250 / 1870 / 2770 / 4150 VA

Dosage: max. 460 VA

Fuse: IP 54

Clock:

- Day program
- 1 Segment --> 15 min.
- 150h Operative reserve

This product complies with the following EU - Guidelines

Electro magnetic compatibility 89/336/EWG

Low voltage guideline 73/23/EWG

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User Manual

CONTROL - STAR CS 300 / 400 VAC



8. Trouble Spotting:

- Read user manual carefully!
- **Appliance does not appear to function:**
 - Check operating voltage
 - Check fuse
- **Pump does not come on:**
 - Check fuse (Thermo relay)
 - Check whether clock segments are set to the correct time
 - Manual clock switch medium setting
 - Check connected appliances for their respective status and function.

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