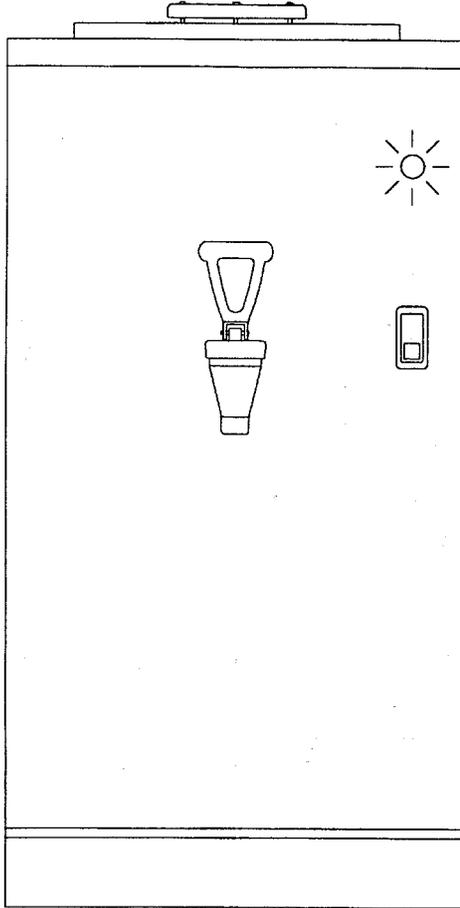


HOT WATER DISPENSER WITH CONNECTION TO THE WATER MAINS



OPERATING INSTRUCTIONS

VHH

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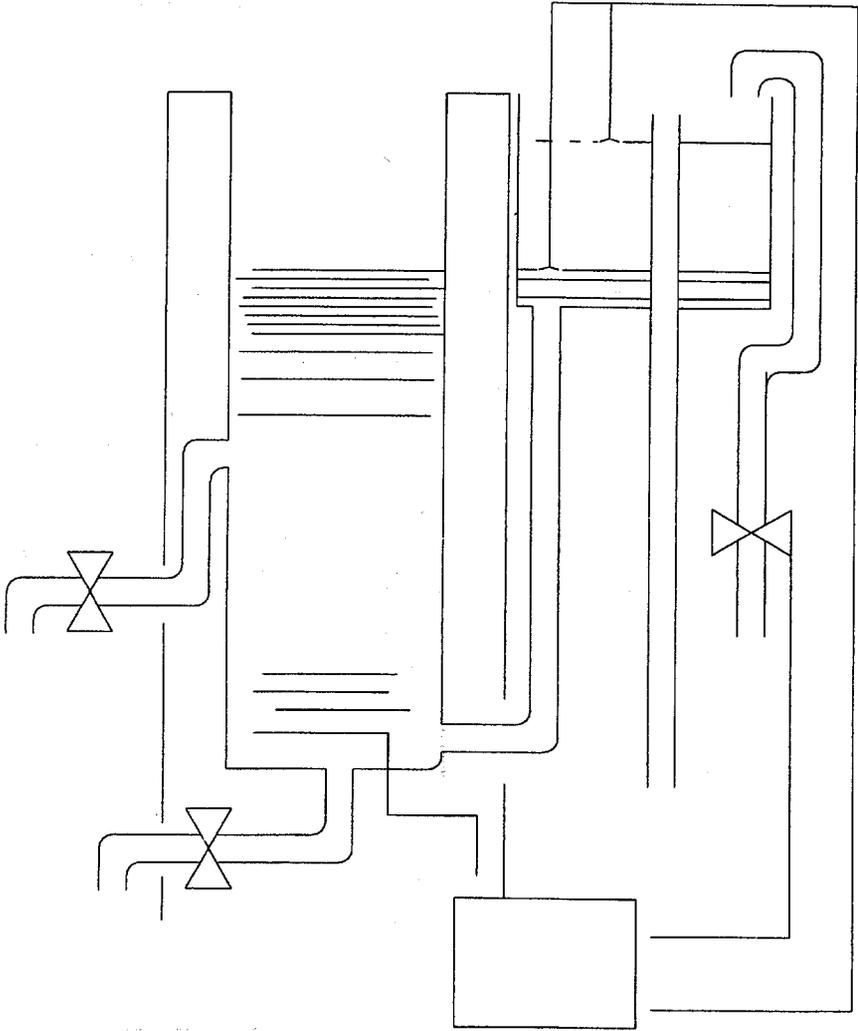


Fig. 1

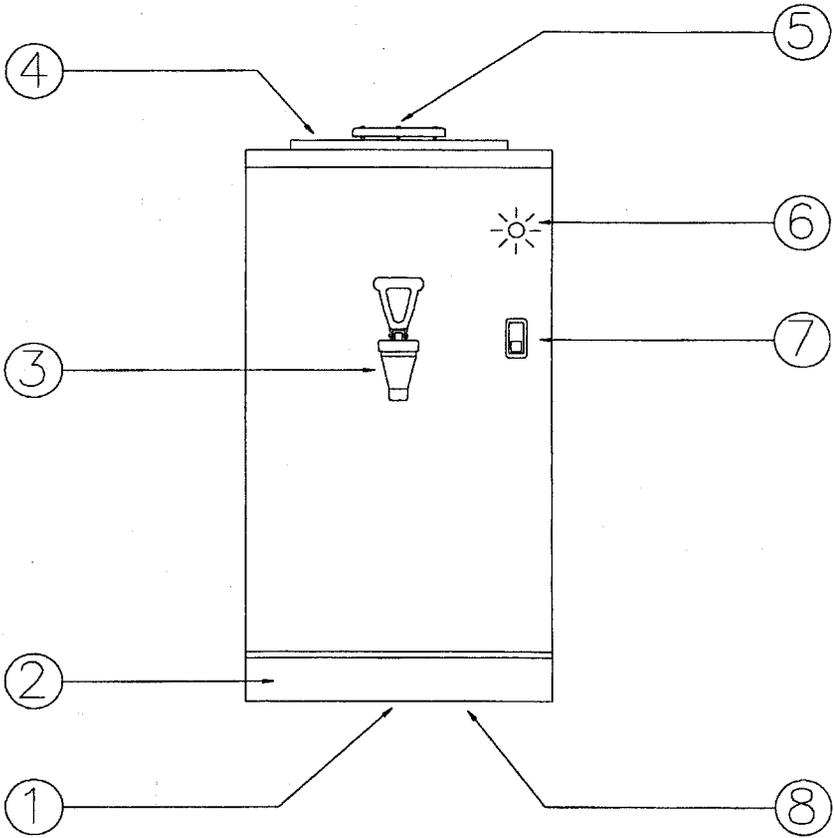


Fig. 2

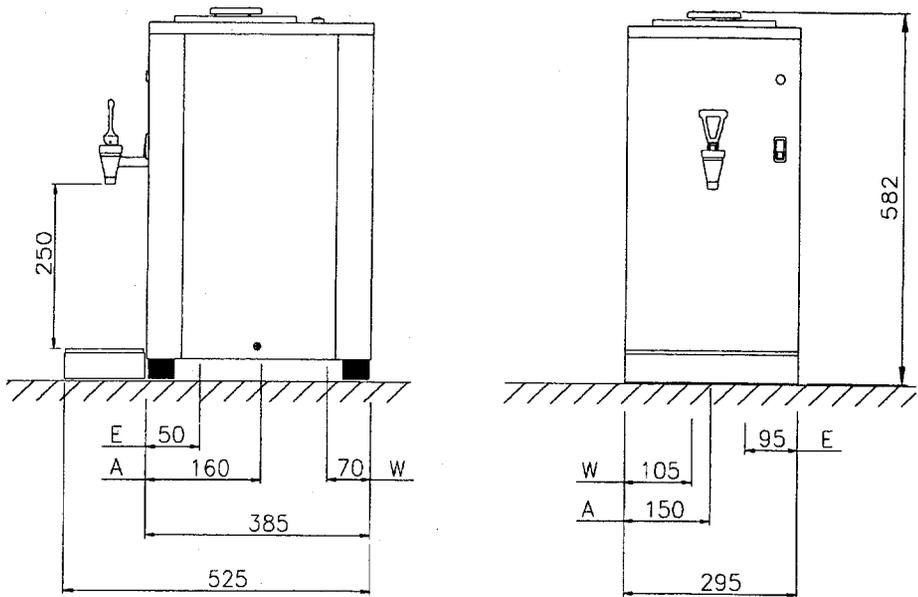


Fig. 3

OPERATING INSTRUCTIONS (ENGLISH)

To operate the coffee brewing machine properly and safely, read the following instructions carefully.

INTRODUCTION

The hot water machine, model HWA 50, shown in the figures 2 and 3 has an electronically controlled hot water system mainly consisting of a water boiler and a measuring system. In the water boiler the water is kept at a previously determined temperature. When the hot water is drawn from the system, the boiler is filled with cold water via the measuring unit.

The appropriate list of indication is shown below (fig. 2).

1. Drain
2. Drip tray
3. Hot water tap
4. Lid of the water boiler
5. Chemical inlet
6. "Water temperature too low" indicator
7. On/off switch
8. Power- and water connection

When the machine is delivered, the following accessories are supplied:

- Drip tray
- Funnel
- Connection hose
- RENEGITE (descaler)

For questions about these and other accessories we ask you to contact your dealer.

In figure 3 the main dimensions of the machine are given, while the technical data is given below:

1. Voltage	- 380-415V~3P+N	- 220-240V~	- 220-240V~3P
2. Rated power	- 4.2-5.0 kW	- 4.2-5.0 kW	- 4.2-5.0 kW
3. Fuses	- 10A (380-415V)	- 25A (220-240V)	- 16A (220-240V)
4. Water connection	- via water hose	- via water hose	- via water hose
Coupling nut	- 3/4"	- 3/4"	- 3/4"
5. Min. water pressure	- 0.5 Bar	- 0.5 Bar	- 0.5 Bar
6. Max. water pressure	- 10 Bar	- 10 Bar	- 10 Bar
7. Net weight	- 11.6 kg	- 11.6 kg	- 11.6 kg

Warning !

For safe operation of the water boiler, pay close attention to the following points:

1. **When the machine is in operation, some parts will get very hot.**
 2. If the machine is not in use for a longer period of time, it is advisable to disconnect the power and water supply.
 3. A small quantity of water always remains in the machine. Please, take this fact into account if the machine is stored or used in environments in which temperatures below 0°C may occur.
 4. If all water has been removed from the machine, the "Initial Operating Procedure" will have to be repeated.
 5. **Stay with the machine during maintenance operations (such as descaling).**
 6. When working with a strong detergent or descaler, it is most advisable to wear safety goggles (face protector) and gloves.
 7. After working with strong detergents or descalers, be sure to wash your hands.
 8. Prevent spillage of the descaler solution on to the outside of the machine, this can cause permanent damage to the exterior surface of the machine housing.
9. Never immerse the machine in water.
 10. Make sure that all repairs are carried out by qualified technicians.
 11. When the machine has to be opened for repair or maintenance, be sure to disconnect the electricity.
 12. The machine must always be connected to the mains in such a way that it can be easily disconnected.
 13. The machine should be connected to the water mains with the hose attached to a hand-operated tap.
 14. The machine must be earthed.
 15. When installing the machine, always use approved materials and parts.
 16. Use an oil-resistant connecting cable of sufficient dimension.
 17. Be sure to observe local regulations and standards when installing the machine.
 18. The manufacturer accepts no liability for any damage resulting from installation, use or maintenance activities that have not been described in this manual.

INSTALLATION AND INITIAL OPERATING PROCEDURE

When installing and using the machine, follow the instructions given in **INTRODUCTION-Warning !**

Installation

The machine should be placed on a solid flat horizontal surface. Take care that the machine, once it is placed, can be connected to the electrical power- and the water supply. In the next part more detailed information will be given on how to connect the machine to the water- and power supply.

Connecting the water supply

The connecting of the hose to the machine is very simple.

1. Connect the connection hose with a tube support and the coupling nut to the connecting piece of the electromagnetic valve of the machine.

In the event of a spillage, wipe area affected dry, whilst observing the safety regulations as given in the Users Instructions. Directly afterward the area must be cleaned thoroughly.

9. Never immerse the machine in water.
10. Make sure that all repairs are carried out by qualified technicians.
11. When the machine has to be opened for repair or maintenance, be sure to disconnect the electricity.
12. The machine must always be connected to the mains in such a way that it can be easily disconnected.
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2. Connect the other tube support to the valve in the water supply.

Connecting the electric power supply

The machine as delivered is equipped with a connection cable with either three, four or five leads. This should be connected in a proper way to the supplying system.

To connect the 5 lead cable (5x1.5mm²) for the 380-415V~ 3 phase system to the mains the following has to be taken into account:

1. The green/yellow (earth) wire must be connected to the terminal marked with the letter "E" or by the EARTH SYMBOL (⊕) or which is coloured green or green/yellow.

- The blue (neutral) wire must be connected to the terminal marked with the letter "N" or the cypher "0".
- The other wires (coloured brown and black) must be connected to the terminals marked L1, L2, and L3 or "R, S, and T". (See figure 4)

To connect the 4 lead cord (4x1.5mm²) for the 220-240V~ 3 phase system the following should be regarded.

- The wire coloured green/yellow (earth wire) should be connected to the terminal marked with the character "E", the EARTH SYMBOL (\perp), or that has the green colour.
- The remaining wires coloured black, brown, and blue should be connected to the terminal marked L1, L2, and L3 or "R, S, and T". (See figure 5)

To connect the 3 lead cord (3x2.5mm²) for the 220-240V~ single phase system the following should be regarded.

- The earth wire, coloured green/yellow should be connected to the terminal marked with the EARTH SYMBOL (\perp), the character "E", or to which has the green colour.
- The wires coloured bleu should be connected to the terminal marked "N, 0", or which has the colour blue.
- The remaining wire coloured black or brown should be connected to the terminal marked with the character "P, L, or F". (See figure 6)

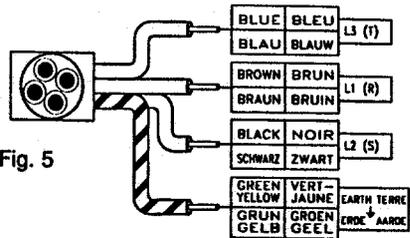


Fig. 5

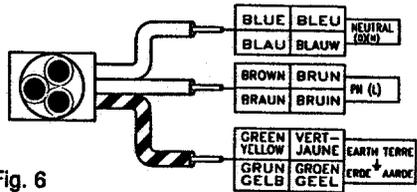


Fig. 6

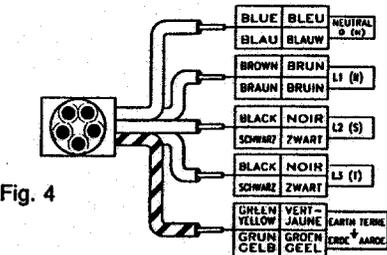


Fig. 4

Initial operating procedure

The following procedure is to be carried out when operating a new machine for the first time:

- Rinse the lid and inside of the hot water container and other parts (Using hot water and the brush supplied).
- Check if the drain (nr. 1, fig. 2) of the hot water boiler is closed.
- Remove the lid (nr. 4, fig. 2) from the hot water container.
- Pour about 5 litres of fresh water into the boiler.
- Switch on the boiler (nr. 7, fig. 2).
- Wait for the red "water temperature too low" indicator (nr. 6, fig. 2) to go out.
- Switch off the boiler.
- Replace the lid of the hot water container.

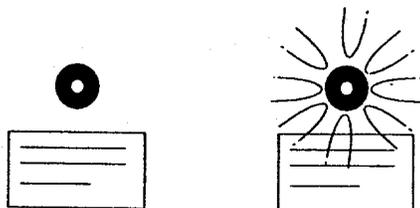
When the above mentioned instructions have been carried out the machine is ready for use.

NORMAL USE

To get hot water the hot water boiler must be switched on using the on/off switch (nr. 7, fig. 2) on the front panel of the machine. It then takes about 15 minutes for the water to be heated to the desired temperature.

When this temperature is reached the indicator above the hot water tap will go out.

Until the moment the indicator will light up again it is possible to tap water with the right temperature. (See figure 7)



Temperature correct

Temperatuur too low

Fig. 7

DESCALING

Warning !

Stay with the machine during maintenance operations, such as descaling. Before descaling the water boiler please, take the instructions given in **INTRODUCTION-Warning !** into account.

In the hot water boiler scale will accumulate. In order for the machine to function properly it is recommended to descale the boiler regularly. We recommend to use our descaler **RENEGITE** which is fully tested for the use of descaling our boilers.

The now following procedure is based on the use of 100 gr of **RENEGITE** (also read the instructions on the **RENEGITE** sachet):

1. Turn off the boiler with the on/off switch.
2. Tap off as much water as possible through the hot water tap.
3. Remove the lid from the hot water container.
4. Empty the hot water boiler totally via the special drain (nr.1, fig. 2) at the bottom of the machine. This drain can be opened by screwing off the plug. The plug can be reached by tilting the machine.
5. When the water flow is blocked or very poor, the blockage can be removed by placing the cleaning spring into the outlet and moving it to and fro until the water flow has been restored.
6. When the boiler is drained completely it may be possible to remove some of the bigger scale particles by hand.
7. Close the drain by screwing on the plug with gasket again.
8. Replace the lid on the hot water container.
9. Remove the plug from the chemical inlet (nr. 5, fig. 2) behind the lid.
10. Dissolve 100 gr of descaler in about 1 litre luke-warm water.
11. Pour the solution with the aid of a funnel, carefully into the chemical inlet (see fig. 8).
12. Switch on the boiler.
13. When the indicator light goes out remove about 3 to 4 cups of descaler-solution via the normal tap at the front with an interval of about 1 minute.
14. Switch off the boiler.
15. Carefully drain the descaler-solution out of the boiler via the special drain.
16. When the drain is closed the boiler should be switched on again.
17. Switch the boiler off again after about 5 minutes.
18. Drain the boiler, first via the normal hot water tap at the front and the remaining amount via the special drain.
19. Repeat instructions 16, 17, and 18 at least twice.
20. Switch on the boiler again.
21. Put the plug back in the chemical inlet.
22. Before tapping hot water for consumption, it is strongly recommended to tap about 1 litre first to flush the tap one extra time with hot water. This water should be disposed of.

The hot water boiler now can be used normally again.

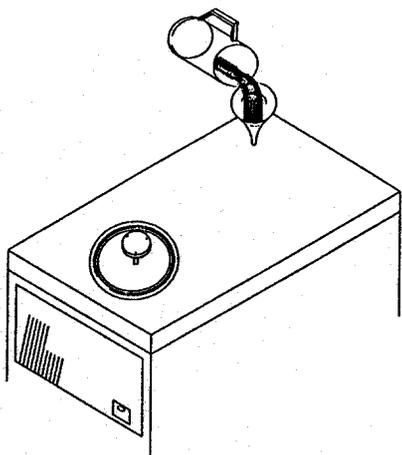


Fig. 8

LEAVE ALL OTHER MAINTENANCE- AND REPAIR WORK TO YOUR DEALER.

(SUBJECT TO MODIFICATIONS)

TROUBLE SHOOTING

When re-installing the machine, follow the instructions given in INTRODUCTION - Warning !

Some malfunctions that can occur during use of the machine can easily be overcome by the user. Irregularities in the water flow of the water system are most likely to be caused by scale, therefore it's best to check the machine on scale first. In case of possible defects on any of the electrical parts, it is advisable to first check on the wiring and the connections on voltage. In the next part a number of malfunctions and their remedies are given:

<u>Symptom</u>	<u>Possible Cause</u>	<u>Remedy</u>
<ul style="list-style-type: none">- No indicator lights are illuminated, and the machine does not function.	<ul style="list-style-type: none">- Electric supply is off.- The connection cord is defect.	<ul style="list-style-type: none">- Restore the electric power supply.- Disconnect the electric power supply, and contact your dealer.
<ul style="list-style-type: none">- The machine function indicators seem to work but nothing happens.	<ul style="list-style-type: none">- The water supply is closed.- The sieve in the el.magn. valve is blocked.- The water supply is functioning normally, and no other malfunctions can be found.	<ul style="list-style-type: none">- Open the valve, or deblock the supply.- Pull the sieve out with some tweezers, rinse it and put it back in place.- Turn off the el. power for about 10 secs then turn it on again, now try the machine again.
<ul style="list-style-type: none">- The machine stops functioning and water is running out of the machine in an excessive way.	<ul style="list-style-type: none">- The machine is defective.	<ul style="list-style-type: none">- Close the water valve and disconnect the power supply, then contact your dealer.
<ul style="list-style-type: none">- The red indicator "water temperature too low" lights up.	<ul style="list-style-type: none">- The temperature of the water in the kettle is too low.	<ul style="list-style-type: none">- Wait for the system to heat the water.
<ul style="list-style-type: none">- The drain is blocked and the cleaning spring will not go in properly to unblock it.	<ul style="list-style-type: none">- The amount of scale in the drain is very big.	<ul style="list-style-type: none">- Contact your dealer and let him descale the system properly.
<ul style="list-style-type: none">- Temperature of the water from the tap is irregular.	<ul style="list-style-type: none">- Too much water is tapped too fast (boiler does not get enough time to heat the water).	<ul style="list-style-type: none">- Wait for the "temperature too low" indicator to go out.

- Hot water splashes continually out of the boiler.
- Water stream from the tap is irregular.
- Water tastes scoure.
- The setting of the water temperature is too high.
- Air-bubbles have formed inside of the machine.
- Machine not rinsed well enough after descaling procedure.
- Contact your dealer and let him readjust the setting.
- Keep the tap opened for a moment or two.
- Rinse the machine at least twice.

In case of a mentioned malfunction the cause or the remedy appears to be incorrect, and all other malfunctions and defects:

DISCONNECT THE ELECTRIC POWER, CLOSE THE VALVE IN THE WATER SUPPLY AND CONTACT YOUR DEALER.

(When contacting your dealer in case of a malfunction always mention the type- and serial-number of your machine.)

ALSO, LEAVE ALL OTHER REPAIR WORK TO HIM.

VHH

Coffee brewing machines

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