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INSTALATION AND OPERATING INSTRUCTIONS

V1200

Mounting (water and electrical installation), inital operation and maintenance of this appliance must only be an authorized professional according to these instructions!

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1 Overwiev

1- Front cover
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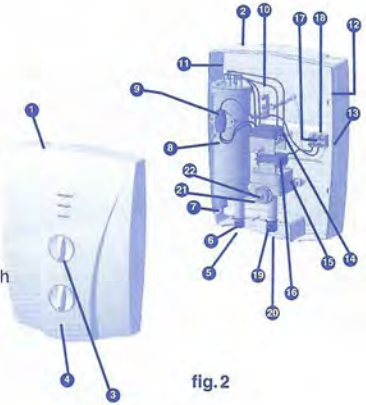


fig.2

2 Pack contents

1- Appliance unit
2- Flexible hose and fittings
3- Fuse and fuse box
4- Fixing screws and seals
5- Instructions, guarantee, etc.

fig. 1

3 Introduction

This book contains all the necessary fitting and operating instructions for V1200 electric instant water heater.

Please read all of these instructions carefully before installing and using the appliance and retain them for later use.

Please keep this bookfor future reference.

Installation,initial operation and maintenance of this appliance must only be conducted by an authorisedprofessional, who will then be responsible for adherence to applicable standards and installation regulations.

Care taken during the installations will ensure a long, trouble-free life from your electric instant water heater.

We cannot be liable for any damages caused by failure to observe these instructions.

4 For your own safety

Do not use the appliance until it has been correctly installed and unless it is in perfect working order.
The appliance must be completely filled with water before using it for the first time.

Each time the appliance is emptied (e.g. after work n the plumbing system, if there is a risk of frost or following repair work), the appliance must be completely refilled with water before it is used again.

The front cover of the appliance must never be opened before disconnecting the appliance from the mains power supply.
Never make technical modifications, either to the appliance itself or the electrical leads and water pipes.

The appliance is only suitable for domestic use and similar applications inside closed, frost-free rooms,and must only be used to heat drinking water.
This product is not suitable for mounting into steam rooms or steam cubicles.
Do not restrict flow out of the appliance by placing sprayhead in direct contact with your body.
If re-starting the appliance immediately after stopping, be aware that a slug of hot water will be expelled for the first few seconds.

Pay attention to the fact that water temperatures in excess of 43°C are perceived as hot,especially by children, and may cause a feeling of burning.

Please note that the fittings may be very hot,when the appliance has been in use for some time.
Isolate the electrical and water supplies before proceeding with the installation.
Do not take risks with plumbing or electrical equipment.

Do not operate the appliance if frozen, or suspected of being frozen. It must thaw out before using.

Do not operate the unit if the sprayhead or spray hose becomes damaged.
Do not operate the appliance if water ceases to flow during use or if water has entered inside the unit because of an incorrectly fitted cover.

In case of malfunction, disconnet the fuses immediately. In case of leaks, cut off the cold water supply immediately.Repairs must only be carried out by authorised professionals.

The appliance must be earthed!

5 Description of the appliance

The appliance is an open outlet (pressureless) electric instant water heater for decentral water heating at one or two taps situated in close proximity to one another, e.g. kitchen snik or washbasin or shower.

6 Technical specifications

Model name V1200
Electric supply 220-240V 50/60 Hz
Nominal power rating at 220V 6000W
Required conductor cross-section 3 x 4 mm²
Heating system Tubular heater
Capacity 0.2 litre
Rating pressure Closed outlet, 6 bar
Required water pressure to switch on 0,5 bar
Maximum hot water output at Δt=25°C 5 l/min
Inlet / outlet connections 1/2" BSP male thread
Net weight 2,1 kg
Protection class/type 1/IP25

Complies with the requirements of current Turkish and European safety standards for household and similar electrical appliances.Meets with Compliance with European Community Directives (CE).

7 Dimensions

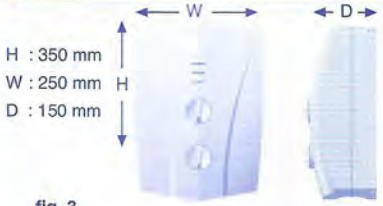
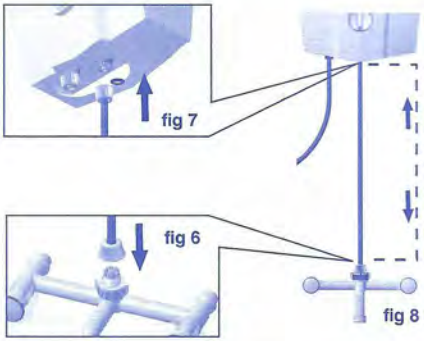


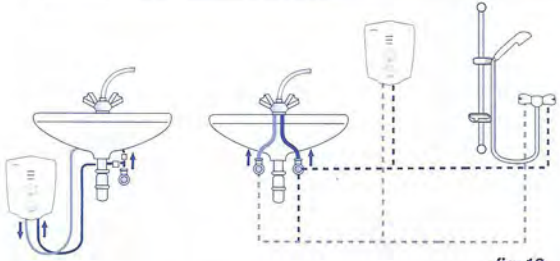
fig. 3

Plumbing connections:
•Before completing the connection of the water supply to the inlet of the appliance, flush out the pipework to remove all swarf and system debris.
•This can be achieved by connecting a hose to the pipework and turning on the mains water supply long enough to clear the debris to waste.
•Rinse water supply pipes thoroughly and turn of installation.
•Do not use jointing compounds on any pipe fittings for the installation.

Open-outlet (pressureless) connection:
•Measure the distance between the tap outlet and the appliance inlet to find the lenght of the inlet hose.(Fig.8)
•Cut off a piece of hose in this length from the supplied flexible hose by using a knife.
•Screw this hose with the supplied union nut to the appliance inlet (marked with blue) and tap outlet ensuring the supplied seals are in place at both ends of the inlet hose.(Fig.6, Fig.7)
•Do not use excessive force when making these connections.



Closed-outlet (pressure-type) connection:
Connect the mains water supply to the inlet of the appliance (marked with blue) and the hot water line to the outlet of the appliance (marked with red) with pressure-resistant flexible hoses ensuring the supplied seals are in place at both ends of the hoses.Open the water supply to the appliance and the taps to check all connections for leaks. Next, open and close the hot water tap several times until no more air emerges from the line and all air has been eliminated from the appliance. At this stage no water can flow through the unit.



Closed-outlet (pressure-type) connection

•The following must be observed!
•The statutory regulations of the respective country, as well as those of the local electricity and water supply companies.
•The specifications on the rating label within the until and the technical specifications.

Installation site:
•Refer to (Fig.4) and (Fig. 5) for correct sitting of the appliance.
•Position the unit where it will not be in direct contact with water.
•Position the unit vertically.
•For closed outlet (pressure-type) connection, in order to avoid thermal losses, the distance between the electric instant water heater and the tapping point should be as small as possible.
•Allow sufficient room between the ceiling and the appliance to access the cover top screw.
•Best performance is guaranteed at a flow pressure of > 2 bar, avoiding pressures exceeding 6 bar.If the stated flow rates are not available, it may not be possible to archieve optimum performance from the unit throughout the year.
•If it is intended to operate the appliance at pressures above the maximum or below the minimum stated, contact Central Customer Service
•Department for advice.
•An additional stopvalve (complying with water regulations) must be fitted in convenient position in the mains water supply to the electric instant water heater as an independent means of isolating the water in order to carry out maintenance or servicing.
•The water supply can be taken from acold water storage cistern and must be an independent supply to the appliance only.

Installing the appliance:
•The level control knob is an integral part of the front cover - do not attempt to remove it.
•Unscrew the retaining screw and lift the front cover from the back cover. (Fig.4)
•After choosing the site for the appliance, use the back cover as a template and mark the two fixing holes. Drill them with a 8 mmdrill bit and plug to suit the fixing screws supplied.
•Screw the bottom fixing screw into position leaving the base of the screw head protruding 6 mm (0.25 in) out from the wall.
•Hook the back cover over the bottom screw and fit the top fixing screw into position. Fully tighten the screws.(Fig. 5)

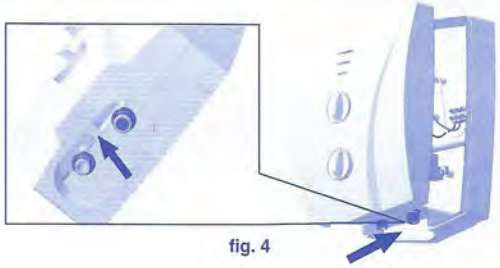


fig. 4

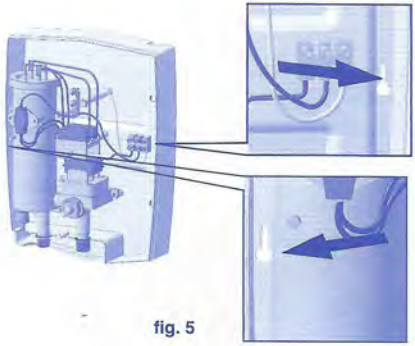


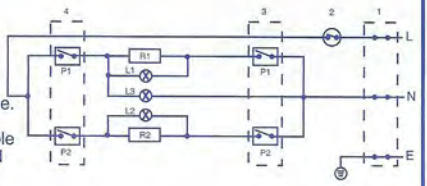
fig. 5

9 Electrical connection(Only by a specialist)

Pleas observe!
The installation must comply with current national local regulations or any particular regulations as specified by the local electricity supply company.The electric instant water heater is an appliance of protection class I and must be connected to the protective earth conductor!
All plumbing connections must be completed before making the electrical connections!

Structral prerequisites:

- The appliance must only be connected to a 220V supply.
- The electrical rating of the appliance is shown on the rating label within the unit.
- The electric wiring shoud not be injured. After mounting the wiring must not be direct accessible.
- The connecting cable must not be subjected to tensile stress.
- The appliance must be connected to the supply by means of permanent wiring through suitable isolation having a contact separation of at least 3 mm in all poles and may only be operated if measures have been taken to protect against shock-hazard voltages.
- The electrical supply must be adequate for the loading of the unit and existing circuit.
- To protect the appliance, a fuse element must be fitted with a tripping current commensurate with the nominal current of the appliance.
- Check your consumer unit (main fuse box) has a main switch rating of 40 Amps or above and that it has a spare fuse way which will take the fuse necessary for the appliance. If your consumer unit has a rating below 40 Amps or if there is no spare fuse way, then the installation will not be straight forward and may require a new consumer unitserving the installation site or just the appliance.
- The appliance must be connected to its own independent electrical circuit. It must not be connected to a ring main, spur, socket outlet,lighiting circuit or cooker circuit.
- The earth continuity conductor of the electrical installation must be effectively connected electrically to all exposed metal parts of other appliances and services in the installation site in which the appliance is to be installed, to conform to current IEE regulations.
- To obtain full advantage of the power provided by the appliance, use the shortest cable route possible from the consumer unit to the appliance.
- It is also necessary to satisfy the disconnection time and thermal constraints which mean that for any given combination of curent demand, voltage drop and cable size, there is a maximum permissible circuit length.
- The current rating will be reduced if the cabling is bunched with others, surrounded by thermal loft or wall insulation or placed in areas where the ambient temperature is above 30 °C. Under these conditions,derating factors apply and it is necessary to select a large cable size.
- In the majority of installations, the cable will unavoidably be placed in one or more of the above conditions.
- The cross sectional area of the connection cable must be in accordance with the power rating.
- This being so, it is strongly recommended to use a minimum of 3 x 4 mm^2 cabling throughout the appliance installation.
- In any event, it is essential that individual site conditions are assessed by a competent electrican in order to determine correct cable size and permissible circuit length.



L	Live cable
N	Neutral cable
E	Earth cable
1	Connection terminals
2	Thermal safety cut-out
3	Power selector switch
4	Differential pressure switch
P1,P2	SPST switch
R1	3 kW heating element
R2	4.25 kW heating element
L1,L2	Level lamp
L3	Power lamp

9 Electrical connection(Only by a specialist)

•Before making any sort of electrical connection within the installation, ensure that no terminal is live.

•If in any doubt, switch off the whole installation at the consumer unit.

•Strip the outer sheath of the supply cable roughly 5 cm and the connection cables roughly 1cm by using an appropriate tool. (The electric wiring shoud not be injured.)

•Route the supply cable through the supply cable entery. (Fig. 11)

•Carefully connect the cables to the connection terminals according to the wiring diagram. (After mounting the wiring must not be directaccessible.) (Fig.12)

•Fully tighten the terminal block screws and ensure that no cable insulation is trapped under the screws.

•Loose connections can result incable overheating.

•The supply cable must be secured either by routing through conduit or in trunking or by embedding in the wall, in accordance with IEE regulations.

•As with all electrical appliances it is recommended to have the appliance and installation checked at least every two years by a competent electrican to ensure there is no deterioration due to age and usage.

•Do not switch on the electricity supply until the front cover has been fitted.

•Replace the front cover squarely to the back cover.Ensure the cover side wall locates over tha guide rib on the back cover.

•Guide into position so that the splined spindles locate correctly into the level control knob while at the same time, ensuring wires are not trapped.

•If necessary, align the rotary level control knob.

•Secure the front cover in position with the reatining screw. (Fig. 13 , Fig.14)

fig 11

fig12

fig 13

fig 14

10 Inital operation

•To prevent damage to the appliance,the first operation is intended to flush out any remaining unit debris and to ensure the heater unit contains water before the heating element is switched on.The (0) position must be used. After turning on the mains water supply, open the hot water tap and wait until water starts to flow.It will take approximately thirty seconds for a smooth flow of water to be obtained whilst air and debris is being dispersed from the appliance. Next, open and close the hot water tap several times until no more air emerges from the line and all air has been eliminated from the heater.

•Before switching on the power supply to the appliance, close the hot water tap and ensure that the power selector is at the (0) position.

•Switch on the power supply to the appliance.

•Open the hot water tap.The "Power" indicator will light.

•The appliance is ready for operation.

•Check the function of the electric instant water heater, give these operating instructions to the user, and explain how the appliance works.

11 How to use

•It is recommended that persons who may have difficulty understanding or operating the appliance controls should not be left unattended while using the appliance. Special consideration should be given to young children and the less able bodied!

•The following points will help you understand how the appliance operates:

•As soon as you open the hot water tap, the electric instant water heater switches itself on automatically and the "Power" indicator will lights up

•If the water pressure is below the minimum, or the hot water tap is closed, the appliance automatically switches itself off.

•The electric instant water heater heats the water to the required temperature directly as it flows through the appliance. The appliance only consumes power during this period. The temperature of the hot water depends on the cold water temperature, the power of the appliance and the flow volume. The required water temperature is set via the flow rate and heating capacity.The heating capacity can be switched off(0) or set to three different levels (1-2-3) via the rotary power selector while the flow rate is infinitely adjusted via the flow control knop. By reducing the flow the temperature increasses and vice versa.

less flow = more hot **more flow = less hot**

•Please note that it takes a little time until the outlet temperature is readjusted after the presettings have been changed.

•If the temperature rises too high, the power is automatically switched off until the water has cooled back to the permissible level in order to avoid producing excessively hot water. This is indicated by the "Power" light. If this happens frequently, the cause of the fault must be remedied and may be due,for example,to dirt in the inlet filter, an excessive reduction in the rate of flow or an impermissibly high inflow temperature.

•If ever the water becomes too hot and you cannot obtain cooler water, first check that the sprayplate in the sprayhead or the perlator in the spout has not become blocked.

•If changes in water temperature are experienced during normal use, it will most likely be caused by the water pressure falling near to the minimum level. The drop in pressure may be due to water being draw off at other points in the installations site whilst the appliance is in use. If mains water pressure drops appreciably below the minimum, the heating elements will automatically cut out.

•If the appliance supplies two outlets the water from the unit will be shared betweet the outlets. Therefore you should use only one outlet at the time to have a sufficient flow and to avoid variation in temperature.

To use the power selector:

•The power selector has four positions (0-1-2-3) as shown (Fig.15).

•'0' position is cold water only. Adjustment of the hot water tap at this setting will only alter the flow rate. It will not alter the water temperature.Level 1 is an economy setting for using less power when the ambient mains water temperature is high during hot months. Temperature adjustment at this setting is via the flow rate.

•If the stated flow rate required for the unit cannot be met due to low water pressure, it will be necessary to operate the unit on this setting during the warmer months because of flow rate limitations entering the unit.

•Level 2 is a medium setting which used when the ambient mains water temperature is lower. Temperature adjustment at this setting is via the flow rate.

•Level 3 is a high setting which allows the highest flow achievable for your preferred temperature. This setting should normally be regarded as optimum hot water performance throughout the year.

•Temperature adjustment at this setting is via the flow rate.

Differential pressure switch

If the water pressure has fallen below the minimum required for correct operation of the appliance the differential pressure switch has operated.
This switches off power to the heating elements preventing undue temperature rises (water will continue to flow). Power will automatically be switched on to the previous setting at the time of interruption.

Thermal safety cut-out

During normal operation if an overheat temperature is sensed, power to the heating elements will be switched off. Water will continue to flow. When the temperature has cooled sufficiently, power to the heating elements will be automatically switched on to the previous setting at the time of interruption.

Pressure relief device

A pressure relief device (PRD) is designed into the appliance which complies with European standards.The PRD provides a level of appliance protection should an excessive build up of pressure occur within the appliance.
Ensure the outlet of the PRD is directed to waste because if the PRD operates, then water will eject from the bottom of the unit.
Should this happen,turn off the electricity and water supplies to the appliance.

fig. 15

To adjust the water temperature:

•The water temperature is altered by increasing or decreasing the flow rate of the water through the device via the flow control knob.After obtaining your preferred water temperature, the setting can be remembered as the normal setting and should only need to be altered to compensate for seasonal changes in ambient water temperatures. To decrease tha water temperature turn the temperature control anti clockwise towards the 'Cold'; this will increase the water flow.To increase tha water temperature turn the temperature control anti clockwise towards the 'Hot'; this will decrease the water flow.

Cleaning and maintenance

Do not use 'powerful' abrasive or solvent cleaning fluids when cleaning the appliance as they may damage the plastic fittings.The appliance unit,shower set, etc. should be cleaned using a soft cloth and warm water. It is advised before cleaning, to disconnect the instant water heater from the mains by disactivating the fuse, thus avoiding the appliance being accidentally switched on.For a good water supply, the spout perlator and the sprayhead should be unscrewed and cleaned at regular intervals or replaced by a new one recommended by the manufacturer. The hardness of the water will determine the frequency of cleaning. For example, if the appliance is used every day in a very hard water area, it may be necessary to clean the spout perlator and the sprayhead on a weekly basis.The electrical and plumbing components should be inspected by an authorized professional at least every two years to ensure proper functioning and operational safety at all times.

Cleaning the inlet filter:

•The inlet filter is located in the cold water connection and should be inspected and cleaned or replaced if necessary not only when operation of the appliance deteriorates, but also in conjunction with regular servicing.
•Turn off the water supply for cleaning.
•Unscrew the inlet hose from the appliance inlet (marked with blue). The filter inside the cold water connection is now accessible.
•Take out the inlet filter.(Fig. 16)
•The inlet filter can be cleaned or replaced.
•When cleaning the inlet filter, do not use a sharp object, as it will cause damage. It is preferable to use an old toothbrush or similar.
•Refit the inlet filter into the cold water connection.Before screwing the inlet hose to the appliance inlet (marked with blue), direct the hose to waste and turn on and off the water supply several times.This operation will flush out any loose scale deposits in the inlet hose.
•Screw the inlet hose to the appliance inlet. •After turning on the mains water supply, open the hot water tap and wait until water starts to flow.Next, open and close the hot water tap several times until no more air emerges from the line and all air has been eliminated from the appliance

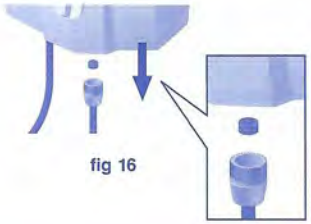


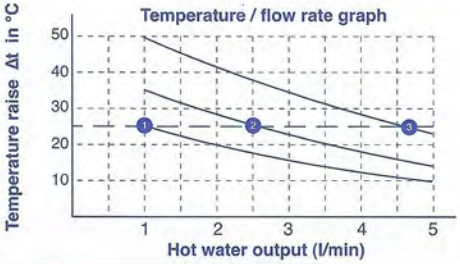
fig 16

13 Trouble - shooting and service

This appliance was manufactured conscientiously and checked several times before delivery. If you experience a malfunction, please try to rectify the fault yourself first with the help of this table. In doing so, you will avoid the unnecessary expense of customer service assistance.If a fault in your appliance cannot be rectified with the aid of this table, please contact the Central Customer Service Department. When carrying out any work, isolate the unit from the mains and shut off the water connection.Repairs must only be carried out by authorised professionals.

Problem/Symptom	Possible cause	Action/cure
1. „Power" indicator does not light, water remains cold.	1.1 Water pressure is below minimum required (see rating label). 1.2 Fuse has tripped. 1.3 Electric supply incorrect. 1.4 Unit malfunction.	1.1.1 Increase flow pressure. 1.2.1 Have the fault rectified and renew or reset the fuse. If it fails again, consult a qualified electrician. 1.3.1 Check the electric supply. 1.4.1 Ring Central Customer Service Department and have unit checked.
2. „Power" indicator lights, water remains cold.	2.1 Heating element is faulty.	2.1.1 Replace the heating element (by authorized technician).
3. Water too hot.	3.1 Not enough water flowing through the appliance. 3.2 Blockage in supply. 3.3 Increase in ambient water temperature.	3.1.1 Increase flow rate via the tap. 3.2.1 Check if stop valves are fully open and blockage in the inlet filter. 3.3.1 Re-adjust flow rate to give increased flow. 3.3.2 Select Level 2 or 1.
4. Water temperature cycling hot/cool at intervals.	4.1 The appliance cycling on thermal safety cut-out.	4.1.1 See 'Water too hot' causes 3.1, 3.2 and 3.3 and their appropriate action/cures. If it continues, ring Central Customer Service Department.
5. Water varies from normal temperature to cold during use.	5.1 Water pressure has dropped below minimum required.	5.1.1 Wait until the water pressure resumes to normal.

Problem/Symptom	Possible cause	Action/cure
6. Water flows more slowly than expected.	6.1 Depends on the appliance. 6.2 Water pressure is not sufficient. 6.3 Dirt in the pipes. 6.4 Outlet fitting dirty or calcified.	6.1.1 Check technical specifications. 6.2.1 Check the water flow pressure. 6.3.1 Remove any dirt from the inlet pipe, inlet filter, valves and/or taps. 6.4.1 Clean or replace the blocked sprayhead or perlator.
7. Water is not hot enough.	7.1 Flow rate is too high. 7.2 Reduction in ambient water temperature. 7.3 Power supply is too low or electrical malfunction. 7.4 Heating element defect.	7.1.1 Reduce flow rate via the tap. 7.2.1 Re-adjust flow rate to give reduced flow. 7.2.2 Select Level 3. 7.3.1 Measure the temperatures and flow rate and compare with the technical data, Check the power supply and if necessary, have unit checked by suitably qualified electrician or contact Central Customer Service Department. 7.4.1 Replace the heating element (by authorized technician).



t1= Inlet temperature

t2= Outlet temperature

Δt=t2-t1

Level 3= 7.25 kW
Level 2= 4.25 kW
Level 1= 3 kW