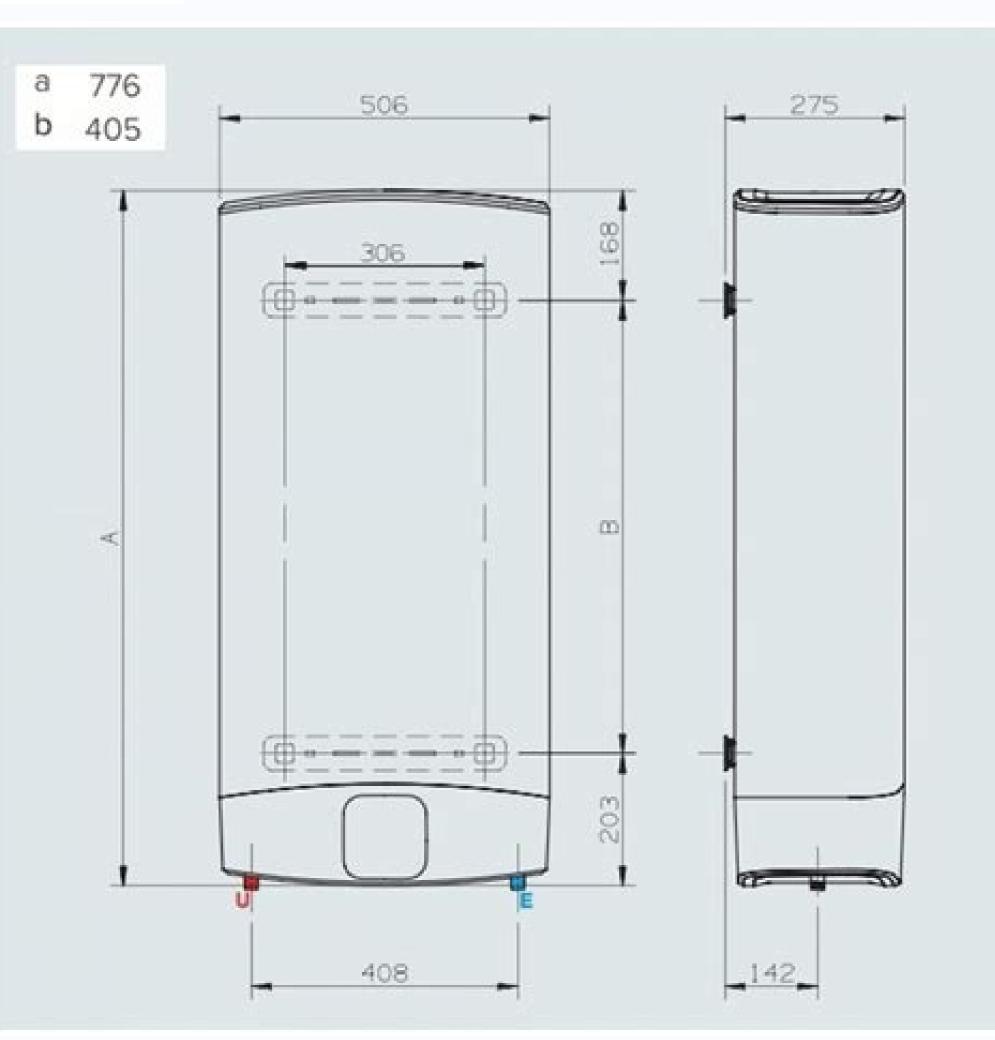
Ariston velis evo 50 l manual

I'm not robot!













Ariston instructions. Ariston model number. Ariston velis evo installation.

Page 1UNVENTED WATER HEATERASSEMBLY AND OPERATION INSTRUCTIONSPage 2GENERAL SAFETY INSTRUCTIONS1. Read the instructions and warning in this manual carefully, theycontain important information regarding safe installation, useand maintenance. This manual is an integral part of the product. Hand it on to thenext user/owner in case of change of property.2. The manufacturer shall not liable for any injury to people, animals ordamage to property caused by improper, incorrect or unreasonableuse or failure to follow the instructions reported in this publication.3. Installation and maintenance must be performed by professionally qualified personnel as specified in the relative paragraphs. Only use original spare parts. Failure to observe the above instructions can compromise the safety of the appliance and drelieves themanufacturer of any liability for the consequences. 4. DO NOT leave the packaging materials (staples, plastic bags, expanded polystyrene, etc.) within the reach of children they cancause serious injury.5. The appliance may not be used by persons under 8 years of age, with reduced physical, sensory or mental capacity, or lacking therequisite experience and familiarity, unless under supervision orfollowing instruction in the safe use of the appliance. User cleaning and maintenance may not be doneby unsupervised children.6. DO NOT ttouch the appliance when barefoot or if any part of yourbody is wet.7. Before using the device and after routine or extraordinary maintenance, we recommend filling the appliance's tank with water and draining it completely to remove any residual impurities.8. If the appliance is equipped with a power cord, the latter may onlybe replaced by an authorised service centre or professional technician.9. It is mandatory to screw o the water inlet pipe of the unit a safetyvalve in accordance with national regulations. In countries which have enacted EN 1487, the safety group must be calibrated to amaximum pressure of 1487 MPa (0,7 bar) and include at least a cock,2 / ENPage 3check valve and control, safety valve and hydraulic load cutout.10. Do not tamper with the appliance; trip it from time to time to ensure that it is not jammed and to remove any scale deposits.11. It is normal water drips from the overpressure safety device when the appliance is heating. For this reason, the drain must be connected, always left open to the atmosphere, with a drainage pipeinstalled in a continuous downward slope and in a place free of ice. 12. Make sure you drain the appliance and disconnect it from the power grid when it is out of service in an area subject to subzero temperatures.13. Water heated to over 50 °C can cause immediate serious burns ifdelivered directly to the taps. Children, disabled persons and theaged are particularly at risk. We recommend installing a thermostatic mixer valve on the water delivery line, marked with a red collar.14. Do not leave flammable materials in contact with or in the vicinity of the appliance.15. Do not place anything under the water heater which may be damaged by a leak.3 / ENPage 4LEGIONELLA BACTERIA FUNCTIONLegionella are small rod shaped bacteria which are a natural constituent of all fresh waters. Legionaries' disease is a pneumonia infection caused by inhaling of Legionella species. Long periods of water stagnation should be avoided; it means the water heater should be used or flushed at least weekly. The European standard CEN/TR 16355 gives recommendations for good practice concerning the prevention of Legionella growth in drinking water installations but existing national regulations remain inforce. This electronic storage water heater is sold with a thermal disinfection cycle function enabled by default. Every time the product is switched on and every 30 days, the thermal disinfection cycle runs to heat thewater heater up to 60°C. Warning: when this software has been carrying out the thermal disinfection treatment, water temperature can cause burns. Feel water before bathing or showering DESCRIPTION OF WATER HEATER21. Hot water outlet (1/2 male BSP)2. Temperature and pressure relief valve3. Cold water inlet (1/2 male BSP)4. Regulation keyboard 3144 / ENPage 5TECHNICAL CHARACTERISTICSFor the technical specifications, refer to the nameplate (the nameplate is located next to the water intake/outlet pipes).TABLE 1 - PRODUCT INFORMATIONProduct rangeWeight when emptyWeight when fullInstallationModelSMARTQelec , week, smartQelec , we nameplateXX7,1256,7927,14125,46732,04128,758MM1539,0%39,1%115771,3170,9641122912663,578045VLS EVO80 WiFi32112VerticalX7,12527,14132,041M39,0%1151,3175680The power consumption data in the table and the other information given in the Product Data Sheet(Enclosure A to this manual) are defined in relation to EU Directives 812/2013 and 814/2013. The products without the label and the data sheet for water heaters and solar devices, stipulated inregulation 812/2013, are not intended to be used in such assemblies. The device is equipped with a smart function that allows you to adapt the consumption to the user profiles. If operated correctly, the device has a daily consumption of "Qelec (Qelec, week, smart/Qelec, week) less thanthat of an equivalent product with no smart function". This appliance is conforming with the international electrical safety standards IEC 60335-2-21. The CE marking of the appliances attests its conformity to the following EC Directives, of which itsatisfies the essential requisites:- LVD Low Voltage Directive: EN 60335-1, EN 60335-2, EN 60335-2, EN 60529, EN 62233, EN 50106.- EMC Electro-Magnetic Compatibility: EN 55014-1, EN 50581.- ErP Energy related Products: EN 50440.- EN 12897:2016This product is in conformity with REACH regulations.5 / ENPage 6Water Regulations and ByelawsThese regulations and byelaws ensure a good supply of wholesome water, and that only approved materials, pipes and fittings are used to convey water. Building RegulationsThese are a statutory document and take priority over all other regulations and recommendations. The installation of an unvented hot water system of over 15 litres is classified as a "Controlled Service" and Regulation G3 applies. To meet the requirements of the regulation, installations of unvented hot water storage systems having a capacity of more than 15 litres should be undertaken by a "competent installer". All installations of unvented hot water storage systems having a capacity of more than 15 litres should be undertaken by a "competent installer". to the relevant Local Authority by means of building notice or by the submission of full plans. It is important to note that it is a criminal offence to install an unvented hot water heater (with factory-fitted T&P)Pressure relief valve set at 6 barDielectric junctionsTundishExpansion VesselCheck ValvePressure reducing Valvex1x1x1x1Important note: Dielectric junctions must be fitted to all models as they prevent an electrolytic reaction and safeguard against potential aggressive corrosion. If the supplied Dieletric Junctions are not fitted this could void the warranty.INSTALLING NORMS (for the installer) Before installer) Before installer should check with the local water read these instructions in full. If you are unsure please contact our technical service department (03332407777). The installation must comply with all relevant Water Regulations/Byelaws and Building Regulations. The installer should check with the local water authority for confirmation of the maximum watersupply pressure. The appliance should be left packed until it is ready to be installed. When unpacking take care not todamage the temperature and pressure relief valve on the top of the heater. A drain has to be provided for any water discharged through the safety valves. A cold water supply pressure between 1 and 3.5 bar is required (if the mains pressure is above 3.5 bar a pressure reducing valve must be installed). Please note that turning down the stop-cock will reduceflow not pressure from the reducing valve (if supplied) is 3.5 bar. A 240 VAC; 3 kW single phase electrical supply is required / ENPage 7This product is a

device that must be installed vertically in order to operate correctly. Once installation is complete, and before any water is added or the power supply is connected, use a measuring instrument (i.e. a spirit level) to check that the device has been installed perfectly vertical. The appliance heats water to a temperature below boiling point. It must be linked up to a mains watersupply according to the appliance performance levels and capacity. Before connecting the appliance, it is first necessary to:- Check whether the characteristics (please refer to the data plate) meet the connecting the appliance, it is first necessary to:- Check whether the characteristics (please refer to the data plate) meet the connecting the appliance performance levels and capacity. liquids) of the appliance according to the appliance was designed to be installed only inside buildings in compliance was designed to be installed only inside buildings in compliance with the applicable norms in force. Furthermore, installers are requested to keep to the following advice in the presence of:- Damp: do not install the appliance in closed (unventilated) and damp rooms.- Frost: do not install the appliance in areas where the temperature may drop critically and there maybe a risk that ice may form.- Sunlight: do not install the appliance in the presence of particularly dangerous substancessuch as acidic vapours, dust or those saturated with gas.- Electrical discharges: do not install the appliance directly on electrical supplies that aren't protected against sudden voltage jumps. In the case of walls made of bricks or perforated blocks, partition walls featuring limited static, or masonry different in some way from those stated, you first need to carry out a preliminary static check of thesupporting system. The wall-mounting fastening hooks must be designed to support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the weight of the support a weight that is three times higher than the support a weight that is three times higher than the support a weight that the support a weight the support a weight t recommended. To facilitate maintenance, make sure there is a clearance of at least 50 cm inside the enclosure for access to the electrical equipment. PLUMBING WARNING: Note: If a valve i.e. a non return valve, water meter, pressure reducing valve or any type of valve or fitting that acts as a non return valve is installed on the cold water mains, this will prevent expansion. Therefore it will be necessary to install an expansion vessel (see figure below). Note: If in doubt always install a pressure relief valve/pressure reli into the pipe work or fittings, as this might impair the operation of the safety valve(s). The water connection may be carried out as per the following:7 / ENPage 8PRESSURE + TEMPERATURERELIEF VALVECOLD MAINS-IN15/22 mm15 mmEXPANSIONVASSELCOMBINATIONVASSELHOT SUPPLY15/22 mmDRAIN(not supplied)EXPANSIONRELIEF PIPETUNDISHDo not fit any stop cocks or isolating valves within the distance required for expansion. If a pressure of over 3.5 bar, an expansion control kit must be fitted regardless of expansion pipework installed. The expansion distances quoted are for 15mm pipes and can be approximately halved for 22mm pipes. The appliance must not be supplied with water of hardness less than 12°F, not with especially hard water (greater than 25°F); we recommend installing a water softener, properly calibrated and controlled - donot allow the residual hardness to fall below 15°F. The appliance is covered under the Building Regulations and therefore it is covered under the applications and therefore it is covered under the Building Regulations and therefor not possible to accommodate the expansion water within the system pipe work and consequently a set of expansion controlsmust be installed. Note: The discharge from relief valves must be connected to the heater before anyother connection is made (these prevent an electrolytic reaction).8 / ENPage 9If the supplied Dielectric Junctions are not fitted this could void the warranty. Only the use of copper pipe is recommended for connection to the heater. If any other material issued it must be able to withstand 90°C at 7 bar pressure for long periods. No valve must be fitted between the expansion/pressure relief valve and the water heater. All other required safety components to install the appliance are supplied as a kit with the appliance are supplied as a kit with the appliance are supplied as a kit with the appliance. 15 mm pressure reducing valve set at 3.5 bar. Expansion Vessel (charge pressure set at 3.5 bar) "DISCHARGE PIPE WORK NOTE: The following guidelines refer to Building Regulation G3. It is good practice to follow these guidelines for all relief valve andmust be located with the cylinder. The tundish must also be in a position visible to the occupants, and positioned away from any electrical devices. The discharge pipe from the tundish should terminate ina safe place where there is no risk to persons in the vicinity of the discharge and to be of metal.2) Discharge pipes from the temperature & pressure relief and pressure relief valve may be joinedtogether.3) The pipe diameter must be at least one pipe size larger than the nominal outlet size of the safety device unless its total equivalent hydraulic resistance exceeds that of a straight pipe 9 m long.i.e. Discharge pipes between 9 m and 18 m equivalent resistance length should be at least 3 times larger, and so on. Bends must be taken into account in calculating the flow resistance. See the following figure and the Table 2.4) The discharge pipe must have a vertical section of pipe at least 300 mm in length, below the tundishbefore any elbows or bends in the pipe work. 5) The discharge pipe must be installed with a continuous fall. 6) The discharge pipe must be visible at both the tundish and the final point of discharge, but where this isnot possible or practically difficult; there should be clear visibility at one or other of these locations. Examples of acceptance are:i) Ideally below a fixed grating and above the water seal in a trapped gully.ii) Downward discharges at a low level; i.e. up to 100 mm above external surfaces such as car parks, hard standings, grassed areas etc. These are acceptable providing that where children may play orotherwise come into contact with discharges, a wire cage or similar guard is positioned to prevent contact, whilst maintaining visibility.iii) Discharges at high level; i.e. into a metal hopper and metal down pipe with the end of the dischargepipe clearly visible (tundish visible or not). Or onto a roof capable of withstanding high temperature discharges of water 3 m from any plastic guttering systems that would collect such a discharge pipes safely Temperature & pressure relief valve.to tundish.Tundish600 mm Max.300 mmMin.Metal discharge pipe (D2) from tundishwith continuous fall. See Table 2 and workedexample.Discharge belowfixed gratingTrapped gulleyiv) Where a single pipe serves a number of discharges, such as in blocks of flats, the number servedshould be limited to no more than 6 systems so that any installation can be traced reasonably easily. The single common discharge pipe should be at least one pipe size large than the largest individual discharge pipe should be at least one pipe size large than the largest individual discharge pipe should be at least one pipe size large than the largest individual discharge pipe should be at least one pipe size large than the largest individual discharge pipe size large than the largest individual discharge pipe should be at least one pipe size large than the largest individual discharge pipe occupied by the blind, infirm or disabledpeople, consideration should be given to the installation of an electronically operated device to warnwhen discharge will consist of scalding water and steam. Asphalt, roofing felt and non-metallic rainwater goods may be damaged by such discharges. Table 2Sizing of copper discharge pipe "D2" for common temperature valve outlets Valveoutlet sizeMinimum size of discharge pipe D1*G 1/215 mmG 3/422 mmG128 mm10 / ENMinimum resistance created allowed, expressed asby each elbow or bends)22 mm28 mm35 mm28 mm42 mm35 mm42 mm54 mmUp to 9 mUp to 18 mUp to 27 mUp to 9 mUp to 18 mUp to 27 mUp to 9 mUp to 18 mUp to 27 mUp to 9 mUp to 18 mUp to 27 mUp to 9 mUp to 18 mUp to 27 m0.8 m1.0 m1.4 m1.7 m2.3 mPage 11WORKED EXAMPLEThe example below is for a G 1/2" temperature & pressure relief valve with a discharge pipe (D2) having4 no. elbows and length of 7 m from the tundish to the point of discharge. From Table 2Maximum resistance allowed for a straight length of 22 mm copper discharge pipe (D2) from G 1/2" T& P valve is 9 m. Subtract the resistance for 4 no. 22 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 7 m therefore themaximum permitted length of 7 m therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 7 m therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 2 mm elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 3 m elbows at 0.8 m each = 3.2 m. Therefore themaximum permitted length of 3 m elbows at 0.8 m elbows calculate the next largest sizeMaximum resistance allowed for a straight length of 28 mm pipe (D2) from G 1/2" T & P valve equatesto: 18 m. Subtract the resistance for 4 no. 28 mm elbow at 1.0 m each = 4 m. Therefore the maximum permitted length is 7 m, a 28 mm (D2) copper pipe will be satisfactory.DRAINING THE APPLIANCEThe appliance must be drained if left inactive in a roomsubject to frost and/or in the event of prolonged inactivity. Typical drain arrangement and system designs will vary: 1. Turn power off to ensure appliance is not operated when empty. 2. Turn off cold supply to appliance. 3. Shut off hot water feed from appliance.4. Connect hose to drain cock and place other end in sink, basin etc.5. Open drain cock and open TPR valve to vent cylinder. ELECTRICAL WARNINGThe appliance must be in line with the current I.E.E. wiring regulations. A mains supply of 240VAC 3 kW (13 amps) is required (Fig. 2) Heat resisting cable, round 3 core 1.5 mm (to BS 6141 table 8) should be used to connect to the electrical supply through either:- a 13 amp socket to BS 1363; or- a double pole fused isolating switch with a contact separation of 3 mm minimum on each pole. Flexible cables are colour coded as follows: Brown liveBlue earth11 / ENPage 12Fig. 2 - Wiring diagramVELIS EVOSafety relay 17d]PcW^]MZaRZMh7d]PcW^]MZaRZMh 127-240 VacInputHeating elementR1R2LNSafety relay 2SensorNTC 1NTC 3NTC 2NTC 4User neutralGreen and vellow InterfaceA]XAŪOdcc^]FR\ RaMcdaR2QXdbc\R]cFR\ RaMcdaRHWbdMZWjMcW^]?M]dMZDRbRcCPUEVELIS EVO WiFiSafety relay 17d]PcW^]MZaRZMh7d]PcW^ InterfaceA]XAŪOdcc^]FR_RaMcdaR2QXdbc\R]cFR_RaMcdaRHWbdMZWjMcW^]?M]dMZDRbRcE12 / ENCPUPage 13To enter into the terminal compartment unscrew the 2 screws on the cover.(To access the screws, remove the decorative caps on the control access panel). It is mandatory, before installing the appliance, to perform an accurate control of the electrical system byverifying compliance with current safety standards, which is adequate for the maximum power absorbedby the water heater (refer to the data plate) and that the section of the cables for the electrical connection is suitable and complies with local regulations. The manufacturer is not liable for damage caused by lack of grounding or anomalous power supply. Before starting up the appliance, check that the power rating matches that given on the nameplate. Theuse of multi plugs, extensions or adaptors is strictly prohibited. It is strictly forbidden to use the piping from the plumbing, heating and gas systems for the appliance earthing connection. If the appliance is supplied with a power supply cable, should the latter need replacing, use a cable featuring the same characteristics. The power cord must be grounded with a cable (yellow/green and longer than the phase cable) connected to the terminals marked (G Fig.7-8). COMMISSIONING- Check that all the necessary components are supplied and for those not factory fitted, that the water heater.- Check that the water heater.- Check that the discharge pipe is plumbed so that it falls continuously and that no taps, valves or othershut-off devices are installed in the pipe.- Check that the discharge pipe drains safely to waste and is readily visible.- Check, in the case where some components are not factory fitted, that they are marked so as to refer to the warning label on the water heater.- Open all outlet taps.- Turn on the mains water supply.- Close taps in turn as water flow stabilises with no air bubbles.- Check for leaks.- Check that no water is passing through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s).- Test the operation of the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s).- Test the operation of the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s).- Test the operation of the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing that waterflows through the safety valve(s) by lifting/turning the lever/knob, and observing the lever/knob, and observing the lever/knob, and by lifting/turning the lever/knob, build up of scale in hard water areas.- Check the water heats up.- Check that is secure and visible on the heater and related warning labelsare fitted to the controls.- Demonstrate operation of safety valve(s) and what to do if it/they operate(s).- Give this handbook to the user and discuss future maintenance.- Drain and refil the entire system ensuring it is flushed in accordance with BS6700.13 / ENPage 14MAINTENANCE REGULATIONS (for qualified personnel)Before calling your Technical Servicing Centre, check that the fault is not due to lack of water or power failure. Caution: disconnect the appliance from the mains before conducting any maintenance. work.Replacing partsThe electrical parts may be accessed by removing the cover (Fig. 7, 8).Intervene on the power board (Ref. Z) by disconnecting the control panel by first removing the power board (Ref. Z). The display board is attached to theproduct through two fixing side flaps (A Fig. 4a) accessible from inside the lower cover. Release the control panel fixing flaps using a flat screwdriver to pry upon the same (A Fig. 4b) and release them from the pins, simultaneously push it outwards to free it from the same (A Fig. 4b) and release the control panel fixing flaps. correct assembly of thepanel in its seat, resulting in possible aesthetic defects. After removing the control panel, you can disconnective control panel, you can disconnective control panel and remove it from its seat, taking care not to excessively bend them. During reassembly, make sure that all components are put back in their original positions. To work on the heating elements and anodes, first drain the appliance (refer to the related paragraph). Remove the bolts (C Fig. 5) and remove the flanges (F Fig. 5). The flanges are coupled to the heating elements and anodes. During reassembly, make sure to restore the rod carrying sensors and the heating elements to the original positions (Fig. 5, 7, 8). Make sure that the flange gasket (Z Fig. 6) every time it is disassembled. Only for models equipped with user interface shown in figure 8. Se si deve sostituire l'anodo a corrente impressa (Rif. Q), unscrew the anode from the flange. When you are putting it back in, replace the gasket, tighten the anode to a maximum torque of 2.5 Nm, connect the cable and tighten the relative nut to a maximum torque of 0.6 Nm.CAUTION! The reversal of the heating elements involves malfunction of the appliance. Work on one heating element (R fig. 6) should be descaled every two years to ensure it works properly (R Fig 6) approximately every two years (the frequency must be increased, if water is very hard). If you prefer not to use special liquids for this operation, simply crumble away the lime deposit without damaging the heating element. The magnesium anodes (N Fig. 6) must be replaced every two years (this does not apply to appliances withstainless steel boilers); however, the anode should be checked every year if the water is corrosive or chloriderich. To replace them, remove the heating elements and unscrew them from the brackets. The bypass pipe (X Fig. 7, 8) is inspected in the event of fault due to its obstruction. To inspect it remove the heating elements and unscrew them from the brackets. The bypass pipe (X Fig. 7, 8) is inspected in the event of fault due to its obstruction. To replace them, remove the heating elements and unscrew them from the brackets. The bypass pipe (X Fig. 7, 8) is inspected in the event of fault due to its obstruction. maintenance, we recommend filling its tank with water and draining it completely so as to remove any residual impurities. Use only original spare parts supplied by the manufacturer's authorised service centres.14 / ENPage 15USER INSTRUCTIONSAdvice for user- Avoid positioning any objects and/or appliances that could be damaged by water leaks beneath the waterheater.- Should you not use any water for an extended period of time, you should:• disconnect the appliance from the electrical supply by switching the external switch to "OFF";• turn off the plumbing circuit taps;- Hot water at above 50°C flowing out of the taps at the point of use could cause serious scalds or even deathfrom burns. Children, the disabled and the elderly are more exposed to the risk of burns. It is strictly forbidden for the user to perform any routine or extraordinary maintenance. To clean the external parts use a damp cloth soaked in soap and water. Adjusting the temperature and activating the functions (Fig. 9-10) The product is set to "Manual" by default with a temperature set to 65 °C and the function "ECO EVO" is active. In case of a power failure or if the product is switched off using the beating phase due to the water being heated. Switch the appliance on by pressing the ON/OFF (Ref. A), the last temperatureset remains saved. Slight noise may occur during the heating phase due to the water being heated. Switch the appliance on by pressing the ON/OFF button (Ref. A). Set the desired temperature by selecting alevel between 40°C and 65°C using the " + " and " - .: buttons. During the heating phase, the LEDs (Ref. 1-5) related to the temperature reached by the water being drawn, the heating is automatically reactivated and the LEDs between the last one on (steady) and that related to the set temperaturestart to flash progressively again. ECO EVO FUNCTIONThe "ECO EVO" function is a software program that automatically "learns" user consumption levels, reducing heat loss to a minimum and maximising energy savings. The "ECO EVO" software consists of aninitial saving period of a week, when the product begins to operate at the temperature set. Al the endof this "le arning" week, the software adjusts water heating according to the user's real needs which areautomatically identified by the appliance. periods in which water is not withdrawn. The hot water demand learning process, continues even after the first week. The process achieves of learning. Activate the function by pressing the corresponding button, which will light up. In this mode, the manual selection of the temperature is possible, however changing iidisables the "ECO EVO" function.Reactivate it by pressing the "ECO" button.Whenever the "ECO" button.Whenever the by pressing the "ECO" button.Whenever the mains. An internal memory ensures data storage forup to four hours wi thout electricity, after which all acquired data is cancelled and the learning processwill begin from the start. Each time the knob is rotated to set the temperature, the "ECO EVO" functionis automatically disabled and the relative writing turns off. The product continues to operate with theprogram selected, the ECO function is not active. To voluntarily cancel the acquired data, hold down the "ECO" button for more than 5 seconds. When thereset process is completed, "ECO" flashes quickly to confirm data cancellation 15 / ENPage 16SHOWER READY FUNCTIONFor model equipped with user interface type shown in figure 9The product is equipped with an intelligent function to minimise water heating time. Regardless of thetem perature set by the user, the symbol "" shower ready will turn on as soon as there is enoughhot water for atleast one shower (40 litres of mixed hot water at 40 °C). ANTI-FREEZE FUNCTIONThe anti-freeze function is the appliances automatic protection to avoid damages caused by very lowtemperatures below 5 °C, in the event in which the product is turned off during winter. It is recommended that the product remains plugged in to the mains power, even if is inactive for a long time. THERMAL DISINFECTION FUNCTION (Anti-Legionella) The Anti-Legionella function is activated by default. It consists of a water heating/60°C temperaturemainte nance cycle for 1 hour which has a thermal disinfection action on the relative bacteria. The cycle starts when the product is started up and when it is restarted after 30 days. When theproduct is switched off, the anti-Legionella function is deactivated. If the equipment is switched off during the anti Legionella cycle, the product switches off and the function is deactivated. If the equipment is switched off during the anti-Legionella cycle, the product switches off and the function is deactivated. If the equipment is switched off during the anti-Legionella cycle, the product switches off and the function is deactivated. adjustment 60°C. Activate this function by pressing and holding both the "ECO" and "+" buttons for 4 s. Permanently deactivate the function is confirmed, LED 40°C (Ref. 1) will flash quickly for 4 s. RESET/DIAGNOSTICSFor models equipped with user interface type shown in figure 9When one of the malfunctions described above occurs, the appliance will enter its "fault status" and allLEDs on the control panel will flash simultaneously. Diagnostics: to enable the diagnostics: to enable the diagnostics: to enable the diagnostics function, press contemporary ON-OFF button (ref. A) and MINUSbutton for 3 sec. The type of fault status" is indicated by five LEDs (Ref. 1-5) according to the following scheme: LED Ref. 1 - internal malfunction of the circuit board (NFC communication or NFC data) LED Ref. 3 - broken temperature detected by single sensor - boiler outletLED Ref. 4 and 5 - general excessive water temperature (circuit board fault) - boiler outletLED Ref. 3, 4 and 5 - overheating caused by lack of water - boiler outletLED Ref. 2 and 3 - broken temperature probes (open or short circuited) boiler inletLED Ref. 2 and 5 - excessive water temperature detected by single sensor - boiler inletLED Ref. 2, 3 and 4 - failure to heat water with powered heating element - boiler inletLED Ref. 2, 3, 4 and 5 - overheating caused by lack of water - boiler inletEX the diagnostic function by pressing the ON/OFF button (Ref. A) or wait for 25 seconds.16 / ENPage 17WI-FI FUNCTIONFor models equipped with user interface type shown in figure 10For detailed information on the Wi-Fi configuration and product registration procedure refer to the enclosed, dedicated connectivity Quick Start Guide. Account creation, figure 11• First download and install the dedicated App on your mobile phone (App name can be found in thequick start guide).• Open the registration reply message received in your mailbox and click on the link to activate the useraccountWI-FI configuration, figure 12• Press the Wi-Fi Button on the product's control panel to activate the Wi-Fi Button will blink fast).• Log in to Aqua Ariston NET App and follow the wizard to connect and register your product. Procedure completed, figure 13The connection is successful when:• The wi-fi button is steady on.• The app shows the successful registration messageIf the connection fails, carefully check and repeat the above steps. Note: the password cannot be Chinese characters. If there are any Chinese characters, please modify it. App layout, figure 14The following instructions are included:• Following functions are included: ••••••••On/off (A)Manual mode (B)Program mode (C)ECO mode (D)POWER (E)Knob to select temperature(F)Remaining time (G)Number of showers (H)Connection status descriptionWiFiButtonBlinking slowThe Wi-Fi is connected to the home networkBlinking FastThe Wi-Fi module is on Access Point modeSteady on The Wi-Fi module is ON and Connected to the home networkOffThe Wi-Fi module is OFF17 / ENPage 18USEFUL INFORMATIONIf the water comes out cold, have the following checked-The presence of voltage on the power terminal block (m fig. 7 And 8); The circuit board; The heating parts of the heating element; Inspect the bypass pipe (x fig. 7 And 8); The sensor holder rods (k fig. 7 And 8). If the water comes out boiling hot (steam in the taps) Disconnect the appliance from the electricity supply and have the following checked:- The amount of scale on the boiler and components;- The sensor holder rods (k fig. 7 And 8). If the hot water delivery is insufficient: Have the following checked:- The pressure of the water mains;- The condition of the deflector on the cold water trickling, a suitable from the pressure safety deviceDuring the heating phase, some water may trickle from the tap. This is normal. To prevent the water trickling, a suitable expansion vessel must be installed on the flow system. If the trickling continues even after theheating phase, have the following checked:- Device calibration;- The pressure of the water mains. Caution: Never obstruct the appliance outlet! IF THE PROBLEM PERSISTS, NEVER ATTEMPT TO REPAIR THE APPLIANCE YOURSELF - ALWAYS HAVETHIS DONE BY A QUALIFIED TECHNICIAN. The indicated data and specifications are not binding; the manufacturer reserves the right to modify themat his own discretion notification or replacement. This product conforms to Directive WEEE 2012/19/EU. The symbol of the crossed waste paper basket on the appliance and its packaging indicates that the product must be scrapped separately from other waste at the end of its service life. The usermust therefore hand the equipment at the end of its service life. Alternatively, he may return the equi ofappliance. Electronic equipment of size less than 25 cm can be handed over to any electronics equipmentretailer whose sales area is at least 400 m2 for disposal free of charge and without any obligation to purchasenew product.18 / ENPage 19About 70Installation schemeBA306275168506203Model408G 1/2"ABVELIS 45776405VELIS 8012518801421SUGGESTED FOR80L MODEL319 / ENPage 2020 / ENPage 2121 / ITPage 2254D3A1254D3A1222 / ITPage 2311121314CADBEFGH23 / ITPage 24Ariston Thermo.comwww.aristonthermo.com420011063500 - 09/2019 Page 2 Zoom out Zoom in Previous page 1/24 Next page 22 / ITDA54321 880Installation scheme Page 617 / ENWI-FI FUNCTION For models equipped with user interface type shown in fi gure 10For detailed information on the Wi-Fi confi guration and product registration procedure refer to the en-closed, dedicated App on your mobile phone (App name can be found in the quick start guide). • Open the APP and click on SIGN UP; Fill in the fi elds. • Open the registration reply message received in your mailbox and click on the link to activate the Wi-Fi (Wi-Fi (Wi button will blink slow). • Press the Wi-Fi Button again for 5 seconds on the product's control panel to create the Access Point (Wi-Fi button will blink fast). • Log in to Aqua Ariston NET App and follow the wizard to connect and register your product. The app shows the successful registration messageIf the connection fails, carefully check and repeat the above steps. Note: the password cannot be Chinese characters, please modify it. App layout, fi gure 14The following instructions are included: • On/o (A) • Manual mode (B) • Manual mode (B) Program mode (C)• ECO mode (D)• POWER (E)• Knob to select temperature(F)• Remaining time (G) • Number of showers (H)Connected to the home networkBlinking Fast The Wi-Fi module is on Access Point modeSteady on The Wi-Fi module is ON and Connected to the home networkO The Wi-Fi module is OFFPage 715 / ENUSER INSTRUCTIONSAdvice for user- Avoid positioning any objects and/or appliances that could be damaged by water for an extended period of time, you should: • disconnect the appliance from the electrical supply by switching the external switch to "OFF";• turn o the plumbing circuit taps;- Hot water at above 50°C fl owing out of the taps at the point of use could cause serious scalds or even death from burns. It is strictly forbid-den for the user to perform any routine or extraordinary maintenance. To clean the external parts use a damp cloth soaked in soap and water. Adjusting the temperature and activating the functions (Fig. 9-10) The product is switched o using the button ON/OFF (Ref. A), the last temperature set remains saved. Slight noise may occur during the heating phase due to the water being heated. Switch the appliance on by pressing the ON/OFF button (Ref. A). Set the desired temperature by selecting a level between 40°C and 65°C using the "+" and "- ... buttons. During the heating phase, the LEDs (Ref. 1-5) related to the temperature reached by the water remain on; the subsequent ones, until the temperature is set, fl ash progressively. If the temperature drops, for example due to water being drawn, the heating is auto matically reactivated and the LEDs between the last one on (steady) and that related to the set temperature start to fl ash progressively again. ECO EVO FUNCTIONThe "ECO EVO" function is a software program that automatically "learns" user consumption levels, redu cing heat loss to a minimum and maximising energy savings. The "ECO EVO" software consists of an initial saving period of a week, when the product begins to operate at the temperature set. All the end of this "le arning" week the software adjusts water heating according to the user's real needs which are automatically identified by the appliance. The product guarantees a minimum reserve of hot water even during periods in which water is not withdrawn. The hot water even during periods in which are automatically identified by the appliance. after four weeks of learning. Activate the function by pressing the corresponding button, which will light up. In this mode, the manual selection of the temperature is possible, however changing iidisables the "ECO EVO" function. Reactivate it by pressing the "ECO EVO" function or the product is turned o and on again, the function will continue to le arn the levels of consumption. In order to guarantee proper operation of the program, it is recom-mended not to disconnect the appliance from the mains. An internal memory ensures data storage for up to four hours without electricity, after which all acquired data is cancelled and the learning process will begin from the start. Each time the knob is rotated to set the temperature, the "ECO EVO" function is automatically disabled and the relative writing turns o . The product continues to operate with the program selected, the ECO function is not active. To voluntarily cancel the acquired data, hold down the "ECO" button for more than 5 seconds. When the reset process is completed, "ECO" fl ashes quickly to confirm data cancellationPage 813 / ENTo enter into the terminal compartment unscrew the 2 screws on the cover. (To access the screws, remove the decorative caps on the cover.) It is mandatory, before installing the appliance, to perform an accurate control of the electrical system by verifying compliance with current safety standards, which is adequate for the maximum power absorbed by the water heater (refer to the data plate) and that the section of the cables for the electrical connec-tion is suitable and complies with local regulations. The manufacturer is not liable for damage caused by lack of grounding or anomalous power supply. Before starting up the appliance, check that the power rating matches that given on the nameplate. The use of multi plugs, extensions or adaptors is strictly prohibited. It is strictly forbidden to use the piping from the plumbing, heating and gas systems for the appliance earthing connection. If the appliance is supplied with a power supply cable, should the latter need re-placing, use a cable featuring the same characteristics . The power cord must be routed into the hole in the back of the appliance must be grounded with a cable (yellow/green and longer than the phase cable) connected to the terminals (M Fig.7-8). The appliance must be grounded with a cable (yellow/green and longer than the phase cable) connected to the terminals marked (G Fig.7-8). COMMISSIONING- Check that all the necessary components are supplied and for those not factory fi tted, that they are the type recommended by the manufacturer for the particular water heater.- Check that the valves or other shut-o devices are installed in the pipe.- Check that the discharge pipe drains safely to waste and is readily visible.- Check, in the case where some components are not factory fi tted, that they are marked so as to refer to the warning label on the water heater.- Open all outlet taps.- Turn on the mains water supply.- Close taps in turn as areas.- Check the water heats up.- Check that is secure and visible on the heater and related warning labels are fi tted to the controls.- Demonstrate operation to user, including operation of safety valve(s) and what to do if it/they oper-ate(s).- Give this handbook to the user and discuss future maintenance.- Drain and refi ll the entire system ensuring it is fl ushed in accordance with BS6700.Page 911 / ENWORKED EXAMPLEThe example below is for a G 1/2" temperature & pressure relief valve with a discharge.From Table 2Maximum resistance allowed for a straight length of 22 mm copper discharge pipe (D2) from G 1/2" T & P value is 9 m. Subtract the resistance for 4 no. 22 mm elbows at 0.8 m each = 3.2 m. Therefore the maximum permitted length of 7 m therefore calculate the next largest sizeMaximum resistance allowed for a straight length of 28 mm pipe (D2) from G 1/2" T & P value equates to: 18 m.Subtract the resistance for 4 no. 28 mm (D2) copper pipe will be satisfactory.DRAINING THE APPLIANCEThe appliance must be drained if left inactive in a roomsubject to frost and/or in the event of prolonged inactivity. Typical drain arrangement and system designs will vary:1. Turn power o to ensure appliance is not operated when empty.2. Turn o cold supply to appliance.3. Shut o hot water feed from appliance.4. Connect hose to drain cock and place other end in sink, basin etc.5. Open drain cock and open TPR value to vent cylinder. ELECTRICAL WARNINGThe appliance must be earthedThe electrical installation must be in line with the current I.E.E. wiring regulations. A mains supply of 240 VAC 3 kW (13 amps) is required (Fig. 2)Heat resisting cable, round 3 core 1.5 mm (to BS 6141 table 8) should be used to connect to the electrical supply through either:- a 13 amp socket to BS 1363; or- a double pole fused isolating switch with a contact separation of 3 mm minimum on each pole. Flexible cables are colour coded as follows: Brown liveBlue . neutralGreen and yellow ... earthPage 10 10 / ENiv) Where a single pipe serves a number of discharges, such as in blocks of fl ats, the number served should be limited to no more than 6 systems so that any installation can be traced reasonably easily. The single common discharge pipe should be at least one pipe size large than the largest individual discharge pipe to be connected. If unvented hot water storage systems are installed where discharge sfrom safety devices may not be apparent i.e. in dwellings occupied by the blind, infi rm or disabled people, consideration should be given to the installation of an electronically operated device to warn when discharge takes place. Note: The discharge takes place will consist of scalding water and steam. Asphalt, roofi ng felt and non-metallic rainwater goods may be damaged by such discharge pipe D1*Minimum size of discharge pipe D2* from tundishMaximum resistance allowed, expressed as a length of pipe(i.e. no elbow or bends)Resistance created by each elbow from temperature & pressure relief valve.to tundish.Metal discharge pipe (D2) from tundishwith continuous fall. See Table 2 and workedexample.TundishFixed grating.(see page 6 foralternative points of discharge).Suggest ways of terminating discharge pipes safely Page 11 12 / ENLSafety relay 1A]XAŪOdcc^]FR\ RaMcdaR2QXdbc\R]cFR\ RaMcdaRHWbdMZWjMcW^]?M]dMZDRbRc7d]PcW^]MZaRZMhHeating elementUser InterfaceSensorNTC 1CPUNTC 2Safety relay 2NE127-240 VacInputNTC 3NTC 4R1R27d]PcW^]MZaRZMhLSafety relay 1A]XAŪOdcc^]FR\ RaMcdaR4WbdMZWjMcW^]? M]dMZDRbRc7d]PcW^]MZaRZMhHeating elementUser InterfaceSensorNTC 1CPUNTC 2Safety relay 2NE127-240 VacInputNTC 3NTC 4IW7WMODULER1R27d]PcW^]MZaRZMhFig. 2 - Wiring diagramVELIS EVOVELIS EVO WiFi Page 1214 / ENMAINTENANCE REGULATIONS (for qualifi ed personnel)Before calling your Technical Servicing Centre, check that the fault is not due to lack of water or power failure. Caution: disconnect the appliance from the mains before conducting any maintenance work. Replacing parts may be accessed by removing the cover (Fig. 7, 8). Intervene on the power board (Ref. Z) by disconnecting the cables (Ref. C, Y and P) and remove the screws. Intervene on the control panel by fi rst removing the power board (Ref. Z). The display board is attached to the product through two fi xing fl aps using a fl at screwdriver to pry upon the same (A Fig. 4b) and release them from the pins, simultaneously push it outwards to free it from the seat. Repeat for both fi xing fl aps. Payspecial attention not to damage the plastic fl aps as breaking them will not allow for correct assembly of the panel in its seat, resulting in possible aesthetic defects. After removing the control panel, you can disconnect the connectors of the rod carrying sensors and power board. Intervene on the rod carrying sensors (Ref. K) by disconnecting the wires (Ref. F) from the control panel and remove it from its seat, taking care not to excessively bend them. During reassembly, make sure that all components are put back in their original positions. To work on the heating elements and anodes, fi rst drain the appliance (refer to the related paragraph). Re move the fl anges (F Fig. 5) and remove the fl anges are coupled to the heating elements and anodes. During reassembly, make sure to restore the rod carrying sensors and the heating elements to the original positions (Fig. 5, 7, 8). Make sure that the fl ange plate with the coloured writing H.E.1 or H.E.2, is mounted in its position marked by the same writing. We recommend replacing the fl ange gasket (Z Fig. 6) every time it is disassembled. Only for models equipped with user interface shown in fi gure 8. Se si deve sostituire l'anodo a corrente im pressa (Rif. Q), unscrew the nut, disconnect the cable and unscrew the anode from the fl ange.When you are putting it back in, replace the gasket, tighten the anode to a maximum torque of 2.5 Nm, connect the cable and tighten the relative nut to a maximum torque of 0.6 Nm.CAUTION! The reversal of the heating elements involves malfunction of the appliance.Work on one heating element at a time and remove the second only after replacing the first. Use only original spare parts. Periodical maintenance The heating element (R fig. 6) should be descaled every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to ensure it works properly (R Fig. 6) ap-proximately every two years to e away the lime deposit without dam-aging the heating element. The magnesium anodes (N Fig. 6) must be replaced every two years (this does not apply to appliances with stainless steel boilers); however, the anode should be checked every two years (this does not apply to appliances with stainless steel boilers); however, the anode should be checked every year if the water is corrosive or chloride rich. To replace them, remove the heating elements and unscrew them from the brackets. The bypass pipe (X Fig. 7, 8) is inspected in the event of fault due to its obstruction. To inspect it remove the two rings (W Fig. 7, 8). After routine or extraordinary maintenance, we recommend fi lling its tank with water and draining it com-pletely so as to remove any residual impurities. Use only original spare parts supplied by the manufactur-er's authorised service centres. Page 1316 / ENSHOWER READY FUNCTIONFor model equipped with user interface type shown in fi gure 9The product is equipped with an intelligent function to minimise water heating time. Regardless of the tem perature set by the user, the symbol " " shower ready will turn on as soon as there is enough hot water for atleast one shower (40 litres of mixed hot water at 40 °C). ANTI-FREEZE FUNCTIONThe anti-freeze function is the appliances automatic protection to avoid damages caused by very low tempe ratures below 5 °C, in the event in which the product is turned o during winter. It is recommended that the product remains plugged in to the mains power, even if is inactive for a long time. THERMAL DISINFECTION FUNCTION (Anti-Legionella) The Anti-Legionella function is activated by default. It consists of a water heating/60°C temperature mainte nance cycle for 1 hour which has a thermal disinfection action on the relative bacteria. The cycle starts when the product is started up and when it is restarted after a power outage. If the product is switched o during the anti Legionella cycle, the product is switched o, the anti-Legionella function is deactivated. If the equipment is switched o during the anti Legionella cycle, the product switches o and the function is deactivated. At the end of the cycle, the use temperature returns to the temperature previously set by the user. The activation of the anti-legionella cycle appears as a normal temperature adjustment 60°C. Activate this function by pressing and holding both the "ECO" and "+" buttons for 4 s.; once activation is con-fi rmed, the LED (Ref. 4) will fl ash quickly for 4 s. Permanently for 4 s. deactivate the function by repeating the above steps; once the deactivation is confi rmed, LED 40°c (Ref. 1) will fl ash quickly for 4 s.RESET/DIAGNOSTICS For models equipped with user interface type shown in fi gure 9When one of the malfunctions described above occurs, the appliance will enter its "fault status" and all LEDs on the control panel will fl ash simultaneously. Diagnostics: to enable the diagnostic function, press contemporary ON-OFF button (ref. A) and MINUS button for 3 sec. The type of fault is indicated by fi ve LEDs (Ref. 1-5) according to the following scheme: LED Ref. 1 - internal malfunction of the circuit board (NFC communication or NFC data)LED Ref. 3 - broken temperature probes (open or short circuited) - boiler outletLED Ref. 5 - excessive water temperature (circuit board fault) - boiler outletLED Ref. 3 and 4 - Failure to heat water with powered heating element - boiler outletLED Ref. 3, 4 and 5 - overheating caused by lack of water - boiler outletLED Ref. 2 and 3 - broken temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - general excessive water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (circuit board fault) - boiler inletLED Ref. 2, 4 and 5 - water temperature (c Ref. 2, 3 and 4 - failure to heat water with powered heating element - boiler inlet LED Ref. 2, 3, 4 and 5 - overheating caused by lack of water - boiler inletExit the diagnostic function by pressing the ON/OFF button (Ref. A) or wait for 25 seconds.Page 1418 / ENUSEFUL INFORMATIONIF the water comes out cold, have the following checked- The presence of voltage on the power terminal block (m fig. 7 And 8);- The sensor holder rods (k fig. 7 And 8);- The s The circuit board;- The amount of scale on the boiler and components;- The sensor holder rods (k fi g. 7 And 8). If the hot water mains;- The condition of the defl ector on the cold water intake pipe;- The condition of the water mains;- The condition of the water mains;- The condition of the defl ector on the cold water mains;- The condition of the defl ector on trickling from the pressure safety deviceDuring the heating phase, some water may trickle from the tap. This is normal. To prevent the water trickling, a suitable expansion vessel must be installed on the flow system. If the trickling, a suitable expansion vessel must be installed on the flow system. If the trickling continues even after the heating phase, have the following checked:- Device calibration;- The pressure of the water mains. Caution: Never obstruct the appliance outlet! IF THE PROBLEM PERSISTS, NEVER ATTEMPT TO REPAIR THE APPLIANCE YOURSELF - ALWAYS HAVETHIS DONE BY A QUALIFIED TECHNICIAN. The indicated data and specifi cations are not binding; the manufacturer reserves the right to modify them at his own discretion notifi cation or replacement. This product conforms to Directive WEEE 2012/19/EU. The symbol of the crossed waste paper basket on the appliance and its packaging indicates that the product must be scrapped separately from other waste at the end of its service life. The user must therefore hand the equipment over to a sorted waste disposal facility for electrotechnical and electronic equipment at the end of its service life. Alternatively, he may return the equipment to the retailer at the time of purchase of a new equivalent type of appliance. Electronic equipment to the retailer at the time of charge and without any obligation to purchase new product.Page 15 Zoom out Zoom in Previous page 1/24 Next page 23 / IT11121314ABGHFEDC Page 16 420011063500 - 09/2019Ariston Thermo SpAViale Aristide Merloni 45 - 60044 Fabriano (AN) ItalyTelefono 0732 6011 - Fax 0732 602331info.it@aristonthermo.comwww.aristonthermo.com

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