

ATLANTIS III

THERMOSTATIC ELECTRIC HEATING ELEMENT
FOR HEATED TOWEL
RAILS (WATER TEMPERATURE
CONTROLLER)

USER AND INSTALLATION MANUAL FOR
TOWEL RAIL MANUFACTURER OR
PROFESSIONAL
INSTALLER ONLY

This product is an electrical /
electronic component designed
to be assembled, used
and possibly replaced in case of failure
uniquely in the specific equipment
for which it is intended.

The image is for
illustration purposes
only



SUPPLIED PARTS IN EACH PACKAGING

ATLANTIS III I 2 spacer I Instruction leaflet

APPLICABLE EUROPEAN STANDARD

Electrical tests according to CEI EN 60335-1

Applicable directives:

2011/65/EU RoHS Directive,

2006/95/CE Low Voltage Directive – Safety,

UK SI 2016 No. 1101 Electrical Equipment
(Safety) Regulations 2016,

2006/95/EC Low Voltage Directive, 2004/108/EC EMC
Directive,

UK SI 2016 No. 1091 - The Electromagnetic Compatibility
Regulations 2016

REV. 01/2024

THANK YOU FOR PURCHASING “ATLANTIS”

Electric towel radiator heating element with capillary thermostat for water temperature regulation



CAUTION

GENERAL CAUTION

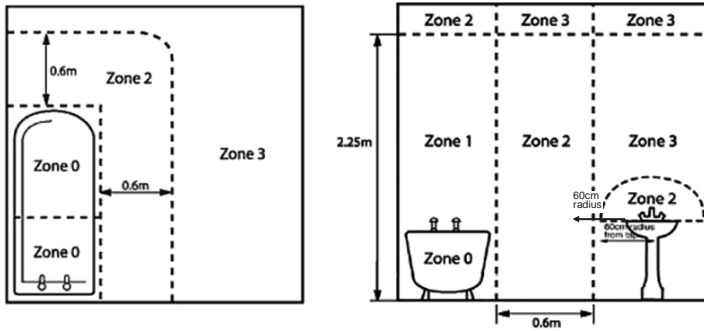
- Read the instructions carefully before install and use ATLANTIS III.
- ATLANTIS III must be installed only by expert technicians and installation must be compliant with all applicable rules, and national safety regulations and laws in force in the country where the product is installed.
- ATLANTIS III is intended to be used and installed into a towel rail. Any other use is strictly forbidden and potentially dangerous.
- ATLANTIS must be fitted before mounting the towel rail to the wall.
- Do not connect ATLANTIS III to the power supply until the installation into a properly filled towel rail is completed.
- ATLANTIS III must only be fitted vertically from the bottom of the towel rail.
- Do not cut the power supply cable to switch ATLANTIS OFF.
- Make sure that the power lines are appropriate for the load required.
- ATLANTIS III is designed for use with water, water+glycol filled towel radiators.
- Any contact between plastic parts of ATLANTIS III and chemical products or alcohol (including the water or the mixture water+ glycol inside the tower rail) must be avoided.
- Installation must be carried out in accordance with conditions described in the Technical specification table (page 4).
- ATLANTISII power must be carefully selected in proportion to function of the towel rail size and thermal output. To select ATLANTIS III electrical power, please refer to the towel rail manufacturer instructions when a certification related to the complete system (according to EN 60335-2-43) issued by an European recognized institute (like SEMKO, VDE, IMQ...) is available. In case of missing towel rail manufacturer certification, refer to EN 60335-2-43 to determine the correct ATLANTIS III power to be installed in the towel rail.
- For any other technical details and requirements, please refer to the distributor/seller.
- In case of any doubts or insufficient information, please do not install or use ATLANTIS III and contact the distributor/seller.
- ATLANTIS III is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they benefit by a person responsible for their safety, monitoring or instruction on the use of the appliance. You should monitor children to ensure that they do not play with the appliance.

SAFETY WARNINGS



- ATLANTIS III is a class I appliance and is protected against water ingress according to its IP X4 degree of protection. The towel rail where ATLANTIS III is fitted must be mounted inside the zone of the bathroom according to its IP degree of protection and electrical legislation in force. In case of doubt about the correct installation zone, refer to the relevant public institution.
- Switch the mains off before any installation, de-installation or maintenance operation on ATLANTIS III.

Fig.



SAFETY INFORMATION

- Do not install ATLANTIS III into a towel rail fitted in ZONE 0 or ZONE 1 (Fig.1).
- **IMPORTANT:** Always disconnect the electricity supply from the mains during installation and maintenance. It is recommended that the fuse is withdrawn or circuit breaker switched off at the distribution board while work is in progress (turning off the switch is not sufficient).
- Verify that the rated voltage of ATLANTIS III is the same as the supply voltage.
- Make sure that the ATLANTIS III is correctly earthed according to the standard in force.
- Check that the electricity supply system is connected through an MCB (Magnetothermic Circuit Breaker) and RCCB (Residual Current Circuit Breaker) devices.
- ATLANTIS III MUST NOT BE POWERED IN AIR.
- ATLANTIS III is intended to work only if completely immersed in the liquid (water) inside the towel rail.
- Do not touch the metallic parts of ATLANTIS III if it is powered; before maintenance and de-installation operation wait the necessary time to ensure it is cold after it is switched off.
- In 'Electric only' ATLANTIS III installation the towel rail MUST have a sufficient air gap to allow for water expansion.

MAIN RECOMMENDATION ON ELECTRICAL TOWEL RAIL

(Applicable standard EN 60335-2-43)

- The electrical towel rail is intended only for dry towels washed in water. Any other use is forbidden.
- In 'Electric only' ATLANTIS III installation, fill the towel rail with a certain percentage of water according to the towel rail manufacture instructions. In case of missing instructions, we recommend to fill the towel rail approximately 90% with water to allow for expansion; making sure that the ATLANTIS III heating element is completely immersed in water. Addition of glycol and possibly an inhibitor is recommended, as part of this percentage mix.
- It is recommended to use in any installation (Electric only and Dual fuel installations) a self relief pressure valve (like 3 Bar valve) on the top part of the rail in the opposite side where the ATLANTIS III is installed. In case of valve intervention, it is quite normal for liquid relief and water excess to possibly reach the floor. Please, take this aspect into consideration.
- In 'Dual-fuel' installation with central heating and ATLANTIS III, at least one of the rail valves must always be left open, when the electrical element is switched on.
- The electrical towel rail is not intended to be installed in constant humid and tropical climates.
- The electrical towel rail is not intended for heating greenhouses or construction sites.
- The electrical towel rail is not designed to be filled with liquid by the user.
- The electrical towel rail is not intended for built-in.
- For all other aspects, refer to EN 60335-1 and EN 60335-2-43.

GUARANTEE

ATLANTIS III is guaranteed for 12 months from any manufacturing defects, from the date marked on it. The guarantee of ATLANTIS is not valid in case of improper use or installation.

PRODUCT PRESENTATION

ATLANTIS III is a self regulating PTC heating element integrating a thermomechanic capillary thermostat to regulate water temperature in electric towel rails with heat transfer fluid. The control is assembled with PTC Class I heating element and a capillary thermostat bulb as a complete mounting kit including a 3G PVC cable.

The unit can be connected to a fully electric towel radiator or a hybrid electric-hot water heater (dual fuel, central heating radiator).

The symmetric design makes it suitable either for ladder type electric towel rails, as well as with traditional electric towel rails.

ATLANTIS III is complete with:

- an LED which is ON when the product heating element is working.
- a rotating knob to set the towel rail water temperature.

ATLANTIS III senses the water temperature around the area where the capillary bulb is located and is not intended to create a uniform thermal distribution over the whole electrical towel rail surface.

NOTE:

According to the geometry, treatment, construction material and liquid (water or water and glycol) of a specific electrified towel rail with ATLANTIS III the thermal distribution can be significantly different. For specific performance, you must refer to the towel rail manufacturer or carry out specific tests

SYMBOLS AND GLOSSARY

ATLANTIS III:

is a PTC heating element integrating a capillary thermostat to regulate water temperature in electric towel rails.

ATLANTIS III REGULATING BOX:

the plastic parts which contains the thermomechanic capillary thermostat.

ATLANTIS III NIPPLE:

the metallic part of ATLANTIS connecting the ATLANTIS heating element and ATLANTIS III regulating box.

CAPILLARY BULB:

the sensor integrated into ATLANTIS III which measures the water temperature.

LED: the lamp placed over the knob to show the ATLANTIS status.

GLYCOL:

a substance which can be mixed with water and is normally used as antifreeze protection of the electrical towel rail.

3 BAR VALVE:

a self relief pressure valve which limits the pressure at 3 bar.

SPACER:

element that keeps the distance between pipe and resistor.

TECHNICAL DATASHEET

PTC SPECIFICATION

White or Chrome regulating box	
Power (W)	Length (mm)
150	230
300	390
500	500
600	640
800	740

TECHNICAL SPECIFICATION TABLE

Operating voltage	230V \pm 10% AC 50 Hz
Heating Element Power	150W-300W-600W-800W
Insulation class	Class I
IP Degree of protection	IPX4
Operating Ambient Temperature	0°C ÷ 40°C
Storage Temperature	- 20°C ÷ 80°C
Max Humidity Level	85% at 25°C without condensates
Water Temperature Regulation	ON/OFF [5°C ÷ 70°C] \pm 5°C with bimetallic capillary thermostat
Nipple thread	1/2" Gas cylindrical

INSTALLATION



BEFORE YOU START

- Check the pack to ensure you have all of the parts listed on pag.1 with no visible signs of damage. If any of the part is missing or appears damaged, you should return them to the point of purchase.
- Check that you have the correct size ATLANTIS III for your towel rail. IT IS ESSENTIAL that the correct sized ATLANTIS III is installed in line with the recommendation stated on the packaging or instruction of your towel rail CERTIFIED BY A EUROPEAN RECOGNISED APPROVAL INSTITUTE. IF YOU ARE NOT SURE OF THAT, PLEASE REFER TO CONTACT SECTION OR FOLLOW GENERAL WARNINGS SECTION.
- When you are ready to start, make sure that you have the right tools at hand, plenty of space and a clean dry area for assembly.
- Installation must be carried out in accordance with current standards and laws in force in the country in which the system is installed.
- Make sure that the towel rail female 1/2" GAS thread is sufficiently deep (minimum 10mm) in order to secure a watertight ATLANTIS III gasket.

INSTALLATION WARNINGS

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- All-pole disconnection from the supply is required, incorporated in the fixed wiring. Switches intended to ensure all-pole disconnection must be directly connected with the supply terminals and must have a contacts distance of at least 3 mm in each pole.
- Electrical towel rail must not be installed with the ATLANTIS III regulating box located at the top. This can seriously damage the control box and create a dangerous situation with a risk of fire.
- Follow the conventional colours for wiring operations if no plug is present.

Brown	Live Wire
Blue	Neutral Wire
Yellow - Green	Earth

- The electricity supply must be adequate to support the required power.
- Protect the electricity supply with an RCCB (Residual Current Circuit Breaker) device.
- All metallic parts of the electrical towel rail fitted with ATLANTIS and powered must not exceed the temperature limits according to the applicable standard EN 60335-2-43 also in case of broken capillary thermostat control that continuously powers the heating element.
- ATLANTIS III yellow/green earth wire must be connected to the corresponding yellow/green ground wire of the electricity supply at the mains. (THIS PRODUCT MUST BE EARTHED)
- Don't use the ATLANTIS III regulating box to lean the electrical towel rail on the floor as you can damage the plastic and water can penetrate inside with a risk of electrical shock.
- The electrical heating element must be permanently connected to a suitable electricity supply by way of the cable provided. This should be via a fused spur in accordance with the IEE Wiring Regulations (BS7671). If sited in the bathroom, the Fused Connection Unit must be located out of reach of persons using the basin, shower or bath. If in doubt, consult a qualified electrician.
- Connect the ATLANTIS III control unit to the mains using a BS Fused Connection Unit.
- The Fused Connection Unit should be fitted with a 5 Amps fuse to BS1362.



TOWEL RAIL INSTALLATION WARNINGS

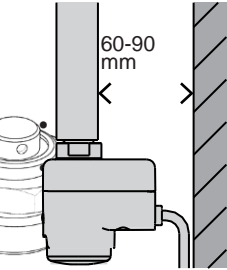


Fig. 2

- The Towel rail has to be mounted parallel to the wall using the brackets recommended by the towel rail manufacturer. The distance between ATLANTIS III and the wall must be between 60 and 90 mm (Fig. 2). In order to avoid a hazard for younger children, the electrical towel rail should be installed so that its bottom part is at least 600mm above the floor according to EN 60335-2-43/A1.
- ATLANTIS III must be fitted to the towel rail before mounting the rail to the wall.
- Wrap a small quantity of PTFE tape around the ATLANTIS III heating element thread and the T-piece thread (in case of Dual Fuel installation).
- Make sure that the towel rail is fitted with a component (like 3BAR Valve) which limits the risk of excessive pressure.

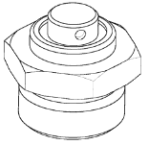


Fig. 3 3 bar valve

- The 3BAR valve (Fig. 3) must be installed on the top part of the towel rail.
In case of 'Dual fuel' installation, a T-piece of 40mm maximum length (male thread excluded) is required.
- The Spacer (B) must not be hit, moved or removed during the installation of the towel heater (electric only ATLANTIS installation).
- The Spacer must not be torn, and must show no imperfections.

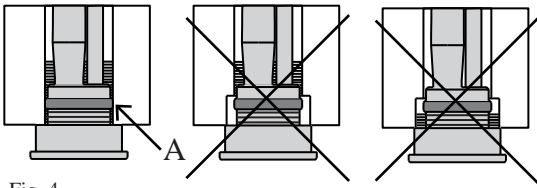


Fig. 4

The gasket (A) must be completely
screwed into towel rail thread

INSTALLATION STEPS

ELECTRIC ONLY ATLANTIS INSTALLATION

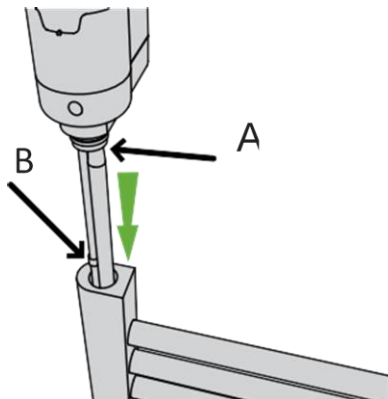
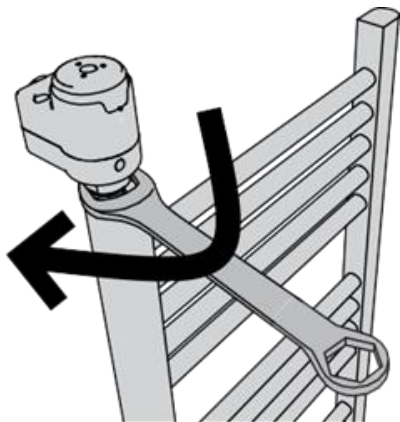


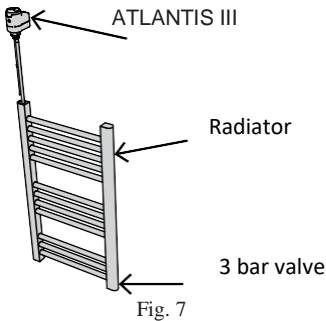
Fig. 5

Fig. 6

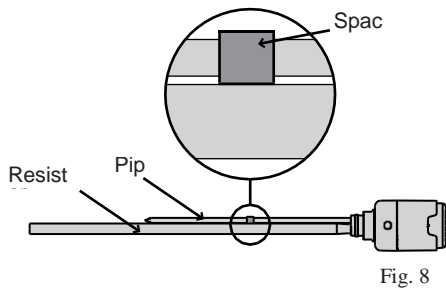


1. Reverse the empty towel rail carefully leaning it on a soft cloth/ surface and fill it properly.
2. Take the ATLANTIS III from the package, handling with care.
3. Insert the tip of ATLANTIS III heating element into the bottom hole of the towel rail as shown and make sure to select the female $\frac{1}{2}$ " GAS thread of the towel rail in the opposite vertical tube to where the 3 Bar valve is installed (Fig. 5).
4. Insert the ATLANTIS III heating element all the way.
5. Then using a 27 mm spanner screw the ATLANTIS III heating element until the last nipple thread turn and if necessary continue in order to have the regulating box facing forward (Fig. 6).

Make sure that the ATLANTISII gasket is fully sealed to the female thread of the towel rail (Fig. 4).



6. Install properly the electrified towel rail with the ATLANTIS III into the wall according to towel rail manufacturer instructions. Make sure that the towel rail has the ATLANTIS III bottom side.
7. Verify that no water leakages occur and re-tighten joints as necessary. Make sure that ATLANTIS III parts are completely dry before proceeding with the installation (in case of water leakage refer to DANGEROUS CONDITION AND RISK section).
8. Make sure that the power lines are appropriate for the load required.
9. Connect the ATLANTIS III cable to the mains power according to current wiring regulations in force in the country where the product is installed.



DUAL FUEL INSTALLATION CENTRAL HEATING AND ATLANTIS

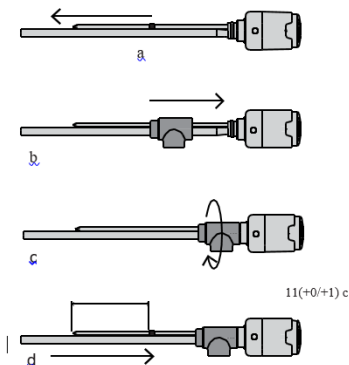


Fig. 9

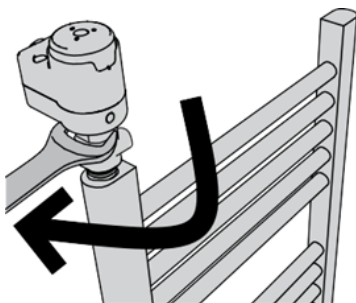


Fig. 10

1. Reverse the empty towel rail carefully leaning it on a soft cloth/ surface.
2. Take the ATLANTIS III from the package, handling with care.
3. Remove the spacer without damaging it (Fig. 9a). Do not use tools or lubricants. Use gloves. Ensure that the pipe and the resistor are not bent and stay parallel to each other.
4. Insert the T-piece in the ATLANTIS III (Fig. 9b), screw and tighten it firmly (Fig. 9c). Do not use tools.
5. Insert the spacer to the distance shown in the Figure (Fig. 9d). If the spacer is damaged, replace it. Do not use tools or lubricants. Ensure that the pipe and the resistor are not bent and stay parallel to each other.
6. Insert the tip of the ATLANTIS III heating element into the bottom hole of the towel rail as shown and make sure to select the female ½" GAS thread of the towel rail in the opposite vertical tube to where the 3 Bar valve is installed.
7. Then using a 27 mm spanner turn the T-piece with screwed ATLANTIS III heating element until the last nipple thread turn and if necessary continue in order to have the regulating box facing forward (Fig. 10).
8. Make sure that the ATLANTIS III gasket is fully sealed to the female thread of the towel rail.
9. Install properly the electrified towel rail with the ATLANTIS III into the wall and connect it to the central heating system according to towel rail manufacturer instructions. Make sure that the towel rail is properly filled and the ATLANTIS is on the bottom side.

10. Verify that no water leakages occur and re-tighten joints as necessary. Make sure that ATLANTIS III parts are completely dry before

proceeding with the installation (in case of water leakage refer to DANGEROUS CONDITION AND RISK section).

to the mains power according to current wiring regulation in force in the country where the product is installed.

11. Connect the ATLANTIS III cable

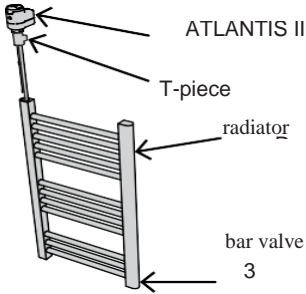


Fig. 11

ATLANTIS III POSITION

The figures (Fig. 12) show the optimal positions for the ATLANTIS III. Any other position is the responsibility of the installer and must be tested.

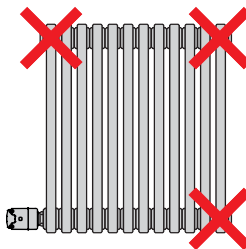
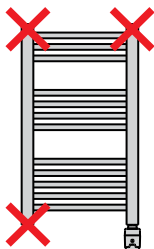
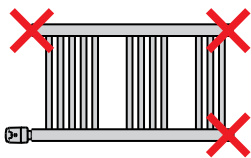


Fig. 12

NOTE: If the ATLANTIS III regulation box is not facing forward, it is possible to rotate the element until it faces the correct position (Fig. 13); however do not exceed the rotation angle by more than 180° degree. If the rotation angle is exceeded, the gasket seal must be replaced.

Check that the heating element is completely immersed in the liquid.

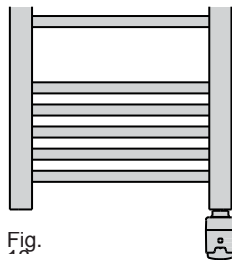


Fig.

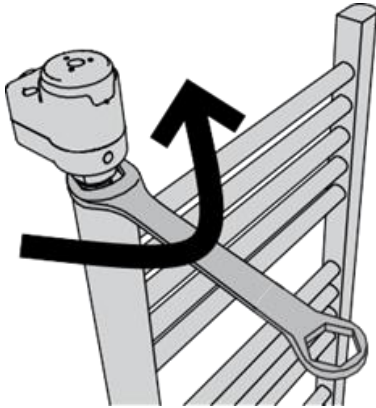


Fig. 14

IN ELECTRIC ONLY ATLANTIS III INSTALLATION

1. Disconnect the cable from the mains power.
2. Remove the electrical towel rail from the wall and reverse it carefully leaning it on a soft cloth/surface.
3. Using a 27 mm spanner unscrew the ATLANTIS III, rotating it anticlockwise until the ATLANTIS III thread is completely off from towel rail $\frac{1}{2}$ "GAS female thread (Fig. 14).
4. Remove the ATLANTIS III from the towel rail.

DUAL FUEL INSTALLATION (CENTRAL HEATING AND ATLANTIS III)

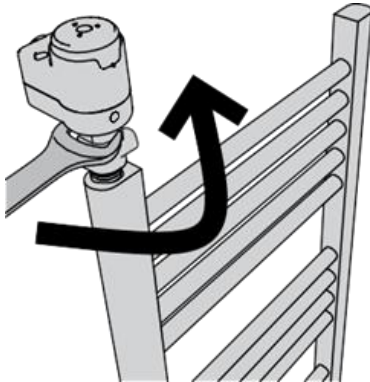


Fig. 15

1. Disconnect the cable from the mains power.
2. Close both rail valves, remove the water from the towel rail and dry the working area.
3. Remove the towel rail from the wall and reverse it carefully leaning it on a soft cloth/surface.
4. Using a 27 mm spanner unscrew the T-piece with screwed the ATLANTIS III, rotating it anticlockwise until T-piece thread is completely off from towel rail $\frac{1}{2}$ "GAS female thread (Fig. 15).
5. Remove spacer.
6. Remove T-piece with screwed the ATLANTIS III from the towel rail.

WARNING:

AFTER DISCONNECTING, ATLANTIS CANNOT
BE REUSED.

REPLACE THE PRODUCT WITH A NEW ONE

USAGE

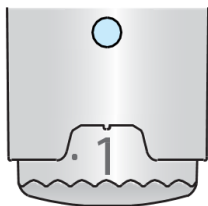
USAGE WARNINGS

The ATLANTIS III incorporates a capillary thermostat bulb sensor to measure the water temperature. The LED is ON when the heater is working.

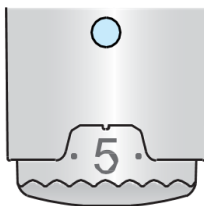
WORKING DESCRIPTION

HOW TO USE

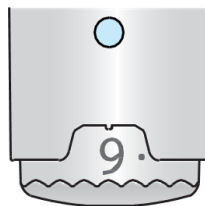
- ATLANTIS has a knob which is used to select the desired temperature of the Towel rail water: temperature setting
- Between [$5^{\circ}\text{C} \div 70^{\circ}\text{C}$] $\pm 5^{\circ}\text{C}$ (Fig. 16).
- The LED is ON when the heater is working.



Min. position
 $5^{\circ}\text{C} \pm 5^{\circ}\text{C}$



Intermediate position



Max. position
 $70^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Fig. 16

IMPROPER USE

All different usages which are not described in the “PRODUCT PRESENTATION” section according to the USAGE section, are to be intended as improper usage. In case of doubts refer to the seller.

Never switch the ATLANTIS III ON if the towel rail is empty.

Before installation, never switch the ATLANTIS III ON to verify heating effectiveness.

DANGEROUS CONDITION AND RISKS

During installation, de-installation and maintenance, ensure working place safety until the operation is completed. Don't use excessive force to turn the knob as you risk to break it.

In case of anomalous or strange working condition or if ATLANTIS has visible signs of damage disconnect the ATLANTIS III and send it to the seller for investigation or replacement. If the ATLANTIS III regulating box shows some plastic cracks, please, contact the seller for replacement.

ATLANTIS III power supply cable cannot be repaired. If it is damaged, contact the seller to replace the complete ATLANTIS III unit. Never try to modify or repair the ATLANTIS III in any of its parts by yourself.

Never try to remove the knob as water can penetrate inside the ATLANTIS III regulation box resulting in a risk of electrical shock. Never knock the ATLANTIS III against anything. Handle with extreme care during every operation and never leave it in wet areas

MAINTENANCE

Ordinary

At regular periods of time, depending on the usage of the product ATLANTIS III:

Turn the regulating knob at maximum and minimum level to check if working properly.

Pay particular attention to verify that there is no water leakage checking the visible and exposed ATLANTIS III parts. If at least one of the above controls fails, refer to Dangerous condition and risks section.

Extraordinary

We recommend the replacement of ATLANTIS III (into the specific towel rail) every 5 years.

CLEANING

To clean ATLANTIS III, use only a dry and clean soft cloth.

Make small locally round movements.

Apply a light pressure especially to the chrome plastic surfaces to avoid potential scratches.

DIAGNOSTIC

If the ATLANTIS III regulation mode is selected at maximum temperature and the towel rail doesn't heat at all, this may indicate operation failure and the product must be replaced.

If LED is ON but the towel rail doesn't heat, waiting 2 hours. If the situation doesn't change, contact the customer service.

SPARE PARTS

ATLANTIS III must be replaced totally as it has no spare parts.

IMPORTANT: In case of doubts, please, contact the Seller or refer to Contacts section.

IMPORTANT: Please, retain these instructions for future reference

NOTES FOR DISPOSAL OF THIS PRODUCT VALID FOR THE EUROPEAN UNION



The crossed-out wheeled-bin symbol on your product reminds you that in the European Union all electrical and electronic products and batteries must be taken to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste. Return the products to collection to prevent possible harm to the environment or human health from uncontrolled waste disposal and to promote the sustainable reuse of material resources. Collection information is available from the product retailer, local waste authorities or national producer responsibility organizations. For more information, see product country-specific information.

The manufacturer declines all responsibility for any inaccuracies in this document due to printing or transcription errors. It reserves the right to make any alterations to its products deemed necessary or useful. This document or any part of it cannot be copied, edited or reproduced without written authorization from the manufacturer.