

AquaReturn[®]



CONTENTS	PAGE
1 • BEFORE USING AQUARETURN	2
2 • INTENDED USE	2
3 • PROTECTING THE ENVIRONMENT	2
4 • WARRANTY AND TERMS	2
5 • SAFETY INFORMATION	4
6 • HOW AQUARETURN WORKS	5
7 • WATER AND POWER SUPPLIES	5
8 • INSTALLATION LOCATION	7
9 • INSTALLATION INSTRUCTIONS	7
10 • USING AQUARETURN	9
11 • WAYS TO ACTIVATE AQUARETURN	10
12 • USEFUL AUTOMATIC MECHANISMS	11
13 • CARE AND MAINTENANCE	13
14 • TROUBLESHOOTING	13
15 • TECHNICAL DATA	14
16 • EU DECLARATION OF CONFORMITY	15

1 • BEFORE USING AQUARETURN

Dear customer:

Before using AquaReturn for the first time, please read and follow the instructions in this manual. Keep this manual for future reference and pass it on to any subsequent owners.

2 • INTENDED USE

AquaReturn is an appliance designed to save the water and energy that is inevitably wasted while we wait for hot water to run from a tap.


Once you instal AquaReturn, only hot water will flow from your hot-water tap.


AquaReturn is only designed for use in homes that have their own boiler, furnace or water heater. It should not be used with a communal boiler supplying hot water to an entire building.

AquaReturn does not heat or accumulate water. It controls the hot water coming from the boiler, furnace or water heater installed in your home. There is no need for any alterations to your existing water heating system or to the hot and cold water pipes already installed in your home.

The appliance is fitted under the washbasin and is activated when you turn on the washbasin hot-water tap. Hot water becomes available in all the taps in the bathroom, with minimal water loss.

3 • PROTECTING THE ENVIRONMENT

 The packaging materials are recyclable. Please do not dispose of the packaging materials in domestic waste. Take them to your nearest recycling collection point.

 Used equipment and appliances potentially contain valuable materials that should be recycled. For this reason, please dispose of them at a suitable recycling collection point.

4 • WARRANTY AND TERMS

The warranty terms established by our company are valid in all countries and cover a period of TWO YEARS from the date of purchase. Appliance breakdowns will be repaired free of charge within the warranty period, provided these are due to defects in material or manufacture.

The warranty will be automatically invalidated by evidence of manipulation of the

appliance and also if the labels are removed from its components, as these are used for control purposes.

- 1 • Any claim against this warranty must be supported by a receipt or other proof of purchase. To make a claim, please deliver your AquaReturn appliance to our factory or your nearest distributor.
- 2 • The warranty covers labour costs and defective parts, provided that the appliance has not been manipulated inappropriately (used in an unintended way, damaged by a blow, etc). The appliance must also be returned in the original packaging.
- 3 • The warranty does not cover parts damaged or broken for reasons inherent to use of the appliance (such as power surges) or if the appliance is incorrectly installed.
- 4 • In the event of problems with the appliance, follow the procedures below.

Case A: PURCHASE THROUGH A DISTRIBUTOR

Call the AquaReturn Technical Service if you are in Spain (Telephone 965 633 353); otherwise contact the distributor for your country. Staff will help you decide exactly what the problem is. If the appliance is defective, you will be asked to return it together with proof of purchase to the distributor you bought it from. If the appliance is still under warranty, it will be returned to the manufacturer. The Technical Service will determine the nature of the defect and will either replace or repair the appliance. If the defect is covered by the warranty, the appliance will be repaired or replaced free of charge. If the defect is not covered by the warranty, the customer can decide whether to pay for appliance repair.

Case B: PURCHASE THROUGH THE WEBSITE

Call the AquaReturn Technical Service if you are in Spain (Telephone 965 633 353) or the distributor for your country to find out whether the problem can be resolved over the phone. If not, you will be asked to send an email to serviciotecnico@aquareturn.com, describing the problem and providing an address from where our home collection service can pick up the appliance. If the appliance is still under warranty and has not been tampered with or mishandled, you will not be charged for transport. Note, however, that the free collection service is only available in Spain.

If the manufacturer decides that the defect is not covered by the warranty, the customer can decide whether to pay for appliance repair and transport.

- 5 • Products may not be returned more than 15 days after the date of purchase.

AQUARETURN SL accepts no responsibility for any damage resulting from incorrect installation or water damage.

5 • SAFETY INFORMATION

DANGER!

You can be killed or seriously injured if you do not immediately follow instructions.

- Never touch mains plugs or electrical outlets with wet hands.
- Do not switch on the appliance if the mains connection cable or other important parts of the appliance, such as the casing or safety mechanisms, are damaged.
- Periodically check the mains cable and the power plug for any damage. If the mains cable becomes damaged or worn, contact the Technical Service immediately to request a replacement.

WARNING!

You can be killed or seriously injured if you do not follow instructions.

- Do not, under any circumstances, immerse the appliance or its plug in water.

IMAGE 1

- AquaReturn must never be installed in the area marked Volume 1, nor in volume 2.
- Instal AquaReturn in the area marked Volume 3, at a distance of 60 cm (24 inches) from the bath or shower.
- Do not use the appliance in areas where an explosion hazard exists.
- If you plan to use this appliance in what are rated as hazardous areas (e.g. petrol stations), make sure to comply with all applicable safety standards.
- Always follow the manufacturer's instructions when using this appliance and also take local conditions into account.

CAUTION!

You may be injured or property may be damaged if you do not follow instructions.

- Do not use the appliance if the water pipes are frozen.
- Do not switch off or unplug the appliance from the mains supply if it is not used for a long time, as it has a timed anti-blocking system that prevents the pump and solenoid valves from blocking due to disuse.
- Do not damage or break the mains cable by crushing, pulling or stepping on it, etc. Protect the mains cable from heat, oil and sharp objects or edges.
- Only connect the appliance to an electrical wiring system as installed by a qualified electrician in compliance with the IEC 60364 standard. Ask in your area about your own regulations.
- Only connect the appliance to alternating current. Voltage and frequency must correspond to the values indicated on the rating plate of the appliance.

SAFETY FEATURES

CAUTION! Safety mechanisms are incorporated in the product for your protection and should not be modified or ignored.

POWER SWITCH ONLY IN EUROPE MODEL (EXCEPT UK).

The power switch on the AquaReturn plug works for both the AquaReturn appliance and the second plugged-in appliance. The two appliances must not exceed a combined total current of 16 amps (3680 watts at 230 volts).

Note that, to avoid wasting electricity, the red switch does not light up.

6 • HOW AQUARETURN WORKS

AquaReturn recirculates water that has not reached the desired temperature back to where it should be, which is in the cold water pipe. In other words, water is classified by its temperature so it can be sent where it belongs.

The AquaReturn appliance is usually fitted under the washbasin, between the shut-off valves and the flexible connectors to the taps.

7.1 • WATER SUPPLIES

For AquaReturn to function properly, you first need to check that your home has sufficient water pressure. The pressure for homes in Spain, according to the main Technical Building Codes (see table), is 1 to 5 ATMs/BAR (1-5 Kg/cm² / 14.7-73.5 Lb/in²). If you are using the appliance outside Spain, consult the corresponding specifications for your country.

AquaReturn is designed to work correctly at pressures of 1 to 5 ATMs (1-5 Kg/cm² / 14.7-73.5 Lb/in²), although it is designed to support pressures up to 10 Kg/cm² (73.5 Lb/in²).

HS4-2 2.1.3 MINIMUM SUPPLY CONDITIONS

TABLE 2.1 MINIMUM INSTANT FLOW FOR DIFFERENT FIXTURES

Fixture	Minimum instant flow cold water	Minimum instant flow hot water
Washbasin	6 (L/min)	3,9 (L/min)
Sink	12 (L/min)	6 (L/min)
Standard bath (>1.40 M)	18 (L/min)	12 (L/min)
Small bath (<1.40 M)	12 (L/min)	9 (L/min)

Minimum pressure at supply points:

Standard taps 1 Kg/cm² (14.7 Lb/in² = 0.05 MPa = 0.5 ATM)

Water heaters 1.5 Kg/cm² (22.0 Lb/in² = 0.15 MPa = 1.5 ATM)

Pressure should not exceed 5 Kg/cm² (73.5 Lb/in²)

Water supply shut-off valves should be fully opened to ensure proper recirculation. Pipes should allow water to circulate properly. If they are partially blocked by limescale AquaReturn may not work properly. Some gas boilers function weakly when just one hot-water tap is opened and so it may be necessary to turn on several taps at once.

It is very important to first resolve any such problems with pipes or boilers. AquaReturn cannot overcome or resolve problems with blocked pipes, boilers that fail to start properly or low water pressure.

NB! AquaReturn is designed to allow the occasional particles that enter the appliance to pass through to taps or aerators.

If there is some obstruction, you will hear continuous beeping (after the normal beeping). If opening and closing the tap several times does not resolve the problem, take the appliance to AquaReturn's Technical Service (or to your local distributor) where the problem can be resolved quickly, provided the appliance has not been obstructed for a long period of time.

Installing filters for the water supply to your home is very beneficial, as these protect AquaReturn and any other household appliances that use mains water.

AquaReturn uses standard 3/8-inch or 1/2 inch water connection fittings.

To connect AquaReturn to the mains water supply, attach the two female connectors on the underside of the appliance to the shut-off valves in the wall. Do not use plumber's PTFE tape as it may affect the fitting of the seals.

Connect the two male fittings on the top of the appliance to the flexible connectors attached to the washbasin taps. Do not use plumber's PTFE tape for this purpose, as it may affect the fitting of the seals in the flexible connectors.

Plumbing regulations stipulate that, when viewed from the front, the hot-water shut-off valve must be on the left and the cold water shut-off valve must be on the right.

To check whether the shut-off valves have been installed properly, run the left tap and wait for hot water to come through to ensure that the left valve supplies the hot water.

7.2 • POWER SUPPLIES

The unit is fitted with a Schuko-type plug for mains connection, earthed in some versions. **IMAGE 2.** For other countries we have different plugs. **IMAGE 3.**

AquaReturn is designed to work only at the indicated voltages and frequencies.

Please refer to the rating plate on the appliance and the TECHNICAL DATA section of this manual.

 **DANGER!**

Switch off the appliance and unplug it before installation.

8 • INSTALLATION LOCATION

Before installation you need to decide on the best place to locate AquaReturn. Use the included template.

The appliance measures 22.3 cm wide x 14.2 cm high x 12.8 cm deep.

There should be free space of at least 19 cm between the shut-off valves and the underside of the washbasin. **IMAGE 5.**

There should be free space of at least 14 cm between the wall and the washbasin drain pipe. **IMAGE 6.**

9 • INSTALLATION INSTRUCTIONS

Once the above preparations have been made, instal AquaReturn as described below.

AQUARETURN DOES NOT NEED TO BE ATTACHED TO THE WALL IF IT CAN SIT ON THE TWO SHUT-OFF VALVES FOR THE WATERBASIN OR IF IT CAN SIT ON SOME STABLE SURFACE. IMAGE 6.

CASE A. There is enough space for AquaReturn above the shut-off valves.

1 • Close the shut-off valves under the washbasin and loosen the nuts on the two flexible connectors.

2 • CHECK THAT THE SHUT-OFF VALVES ARE VERTICALLY ALIGNED. IMAGE 7.

Sit a ruler or similar straight-edged object on the shut-off valves to check alignment.

If necessary, use an appropriate wrench and gently turn the valves in a clockwise direction. **IMAGE 8.**

NB! This operation is best performed by an expert.

3 • Sit the appliance on the shut-off valves. First connect the sliding right-hand fitting and then the fixed left-hand fitting. That allows AquaReturn to be adapted to distances between shut-off valves of 5.5 cm to 15 cm. **IMAGE 4 & IMAGE 5.**

For distances of more than 15 cm, use two or four AquaReturn flexible connectors to connect the shut-off valves to the fittings on the underside of the appliance. **IMAGE 9.**

NB! Please note that these AquaReturn flexible connectors (supplied as optional extras) are specially designed for AquaReturn. Correct operation cannot be guaranteed if smaller sections are used.

To ensure that water does not leak out, use a wrench to tighten the fittings, taking care, however, not to damage them. (*)

4 • Attach the left and right flexible connectors for the taps to the left and right fittings on the upper part of the appliance. Do not cross them as otherwise cold water will come out of the hot tap and vice versa. Make sure there are no kinks in the connectors that might damage them or cause AquaReturn to function incorrectly. Tighten the fittings - taking care not to damage them - with a wrench so that water does not leak out.

If you are unsure how to do the installation properly, we recommend that you seek help from an authorized AquaReturn technician. Details can be found on our website or obtained from the distributor who sold you the appliance.

Open the shut-off valves, then slowly run the water for a few seconds to purge any air trapped in the pipes.

CASE B. There is not enough space for AquaReturn above the shut-off valves OR you want to instal AquaReturn at a distance from the shut-off valves.

1 • Close the shut-off valves under the washbasin and loosen the nuts on the two flexible connectors.

2 • Fit the AquaReturn flexible connectors onto the shut-off valves, leaning them to the left or right depending on where you plan to attach the appliance to the wall.

NB! Please note that these AquaReturn flexible connectors (supplied as optional extras) are specially designed for AquaReturn. Correct operation cannot be guaranteed if other brands are used.

3 • Use the template provided (supplied with the AquaReturn appliance), superimposing the tap flexible connectors and the AquaReturn flexible connectors for the shut-off valves and marking the desired position of the appliance on the wall. This will ensure that all four connectors reach the appliance correctly.

You can add more AquaReturn flexible connectors as necessary to obtain more length.

NB! Please note that the flexible connectors that connect the water supply to the AquaReturn appliance must be AquaReturn flexible connectors, whereas those used for connection to the taps can be any brand.

4 • Use a pointed object to knock out the pre-punched holes at the back of the AquaReturn casing. Use two holes to hang it horizontally. **IMAGE 9.**

5 • Drill holes in the wall for wall plugs, insert screws or hooks and slot these into the holes at the back of the AquaReturn.

6 • Continue as described in the previous section.

AquaReturn can also be positioned on a shelf. However, insert a cloth or other material under the appliance to absorb the sound.

NB! If your bathroom has general stopcocks, make sure that both the hot and the cold valves are fully open so that the water recirculates correctly.

10 • USING AQUARETURN

1 • Connect the AquaReturn power plug to the nearest electrical socket. **IMAGE 2 & IMAGE 3.**

2 • A • EUROPEAN MODEL EXCEPT UK. Flip the power switch on the AquaReturn plug, designed to allow you to safely plug in and switch on/off another appliance without the need for an adaptor.

NB! Total current should not exceed 16 amps (3680 watts at 230 volts).

When you switch on the power, you will hear a short beep to indicate that AquaReturn has been activated. A second beep five seconds later (once water temperature has reached 35°C) will indicate that AquaReturn is ready to operate.

2 • B • USA/UK/ BRASIL MODEL. When you plug the socket you you will hear a short beep to indicate that AquaReturn has been activated. A second beep five seconds later (once water temperature has reached 35°C) will indicate that AquaReturn is ready to operate.

3 • The appliance is fully automatic. All you need to do to decide which of two ways you want to activate it.

11 • WAYS TO ACTIVATE AQUARETURN

A • Turn the washbasin hot-water tap on and then off.

Open the tap fully then close it. When hot water (35°C / 95°F) reaches AquaReturn, two short beeps and one long beep will tell you that hot water is available, although the hot water will not come out until you open the tap again.

B • Turn the washbasin hot-water tap on and leave it on.

Open the tap fully. When hot water reaches AquaReturn, the water-saving mechanism will automatically release it (you will hear the sound of water) and two short beeps and one long beep will confirm that that the tap is running hot water.

NOTE 1: If, after activating the appliance by opening the tap, you change your mind and no longer want hot water or simply made a mistake and wanted cold

water, you can stop the recirculation process by switching off or unplugging the device.

NOTE 2: The outflow of hot water for the tap under which AquaReturn is installed will be slightly reduced. For a washbasin this is not important, as maximum outflow is rarely needed. The outflow from other bathroom taps (showers, bathtubs, etc.) will not be affected.

Once hot water is available from the washbasin tap, whether via system A or B, it will also be available from any other hot-water tap in the bathroom - at virtually the same time and without wasting either water or energy.

AquaReturn will not start unless you turn on the hot-water tap to which the appliance is connected.

We recommend fitting AquaReturn under the bathroom washbasin as this is typically located close to a power point and the installation here is safer, easier and more convenient. This means, however, that you need to activate AquaReturn from this washbasin hot-water tap.

In homes with two bathrooms side-by-side AquaReturn can be installed in one bathroom and activated from there - for both bathrooms - by turning this AquaReturn hot tap on and off.

If the hot-water pipes between the boiler and the bathroom first pass through the kitchen, then activating AquaReturn in the bathroom (turning the hot tap on, then off) will also deliver hot water to the kitchen sink. This is because AquaReturn controls the entire hot-water system from the water heater to the bathroom.

An AquaReturn appliance can also be installed under the kitchen sink to save water and energy in this frequently used part of the house, although note that the hot-water flow may be reduced.

We recommend installing AquaReturn in the most frequently used bathroom in your home. If this happens to be the furthest bathroom from the water heater, AquaReturn will control all the hot-water taps installed in between.

Hot water will not come out of the tap immediately after you turn it on. The time required for hot water to reach the tap depends on several factors:

- The distance between your boiler, furnace or water heater and the bathroom where you turn on the tap.
- The temperature of the mains water supply, which will vary depending on the time of year, exposure to cold weather and the geographical location of your home.
- The time elapsed since the same or another hot-water tap was turned on.

- The type and diameter of hot-water pipe insulation and exposure of plumbing components to the elements.
- The power of your boiler, whether you use water tanks or hot-water cylinders and what heating system you use.

NB! Remember that warm water may not be actually hot enough for a shower or bath. Wait until the water comes out at a much more stable temperature. This will save on wasted water while waiting for adequately hot water to come out and make it unnecessary to adjust the tap.

AquaReturn does not affect the cold water supply, so it does not matter whether this is on or off when you want to use a cold-water tap, whether for the AquaReturn washbasin or anywhere else in the house.

If the water pipe temperatures are higher than 35°C (95°F), due to outside weather conditions or the use of heaters indoors, the water will come out initially at an acceptable temperature for AquaReturn. However, colder water will eventually cool down the sensor and AquaReturn will function as normal.

12 • USEFUL AUTOMATIC MECHANISMS

AGAINST OBLIVION

If the hot-water tap for the washbasin where you have installed AquaReturn is left running for more than five minutes, the appliance will automatically shut off the water and sound an alarm: two beeps a second for 30 seconds. This does not mean that you cannot use the hot water for as long as you want in any other part of the bathroom or home.

To reset AquaReturn, simply turn off the power switch on the plug or unplug the socket

ERROR ALARM

If the boiler has a technical problem, the gas supply is cut or the heater is unplugged so that AquaReturn has received no hot water after ten minutes, it will automatically stop recirculating water (so there will no water wastage as usually happens in such situations). If hot water is reaching the appliance but not at the correct temperature (35°C / 95°F), the appliance will recirculate the water for a further five minutes in case more time is needed to obtain hot water. If hot water still fails to reach the correct temperature, an alarm will sound to indicate the error: one beep a second for 30 seconds.

To reset AquaReturn, simply turn off the power switch on the plug or unplug the socket

AUTOMATIC BYPASS

If power is cut while the appliance is operating, AquaReturn automatically switches the internal water circuit back to the original circuit (that is, the system operates as if the appliance were not installed) so that water can continue to flow to all the taps in the home.

INTERNAL BLOCKAGE ALARM

If the appliance becomes blocked due to grit, you will hear a constant beeping to warn you of the problem. Opening and closing the tap several times may solve the problem.

To reset AquaReturn, simply turn off the power switch on the plug or unplug the socket

If that fails, contact AquaReturn Technical Service or your distributor.

ANTI-BLOCK MECHANISM

If AquaReturn is not going to be used for prolonged periods, do not turn off the main power switch or unplug the appliance from the mains supply. The reason is that AquaReturn has a timed anti-block system which activates 2 seconds every three days to prevent the pump and solenoid valves from blocking due to disuse. So do not be surprised if you hear the appliance start up on its own. This action will not affect you or damage your appliance or installation.

ANTI-FREEZING SYSTEM ❄️ (optional, see rating plate)

The installed and connected AquaReturn appliance will start up automatically when it detects that the internal temperature has fallen below 5°C (41°F) and will continue working for 10 minutes if your water heater or boiler is turned off. With this small-scale movement of water, the installation is not likely to freeze up as the heat from the pump will slightly raise the temperature of the recirculating water. This process is repeated when the temperature drops again.

If the water heater or boiler is on, warm water will be recirculated through the cold- and hot-water pipes until the set temperature of 35°C (95°F) is reached inside AquaReturn. This means that the cold- and hot-water pipes will also be prevented from freezing, provided they have not frozen before AquaReturn is activated.

Your water heater or boiler is also potentially protected from frost damage, since if it is on, AquaReturn will raise the temperature by starting up every time it detects a drop in temperature.

NB! AquaReturn does not guarantee in any way, and cannot be held responsible for, damage to pipes or heaters, which depends on the

temperatures to which these are exposed, whether the water heater or boiler and pipes are exposed to different temperatures and whether they are outside the AquaReturn recirculating circuit. If the pipes and heaters are exposed to below-zero temperatures and AquaReturn is in a protected location, the pipes may already be frozen before AquaReturn is activated.

Important precautions in colder climates or weather.

If AquaReturn is turned off, the appliance and accessory components may be damaged by ice if not completely emptied of water.

To avoid possible damage from freezing, instal AquaReturn in a location where its internal parts will not freeze. If you think freezing is possible, drain the water from the pipes and the AquaReturn appliance and unplug it to prevent internal damage.

If you require any further information on how AquaReturn works, please call the AquaReturn Technical Service if you are in Spain (telephone 265 260 000; office hours: Monday to Friday 9.00 am to 2.00 pm), write to us at serviciotecnico@aquareturn.com or contact the distributor for your country.

13 • CARE AND MAINTENANCE

The AquaReturn appliance requires no maintenance. Before cleaning, unplug the appliance from the mains supply. Do not use abrasive cleaning products or solvents on the casing as these can damage the plastic. We recommend using a damp, soapy cloth.

14 • TROUBLESHOOTING

You may be able to resolve small problems yourself using the following checklist.

If in doubt, contact AquaReturn's Technical Service or your local distributor.

Note that internal, electrical and hydraulic component repairs may only be performed by AquaReturn's Technical Service.

AquaReturn does not work even after turning on the hot tap.

- MAKE SURE THAT THE SHUT-OFF VALVES FOR THE WASHBASIN ARE FULLY OPEN.
- MAKE SURE THAT THE GENERAL BATHROOM STOPCOCKS ARE FULLY OPEN.
- Check that AquaReturn is plugged in and that the power switch is turned on.
- Check for a problem with the water supply or for blocked pipes if flow is less than 2 litres/minute, as the water pressure may be insufficient to activate AquaReturn.
- Clean the tap aerators as limescale or grit may be blocking the water.
- Check that the flexible connectors are not kinked, preventing the flow of water.
- Check that the voltage indicated on the rating plate coincides with the characteristics

of your electricity supply.

- Check that the mains cable is not damaged.

AquaReturn seems to be running but hot water is not arriving to the tap.

- MAKE SURE THAT THE SHUT-OFF VALVES FOR THE WASHBASIN ARE FULLY OPEN.
- MAKE SURE THAT THE GENERAL BATHROOM STOPCOCKS ARE FULLY OPEN.
- Purge air from the appliance by slowly opening both taps.
- Check the water flow from your water heater or boiler (using a timer and a water collector) to ensure that the water heater or boiler starts up with the minimum flow established in the corresponding manual; if necessary, contact the water heater or boiler manufacturer.

AquaReturn seems to be leaking.

- Check the upper and lower appliance fittings, flexible connectors and shut-off valve connections.
- If the leak seems to be internal, contact the AquaReturn Technical Service or your local distributor.

15 • TECHNICAL DATA

Power Supply

Voltage	220-240V or 110 V. See rating plate.
Frequency	50Hz or 60Hz. See rating plate.
Consumption in use	114 W
Consumption at rest	1W/h
Fuse protection (slow)	1A 220-240V or 2A 100-110V
Protection class	Class 1 or Class 2. See rating plate.
Protection rating	IP 44

Water connection

Water connection	3/8 G or 1/2 according to markets
Supply temperature	60°C (140°F)
Supply pressure (max)	0.8 MPa / 8 ATM / 8 Kg/cm ² / 117.6 Lb/in ²
Supply pressure (min)	0.1 MPa / 1 ATM / 1 Kg/cm ² / 14.7 Lb/in ²

Working parameters

Pump pressure	0.05 MPa / 0.5 ATM / 0.5 Kg/cm ² / 7.3 Lb/in ²
Pump maximum pressure	0.07 MPa / 0.7 ATM / 0.7 Kg/cm ² / 10.3 Lb/in ²
Water flow volume	Depends on sections and installation pressure drops

Dimensions

Length	223 mm
Width	128 mm
Height	135 mm usable (146 mm total)
Weight	3.4 Kg (cable included)

of your electricity supply.

- Check that the mains cable is not damaged.

AquaReturn seems to be running but hot water is not arriving to the tap.

- MAKE SURE THAT THE SHUT-OFF VALVES FOR THE WASHBASIN ARE FULLY OPEN.
- MAKE SURE THAT THE GENERAL BATHROOM STOPCOCKS ARE FULLY OPEN.
- Purge air from the appliance by slowly opening both taps.
- Check the water flow from your water heater or boiler (using a timer and a water collector) to ensure that the water heater or boiler starts up with the minimum flow established in the corresponding manual; if necessary, contact the water heater or boiler manufacturer.

AquaReturn seems to be leaking.

- Check the upper and lower appliance fittings, flexible connectors and shut-off valve connections.
- If the leak seems to be internal, contact the AquaReturn Technical Service or your local distributor.

15 • TECHNICAL DATA

Power Supply

Voltage	220-240V or 110 V. See rating plate.
Frequency	50Hz or 60Hz. See rating plate.
Consumption in use	114 W
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Fuse protection (slow)	1A 220-240V or 2A 100-110V
Protection class	Class 1 or Class 2. See rating plate.
Protection rating	IP 44

Water connection

Water connection	3/8 G or 1/2 according to markets
Supply temperature	60°C (140°F)
Supply pressure (max)	0.8 MPa / 8 ATM / 8 Kg/cm ² / 117.6 Lb/in ²
Supply pressure (min)	0.1 MPa / 1 ATM / 1 Kg/cm ² / 14.7 Lb/in ²

Working parameters

Pump pressure	0.05 MPa / 0.5 ATM / 0.5 Kg/cm ² / 7.3 Lb/in ²
Pump maximum pressure	0.07 MPa / 0.7 ATM / 0.7 Kg/cm ² / 10.3 Lb/in ²
Water flow volume	Depends on sections and installation pressure drops

Dimensions

Length	223 mm
Width	128 mm
Height	135 mm usable (146 mm total)
Weight	3.4 Kg (cable included)

We reserve the right to make modifications to the technical specifications of the product.

16 • EU DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

No: AQUAR 120101

Company: AQUARETURN S.L.

Address: C/ Hermanos Álvarez Quintero 8-4 • 03015 Alicante • Spain

CIF (Spanish tax number): B54611157 **Tel:** 965 63 33 53

Represented by: Alfonso Cuervo-Arango y de Cachavera

We hereby declare the conformity of the following appliance:

Product description: Energy-saving hot-water circulation system.

Protection class: Class 1, Class 2. See rating plate.

Protection rating: IP 44

Brand: AquaReturn

Model: Basic

To the standards listed as follows:

Reference: EN 55014-2

Date: 1997

Title: Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard.

Reference: EN 55014-1

Date: 2006

Title: Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission.

Reference: EN 61000-3-2 +A1 +A2

Date: 2006 2009

Title: Electromagnetic compatibility (EMC). Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).

Reference: EN 61000-3-3

Date: 2008

Title: Electromagnetic compatibility (EMC). Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

Reference: EN 60335-15th edition

Date: 2012

Title: Household and similar electrical appliances - Safety. Part 1: General requirements.

Reference: EN 62233

Date: 2008

Title: Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.

Reference: EN 61000-3-11

Date: 2000

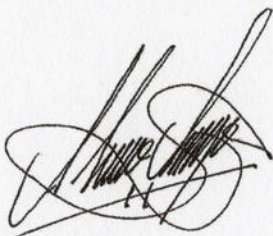
Title: Electromagnetic compatibility (EMC). Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection.

In accordance with the provisions of Directive 2006/95/EC of the European Parliament and of the Council of 12 December 2006 (as transposed to Spanish legislation by means of Royal Decree 154/1995 of 3 February 1995) and in accordance with the provisions of Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004, (transposed to Spanish legislation by means of Royal Decree 1580/2006 of 22 December 2006).

Year CE mark affixed: 2013

Alicante, 30 March 2013

Signed: Alfonso Cuervo-Arango y de Cachavera



WMTS 464:2016

Licence No. WM 74910

ApprovalMark

We hereby declare that the appliance described conforms to the relevant fundamental safety and health requirements of the appropriate EU Directives, both in its basic design and construction as well as in the version marketed by us. Any modification to the product not approved by us will invalidate this declaration