

NOTICE D'INSTALLATION ET D'UTILISATION

Installation and operating manual - Gebruiks en installatiehandleiding

CHAUFFEO-CHAUFFEO+ CHAUFFE-EAU ÉLECTRIQUE

Electric water heater



General Warnings

This appliance is not designed to be used by people (including children) of reduced physical, sensory or mental capacity, or those lacking previous experience or knowledge unless they have received prior instruction or supervision from someone responsible for their safety, about the use of the appliance. Children must be supervised to ensure they do not play with the appliance. This appliance may be used by children of 8 years or over, and by people with of reduced physical, sensory or metal capacity, or those lacking experience or knowledge if they are properly supervised or if they have been given instructions about the safe use of the appliance, and made aware of the associated risks. Children must not clean or maintain the appliance without supervision.

INSTALLATION

WARNING: The product is heavy, handle with care.

- Install the appliance in a frost-free location (minimum 4°C to 5°C).
- The warranty does not cover destruction of the appliance through excess pressure caused by a blockage in the safety valve.
- Ensure the room is well-ventilated. The temperature of this room should not exceed 35°C.
- When installed in a bathroom, do not install the appliance in volumes V0 and V1 (see diagrams on page 36).
 If there is not suffisement place, they can be installed in the volume V2 or the highest possible in the volume V1 for horizontal model.
- This device is intended for use at a maximum altitude of 3000 m.
- In the case of a vertical wall-mounted water heater, ensure that the wall is able to bear the weight of the device filled with water.
- Leave a free space underneath the ends of the tubes of at least 300 mm (100 L) – 480 mm (150 L and 200 L) so that the equipment and accessories can be accessed.

WATER CONNECTION

• A new safety device which conforms to current standards (in Europe EN 1487), pressure 7 bar - 0,7 MPa and size 3/4" in diameter must be fitted. The safety valve must be protected from frost.



This manual should be kept after installing the product.

General Warnings

- A pressure reducer (not supplied) is required when the feed pressure is greater than 5 bar 0.5 MPa. It must be fitted to the cold water inlet, after the meter.
- Connect the safety unit to a drain pipe, kept in the open air, in an environment not subject to frost (4°C to 5°C min.), on a continuous downward gradient in order to drain the expansion water from the heater or if draining the water heater.
- It is compulsory to fit a sump below the water heater if mounted in a suspended ceiling, under the roof or above living area. A drain connected to the sewer is required.

ELECTRICAL CONNECTION

Before the protective cover is removed, make sure that the power supply is switched off in order to prevent any risk of injury or electrocution. The electrical installation must include a single-pole cut-off unit upstream of the water heater (fuse holder, circuit breaker with a contact opening distance of at least 3 mm, and 30 mA differential circuit breaker).

Earthing is mandatory. A special terminal bearing the marking \bigoplus is designed for this purpose.

MAINTENANCE

- The safety unit's draining device must be switched on periodically (at least once a month). This operation enables any limescale deposits to be removed and to check that it is not blocked.
- To drain the appliance, turn it off, shut off the cold water supply, then drain it using the safety unit handle having already turned on a cold water valve.
- If the power cable is damaged, it must be replaced by the manufacturer, the after-sales service or similarly qualified persons in order to avoid any danger.

The instruction book of this product is available by contacting the after-sales service.

Installation and maintenance manual

Water heater

Contents

Installation

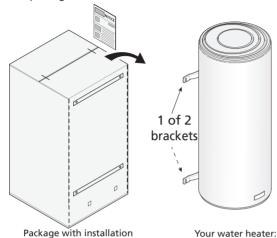
Before beginning	32
Contents of the package	
Accessories required	
Tooling required	33
Labour	33
General installation diagram	34
Where to install my water heater	
Precautions	
How to install my water heater	
Wall-mounted vertical water heater	37
Vertical water heater on base	
Wall-mounted horizontal water heater - Underside connection	38
Wall-mounted horizontal water heater - Side connection	39
Connecting the water heater to the water connections	40
Connecting the water heater to the water connections Conventional connection	
Conventional connection	40 40
Conventional connection	40 40 41
Conventional connection	40 40 41
Conventional connection	40 40 41 41
Conventional connection	40 40 41 41
Conventional connection	40 41 41 42
Conventional connection	40 41 41 42 42
Conventional connection	40 40 41 42 42 43 43
Conventional connection	40 40 41 42 42 43 43
Conventional connection	40 41 41 42 42 43 43 44
Conventional connection Connection with temperature limiter Connection with pressure reducer Filling the water heater Connecting the water heater to the electricity Commissioning the water heater Domestic maintenance advice The safety unit Draining a water heater Maintaining the tank	40 41 41 42 42 43 43 44

Installation Manual: Installation

1. Before starting

1.1. Contents of the package

Your package consists of:



easyFIX for Steatite vertical wall-mounted models

 50 liters
 unavailable

 75 to100 liters
 1

 150 to 200 liters
 2





Your water heater: (for example: vertical wall-mounted)

Dielectric union
Steatite models sheathed models

1.2. Accessories required

template

1.2.1. Mandatory and recommended accessories

To install your water heater, you need the following components:

A NEW safety unit

Mandatory



Wall outlet cable



Siphon

Mandatory



Sealing tape or other



Temperature limiter

Mandatory new and heavy repairs



Pressure reducer

Mandatory if the water pressure in your house is greater than 5 bar (0.5 MPa). It must be installed at the meter outlet (see page 41)



Water retention tank

Essential in the case of an installation on the floor and above a living space.



ΕN

Installation Manual: Installation

Tripod

For vertical wall-mounted models. Mandatory for walls not able to hold the weight for water heaters greater than 100 L.



Mounting system (Ø 10 mm min.) (Depending on support)



Surround kit for horizontal wall-mounted versions - Underside connection

Mandatory for mounting on the ceiling. Can be used to replace the mountings of an older appliance. Enables the appliance to be slid a few centimetres during installation



1.2.2. Optional accessories

Ceiling attachment console

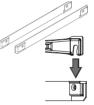
Ideal for mounting vertical wall-mounted water heaters to the ceiling, when the wall is not load bearing.

Frees up space under the water heater.



Quick mounting plates

Ideal for cramped places like a cupboard, where there is no access for tightening to the wall.



Reduced fitting time.

Capacity	Number of plates
50 to 100 litres	1
150 to 200 litres	2

Universal mounting brackets

Ideal for re-using your old water heater's mountings with no additional holes

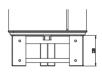
Reduced fitting time



Riser

Ideal for avoiding draining

modifications on vertical water heaters on a base



1.3. Tooling required



1.4. Labour



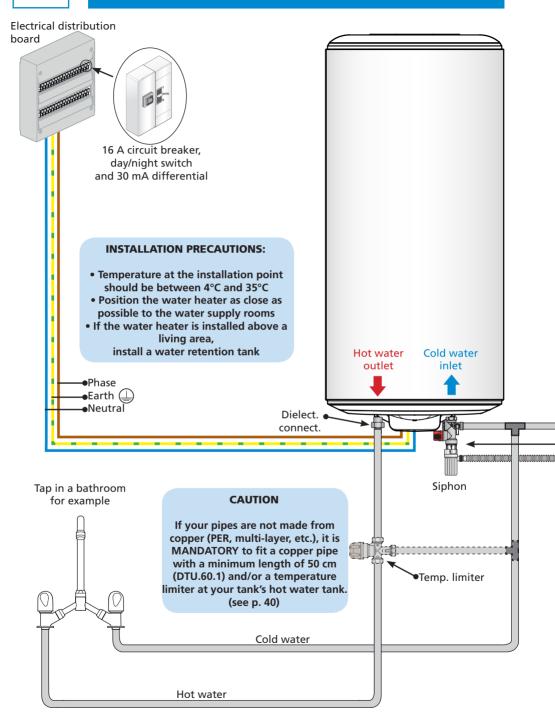
2 people required for assembly



2 hours

ΕN

Installation Manual: Overall assembly diagram



General installation diagram

Example with a vertical wall-mounted water heater

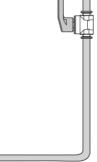


The pressure reducer is an additional accessory which should be installed at your water meter's outlet if the water pressure in your house is greater than 5 bar (0.5 MPa).

It prevents the safety unit's valve from opening erratically when the water heater is not operational. To determine the water pressure in your house. You can find out more from your water supplier



Warning: the pressure limiter must never be positioned between the safety unit and the cold water inlet



Mains water inlet

0000000

Water meter

General valve

Waste water drainage (drains)



Pressure reducer

Safety unit

Safety unit

The safety unit is a mandatory accessory. Its role is to maintain an interior water pressure of 7 bar (0.7 MPa) to prevent explosion (it fulfils the same role as a valve on a pressure cooker).

The safety unit therefore lets water escape when the water heater is operational. This flow may represent up to 3% of the volume of the water heater cycle.

Caution: the safety unit must always be directly connected to the tank's cold water tank. Nothing should be fitted between the safety unit and the water heater. (no valve, no pressure limiter, etc.).



2. Where to install my water heater?

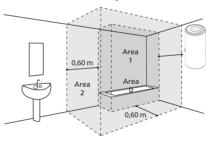
2.1 Precautions

- Choose a place of installation whose temperature is always between 4°C and 35°C.
- The water heater must be positioned as close as possible to the major draw-off points (bathroom, kitchen, etc.)
- If it is positioned outside the living area (cellar, garage), the pipes and the safety units (safety unit, pressure limiter) must be insulated.
- Make provision in the room for ventilation to prevent condensation and corrosion of the water heater paint.
- Ensure that the supporting element (wall or ceiling) is sufficiently resistant to accommodate the weight of the water heater full of water (see table p. 37).
- Make provision for a space of 40 cm for the periodic maintenance of the heater element.
- In the case of installation above living rooms (suspended ceilings, attics, etc.), it is ESSENTIAL to make provision for a water collection tank connected to the drain under the water heater (shower type tank for example).

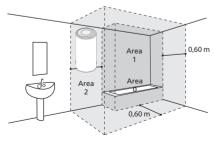


2.2 Specific installation in the bathroom

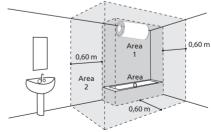
• Installation outside these areas (NF C 15-100 or standards in force in the country).



If bathroom dimensions do not allow the water heater to be positioned outside these areas:



Possible in Area 2



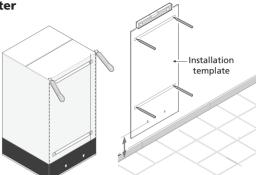
Possible in Area 1 if:

- the water heater is horizontal and positioned as high as possible
- the pipes are made from conductive material
 - the water heater is protected by a circuit breaker residual differential current (30m A) connected

3. How to install my water heater?

3.1 Vertical wall-mounted water heater

• Cut the template printed on the cardboard and use it to make the markings



② Drill then plug using (Ø) 10 mm mini mum diameter mountings suitable for your wall (plasterboard, concrete, brick).

Warning: your wall must be able to bear the weight of the full water heater.

If it cannot, use a tripod (see section dedicated to fitting on a tripod).



Approximate weight of full water heater

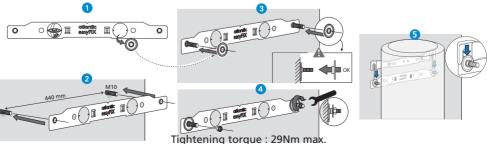
Capacity	Weight
50 L	75 kg
75 L	100 kg
100 L	150 kg
150 L	200 kg
200 L	250 kg

3 Once your water heater or easyFIX is in place, fix it on firmly

Without easyFIX



With easyFIX for Steatite vertical wall-mounted models 75 L to 200 L.





Installation Manual: Fitting the water heater

Specific case:

Fitting a vertical wall-mounted water heater on a tripod

The use of a tripod is mandatory when fitting a water tank with a capacity greater than 100 L on a non load-bearing wall (cannot support the weight of the full tank).

First fit the water heater on its tripod in order to mark the mounting points.

Carry out the drilling.

Put the water heater back in place.





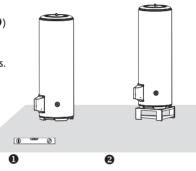
Mount the upper bracket.

3.2 Vertical water heater on base

Fitting a vertical water heater on a base (fig. **1**) does not require mounting.

Make sure you fit it on a flat surface.

You can use a riser (fig. 2) to facilitate routing of the pipes.

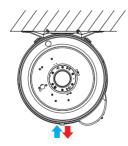


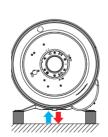
3.3 Horizontal wall-mounted water heater - Underside connection

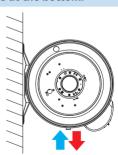
A horizontal water heater can be fitted to the wall, ceiling or floor.



The cold water inlet and the hot water outlet must always be at the bottom.







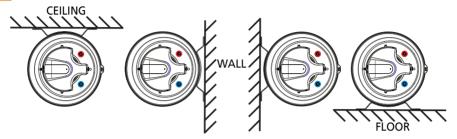
Leave a free space of 400 mm underneath the cover in case the heater element in case the heater element needs to be replaced.

3.4 Horizontal wall-mounted water heater- Side connection



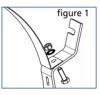
Essential:

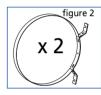
Align the pick-ups vertically with the hot water outlet (red) above the cold water (blue).



Mounting procedure:

- Assemble the belts and brackets using the nuts and bolts in the package without tightening them (figs. 1 and 2)
- Fit the brackets with their belt on the support (wall, ceiling, floor), then tighten
- Position the water heater using one of the 4 mounting options.
- Complete the mounting procedure by tightening the belt nuts on the bracket





Installation Manual: Water heater water connections

4. Water heater water connections

The water heater must be connected in accordance with the standards and regulations in the country in which it is installed (for France: DTU Plumbing 60-1).

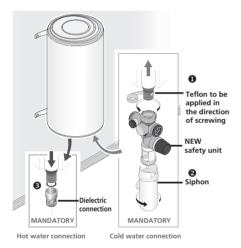
4.1 Conventional connection

- Onnect the NEW safety unit to the cold water inlet (blue) on your water heater.
- 2 Place the siphon under the safety unit and connect its drain pipe to the drain.
- 3 Tighten the dielectric connection onto the hot water outlet (red) on your water heater.
- 4 Tighten your pipes on your water heater.



WARNING

Your pipes must be rigid (copper) or flexible (standardised braided stainless steel hoses) and able to withstand 100°C and 10 bar (1 MPa). Otherwise, use a temperature limiter.



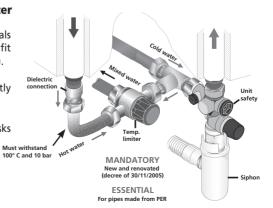


4.2 Connection with a temperature limiter

If your pipes are made from synthetic materials (plastic or PER for example), it is essential to fit a temperature limiter (or thermostatic regulator).

The limiter must never be connected directly to the water heater.

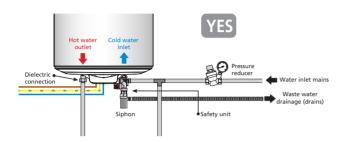
The temperature limiter enables the risks of burning to be limited. $$_{\mbox{\tiny Mu}}$$

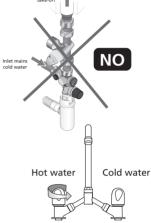


4.3 Connecting to a pressure reducer

The pressure reducer is mandatory if the water pressure in your home is greater than 5 bar (0.5 MPa).

Place it on the cold water inlet, to your water meter outlet, never directly to the water heater.

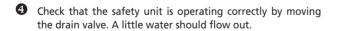




4.4 Filling the water heater

- Turn on the house's HOT water taps.
- 2 Turn on the cold water valve located on the safety unit.
- The water heater is filled as soon as you notice a flow of cold water at the hot water valve outlet. Close these.











If you notice a leak, try to retighten the connections.

If the leak persists, drain the water heater (see page 43) and retighten the connections.

It the leak persists, drain the water heater (see page 43) and retighten the connections. Start the operation again until full sealing is achieved.

Installation Manual: Connecting the water heater to the electricity

5. Connecting the water heater to the electricity



- Check the compatibility of the water heater with the electrical installation.
- 2 If the water heater is pre-wired, connect the water heater's power supply cable to a cable outlet (the water heater should not be connected to a socket).

If the water heater is not pre-wired, the use of a rigid cable connection with a minimum cross-section of 3 x 2.5 mm^2 in single-phase (phase, neutral, earth) or $4 \times 2.5 \text{ mm}^2$ in three-phase (3 phases + earth) is essential (refer to the «wiring diagram» section).

- Check that the water heater is full by turning on a HOT water tap. COLD water should flow out.

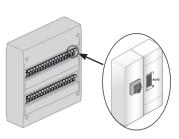
 If the water heater is switched on when it is empty, there is a risk of damage (not covered by the warranty).
- 4 Switch the electricity back on.
- **6** A direct connection to the resistors (without passing through the thermostat) is strictly forbidden as it is extremely dangerous, the water temperature would not be limited.

6. Commissioning the water heater

- If your electrical distribution board is equipped with a day/ night switch (reduced night tariff), move it to 1 (forced operation).
- There may be some light smoke when heating starts (NORMAL operation).

After a while, water should flow drop by drop through the safety unit (connected to a waste water drain pipe). During heating, and depending on the water quality, the water heater can emit a sound similar to that made by a kettle. This sound is normal and does not mean there is a fault.

Wait for heating to finish before using your water heater fully (see specifications table to determine the estimated time depending on your model).



















time
MAX = 8 hours

7. Domestic maintenance advice

Your appliance should be checked by a professional every 2 years, in order to guarantee its long-term performance.

7.1 The safety unit

Move the safety unit valve regularly (at least once a month).

This allows deposits which could block the safety unit to be drained away.

Failure to perform maintenance on the safety unit may result in deterioration of the water heater (not covered by the warranty).



7.2 Draining a water heater

If the water heater needs to remain switched off for more than a week (in a second residence for example), and it is located in a place exposed to frost, it is essential to drain the water tank in order to protect against corrosion.

Once the water heater is drained, bleed all the pipes in your house (turn on all your house's cold and hot water taps so that the pipes are empty).

Switch off the power

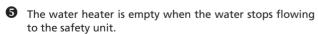






- 2 Turn off your general cold water inlet valve.
- 3 Turn the safety valve wheel (1/4 of a turn).

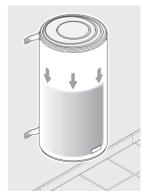




Draining can take up to one and a half hours or more.

6 Once completed, follow the steps in paragraph 6 "commissioning" (page 42) to return your water heater to working order.





Installation Manual: Scope of the warranty

7.3 Maintaining the tank

Check the condition of the magnesium anode every two years and replace it if its diameter is less than 10 mm (in the case of ACI versions, the anode does not require any maintenance). It is strongly recommended to have maintenance performed on the tank by a professional every 2 - 3 years depending on the quality of the water: draining and limescale removal. In areas where the water is hard, it is possible to treat the water with a softener. This should be regulated and the water hardness should remain greater than 15°f.

Using a softener does not invalidate our warranty as long as it is used in accordance with professional standards, and is checked and maintained regularly.



Do not throw your appliance away in the domestic waste, but take it to a specially designated place (collection point) where it can be recycled.

8. Scope of the warranty

Failures caused by the following are not covered under this warranty:

8.1 Abnormal environmental conditions

- Damage caused by impacts or falls during handling after leaving the factory.
- · Placing the appliance in a place exposed to frost or adverse weather conditions (damp, aggressive or poorly ventilated environments).
- Using a water with aggressivity criteria such as defined by the Plumbing DTU 60-1 addendum 4, hot water (chlorine content, sulphates, calcium, resistivity and TAC).
- Water hardness < 15°f.
- Non-compliance with electrical mains standards (NF EN 50160) (power supply does not demonstrate min. or max. voltage, non-compliant frequencies, for example).
- Damage resulting from problems which cannot be detected due to the choice of position (difficult to access places) and which could have been avoided by immediate repair of the appliance.

8.2 An installation not compliant with the regulations, standards and good practice

- Missing or incorrect assembly of a safety unit compliant with standard EN 1487, or a change to its settings, etc.
- Fitting a hydraulic system directly onto the water system preventing operation of the safety unit (reduction in pressure, stop cock, etc.) (see page 41).
- Abnormal corrosion of pick-ups (hot or cold water) due to an incorrect water correction (incorrect sealing) or lack of dielectric sleeves (direct iron-copper contact).
- Faulty electrical connection: not compliant with standard NF C 15-100 or standards in force in the country, incorrect earthing, insufficient cable thickness, flexible cables connected, non-compliance with the connection diagrams provided by the manufacturer.
- Position of the appliance not compliant with the information in the instructions.
- External corrosion due to poor pipe sealing.
- Protective cover is missing or not correctly fitted.
- Cable sleeve is missing or incorrectly fitted.
- Appliance falls due to the use of mountings not suitable for supporting the installation.

8.3 Faulty maintenance

- Abnormal scaling of heater elements or safety units.
- Non-maintenance of the safety unit resulting in pressure surges.
- Modification of the original product without the manufacturer's advice or using spare parts not recommended by the manufacturer.
- Non-compliance with the magnesium anode maintenance conditions (see «tank maintenance» paragraph).

These devices comply with the directive 2014/30/UE according to electromagnetic compatibility, 2014/35/UE according to low voltage, 2011/65/UE according to ROHS directive and Commission Delegated Regulation 2013/814/UE supplementing 2009/125/EC regulation for ecodesign.



Installation Manual: Warranty conditions

9. Warranty conditions

The water heater should be installed by a qualified professional in accordance with professional practice, the standards in force and our technical instructions.

It will be used normally and regularly maintained by a specialist.

In these conditions, our warranty covers the exchange or free supply to our Distributor or Installer of replacements to parts agreed to be defective by our staff, or if necessary of the appliance. It does not cover labour costs, transport costs, or any compensation or extension of the warranty.

The warranty takes effect on the date it is installed, the invoice for installation acting as proof. In the absence of documentary evidence, the date the warranty takes effect will be six months after the date of manufacture shown on the identification plate of the water heater.

The warranty on a part or a water heater replaced under warranty ceases at the same time as that of the part or water heater it replaced. (first part invoiced).

The provisions of these conditions of warranty do not exclude the benefits to the purchaser, or the legal warranty against faults and hidden defects which apply in all cases under the conditions of articles 1641 et seq. of the civil code.

In no case does the failure of a part justify the replacement of the water heater. Atlantic holds all the spare parts at your disposal for a period of 7 years.



An appliance which is presumed to have caused a fire must be left in place for examination by experts. The person affected should inform his insurance company.

Installation and Maintenance manual

Water heater

Contents

Technical Specifications

Technical specifications	47
Vertical wall-mounted water heater (VW)	47 49 50
• •	
Presentation of components Shielded wall-mounted vertical versions Steatite vertical wall-mounted models Vertical models on shielded base Steatite stable models Shielded horizontal models	52 52 52 53
Specific installation procedures Setting the temperature	
Specific maintenance conditions	53
Parts which can be replaced	
Troubleshooting guide	54
No hot water	. 54 . 55 . 55 . 56
Boiling noise	

I. Technical specifications

I.1 Vertical wall-mounted water heater (VW)

		50 litres		75 litres		100 litres	
Voltage (V)				230 V sing	gle-phase		
Resistance		Shielded	Steatite	Shielded	Steatite	Shielded	Steatite
Power (W)		1,200	1,200	1,200	1,200	1,200	1,200
	Ø	505	505	510	510	505	510
	Н	575	575	700	700	910	865
Dimensions (mm)	А	370	370	575	575	750	750
()	В	/	/	/	/	/	-
	С	530	530	530	530	530	530
Real heating time**		2 h 26 min	2 h 46 min	4 h 10 min	4h 10 min	5 h 29 min	5 h 46 min
Qpr (Maintenance consumption)***		0.71	0.79	1.00	1.00	1.24	1.33
V40 (Amount of hot water at 40°C)		-	-	141	141	179	192
Weight when empty (kg)		23	23	26	26	32	30
Weight when	full (kg)	73	73	101	101	130	130

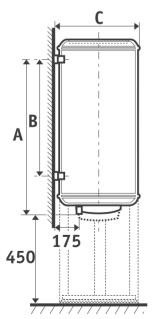
		150 litres		200 litres		200 litres
Voltage (V)			230 V sin	gle-phase		All currents*
Resistance		Shielded	Steatite	Shielded	Steatite	Shielded
Power (W)		1,650	1,800	2,200	2,200	2,200
	Ø	530	530	530	530	530
	Н	1,165	1,165	1,480	1,480	1,480
Dimensions (mm)	Α	1,050	1,050	1,050	1,050	1,050
()	В	800	800	800	800	800
	С	550	550	550	550	550
Real heating time**		5 h 33 min	5 h 33 min	5 h 17 min	5 h 17 min	5 h 17 min
Qpr (Maintenance consumption)***		1.48	1.48	1.73	1,73	1.73
V40 (Amount of hot water at 40°C)		279	279	382	382	382
Weight when empty (kg)		38	38	46	46	46
Weight when	full (kg)	188	188	246	246	246

^{*}Appliances supplied with three-phase wiring 230/400V3~ can be switched to 230 V single-phase~ **Real heating time for heating from 15° to 65°C

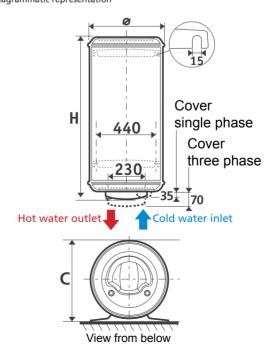
^{***}Maintenance consumption in kWh for 24 hours for water at 65°C (ambiance 20°C)

		100 litres compact	150 litres compact	200 litres compact
Voltage (V)			230 V single-phase	
Resistance			Shielded	
Power (W)		1,200	1,650	2,200
	Ø	570	570	570
	Н	735	1,000	1,250
Dimensions (mm)	Α	600	760	1,050
(11111)	В	1	500	800
	С	590	590	590
Real heating time**		5 h 32 min	5 h 38 min	5 h 33 min
Qpr (Maintenance consumption)***		1.024	1.37	1.67
V40 (Amount of hot water at 40°C)		175	266	359
Weight when empty (kg)		31	41	50
Weight when	full (kg)	131	191	250

^{*}Real heating time for heating from 15° to 65°C **Maintenance consumption in kWh for 24 hours for water at 65°C (ambiance 20°C)



Diagrammatic representation



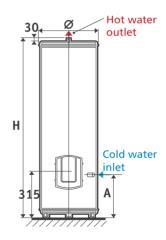
I.2 Vertical water heater on base (VB)

		150 l	200 litres		250 litres		300 litres		
Voltage (V)			230 V single-phase						
Resistance		Shielded	Shielded	Steatite	Shielded	Steatite	Shielded	Steatite	
Power (W)		1,650	2,200	2,200	3,000	3,000	3,000	3,000	
	Ø	530	530	530	530	530	570	570	
Dimensions	Н	1,170	1,485	1,485	1,805	1,805	1,765	1,765	
(mm)	Α	300	300	300	300	300	300	300	
	В	600	600	600	600	600	640	640	
Real heating	time**	4 h 46 min	4 h 41 min	4h 57 min	4 h 40 min	4 h 55 min	5 h 53 min	5 h 37 min	
Qpr (Maintenance consumption)***		1.53	1.45	1.88	2.15	2.22	2.58	2.49	
V40 (Amount of water at 40°C)		259	358	354	477	465	569	531	
Weight when empty (kg)		37	43	43	57	58	65	68	
Weight when	full (kg)	187	243	243	307	308	365	368	

		200 l	250 l	300 l		
Voltage (V)			All currents*			
Resistance		Shielded	Shielded	Shielded		
Power (W)		2,200	3,000	3,000		
	Ø	530	530	570		
Dimensions	Н	1,485	1,805	1,765		
(mm)	Α	300	300	300		
	В	600	600	640		
Real heating	time**	4 h 41 min	4 h 40 min	5 h 53 min		
Qpr (Maintenance consumption)***		1.45	2.15	2.58		
V40 (Amount of hot water at 40°C)		358	477	569		
Weight when empty (kg)		44	57	68		
Weight when	full (kg)	244	307	368		

^{*}Appliances supplied with three-phase wiring 230/400V3~ can be switched to 230 V single-phase~

Diagrammatic representation





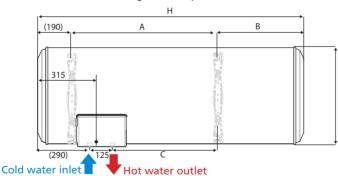
^{**}Real heating time for heating from 15° to 65°C
***Maintenance consumption in kWh for 24 hours for water at 65°C (ambiance 20°C)

I.3 Horizontal water heater (HW) with underside connection

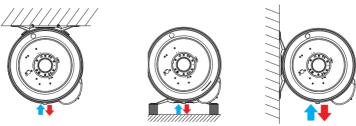
		75 litres	100 litres	150 litres	200 litres	
Voltage (V)	Voltage (V) 230 V single-phase					
Resistance			Shie	lded		
Power (W)		1,200 1,200 1,650 2,200				
	Ø	530	530	530	530	
	Н	680	840	1,140	1,460	
Dimensions (mm)	А	370	500	800	800	
(11111)	В	120	150	150	470	
	С	145	275	575	575	
Real heating time**		4 h 07 min	4 h 57 min	4 h 53 min	5 h 24 min	
Qpr (Maintenance consumption)***		1.29	1.34	1.75	1.98	
V40 (Amount of hot water at 40°C)		144	183	253	341	
Weight when empty (kg)		28	32	39	48	
Weight when	full (kg)	103	132	189	248	

^{*}Real heating time for heating from 15° to 65°C

Diagrammatic representation



Various mounting options:



If mounting to the ceiling, it is essential to use the specifically designed surround kit 50(optional accessory, refer to its specific instructions).

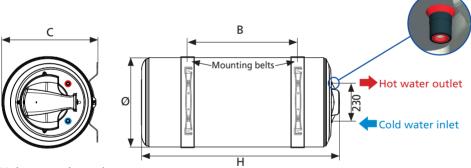
^{**}Maintenance consumption in kWh for 24 hours for water at 65°C (ambiance 20°C)

I.4 Horizontal water heater (HW) side connection

		75 litres	100 litres	150 litres	200 litres	
Voltage (V)		230 V single-phase				
Resistance			Shie	lded		
Power (W)		2,000 2,000 2,000 2,000				
	Ø	505	570	570	570	
Dimensions	Н	740	745	1,000	1,255	
(mm) B		Variable				
	С	530	590	590	590	
Real heating time**		2 h 36 min	3 h 27 min	4 h 41 min	6 h 28 min	
Qpr (Maintenance consumption)***		1.34	1.54	1.89	2.15	
V40 (Amount of hot water at 40°C)		150	190	279	367	
Weight when empty (kg)		27	32	41	51	
Weight when	full (kg)	102	132	191	251	

^{*}Real heating time for heating from 15° to 65°C

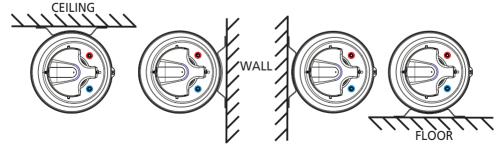
^{**}Maintenance consumption in kWh for 24 hours for water at 65°C (ambiance 20°C)



Various mounting options:



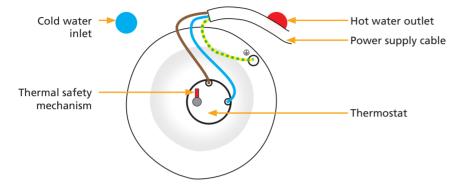
Align the take-offs vertically with the hot water outlet (red) above the cold water (blue).



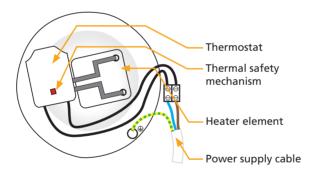


II. Presentation of the components

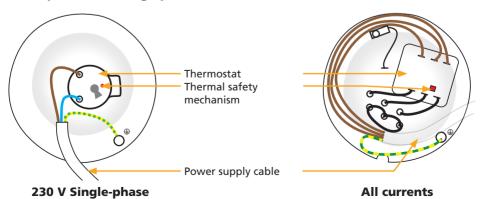
II.1 Components making up the shielded vertical wall-mounted models



II.2 Components making up Steatite vertical wall-mounted models



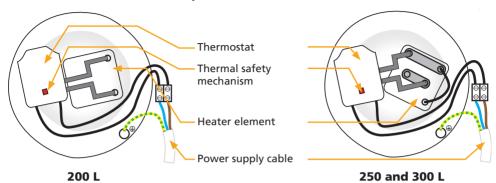
II.3 Components making up vertical versions on shielded base



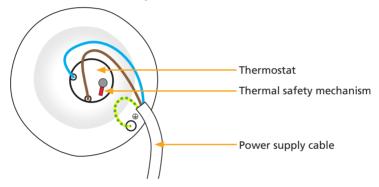
ΕN

Your water heater: Wiring diagrams

II.4 Steatite stable model components



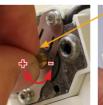
II.5 Shielded horizontal model components

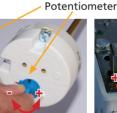


III. Specific installation procedures

Adjusting the temperature

The factory temperature setting is 65° The temperature may be lowered by turning the wheel.







IV. Specific maintenance conditions

Parts that can be replaced

• Thermostat

• Heater element

• Cover

- Seal
- Heater body (only for Steatite water heaters)



The seal must be replaced if the heater body is replaced or opened. Any replacement operation must be performed by a qualified person using the manufacturer's original parts.

Your water heater: Troubleshooting guide

V. Troubleshooting guide

V.1 No hot water

Action to take	Solution	Cause
Have the electrical power supply checked by a professional (using a multimeter). When the electrical power supply checked by a professional (using a multimeter). When the electrical power supply checked by a professional (using a multimeter).	If there is no current at the water heater's terminals: have an electrician look at it.	Electrical power supply fault.
pricing, 2.1. Switch to forced operation from your electric distribution board. 2.2. Check the position of the circuit breaker (should be in the ON position)		
	If there is current at the water heater's terminals, go to the next step.	
Cut-off the water heater current (the circuit breaker should be in the OFF position).		Thermostat going into safe mode.
		NOTE: it is preferable to replace the thermostat . if it goes into safe mode numerous times. (more than 10 times)
2. Trigger the thermostat safety device again by pressing the red button (see section III).	If the thermostat regularly goes into safety mode, descale the water heater (see the chapter on maintenance) and retighten all the electrical connections (after having switched off the power).	
3. Switch to forced operation from your electrical distribution board.	If the safety device is not triggered, move onto the next step.	



Your water heater: Troubleshooting guide

Action to take	Solution	Cause
1. Cut-off the water heater power (the circuit breaker should be in the OFF position).	Null or infinite value.	Replace the faulty resistor.
	Value in ohms > 0.	Replace the thermostat.
2. Take a resistance measurement at the heater element terminals using a		
multimeter (in ohm position).		
0.02.		

V.2 Electric meter which breaks the circuit

Action to take	Solution	Cause
1. Check that the meter only cuts- out when the water heater starts heating.	The meter trips as soon as the water element circuit breaker is set to ON.	
2. If you have Peak/Off-peak hours pricing,	On a shielded product: Replace the heater element.	Faulty resistor.
2.1 Switch to forced operation from your electrical distribution board.	On a steatite product: Clean the area where the heater element is located (hollow interior) with a cloth or a bottle brush.	Residue in the resistor sleeve.
2.2 Check the position of the circuit breaker (should be in the ON position).	If the problem persists: Replace the heater element.	Faulty resistor.

V.3 Lukewarm water

Action to take	Solution	Cause
1.1. Switch off the electrical power supply to the water heater.1.2. Open the plastic cover.1.3. Switch the thermostat to maximum. See Section III Setting the temperature.	Leave the thermostat setting at maximum in order to enjoy very warm water in sufficient quantity.	Incorrect thermostat setting.
2.1. Shut off cold water inlet on the safety unit. 2.2. Turn on a hot water tap in the house.	If water flows from the hot water tap, then one of the house's taps is faulty. Replace the faulty tap or consult a plumber to find the cause of the problem.	A tap (mixer) allows cold water into the hot water circuit.



Your water heater: Troubleshooting guide

V.4 Leak problem

Action to take	Solution	Cause	
Leak located on the hot and cold water take-offs			
1. Switch off the electrical power supply 2. Drain the water heater (see p. 43).	Reconnect all the connections (see p. 40, the section on installation).	Poor connector sealing	
Leak coming from the nuts located under the plastic cover			
1. Switch off the electrical power supply 2. Drain the water heater (see p. 43).	Replace the closing flange seal	Damaged seal or leaking heater body.	
Lek gevonden bij de bak			
1. Switch off the electrical power supply 2. Drain the water heater (see p. 43).	Replace the water heater.	Tank corrosion.	

V.5 Boiling noise

Action to take	Solution	Cause
Check that the noise occurs when the water heater is in the process of heating.	If the noise occurs during heating, descale the water heater (see Chapter 7.3 maintenance p.44).	Water heater is scaled up.
	If the noise does not occur during heating or it consists of clicking noises, or it occurs when the valve is turned on, consult a plumber so that they can find the cause of the problem.	The water heater is not the cause.



On a shielded product, this is a normal occurrence as the resistor is directly submerged in the water.

V.6 Water is too hot

Solution	Cause
Reconnect the water heater's electrical wiring in accordance with the diagram on pages 52 and 53.	Connect directly to the resistor ithout passing through the thermostat.
Adjust the thermostat to the desired temperature.	Thermostat set at the maximum.
	Reconnect the water heater's electrical wiring in accordance with the diagram on pages 52 and 53. Adjust the thermostat to the