en

Installation, User and Service Manual

Independent domestic hot water tanks

BPB 150...501

Contents

1 Safety

1.1 General safety instructions

Danger
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 should not be carried out by children without adult supervision.

Warning
- In order to limit the risk of being scalded, a thermostatic mixing valve must be installed on the domestic hot water flow pipes.
- The thermostatic mixing valve must be set to maximum at 60 °C.

1.2 Recommendations

Warning
Do not neglect to service the appliance.
Service the appliance regularly to ensure that it operates correctly.

Warning
Only qualified persons are authorised to assemble, install and maintain the installation.

Caution
Heating water and domestic water must not come into contact with each other. Domestic water must not circulate through the exchanger.

- To benefit from extended warranty cover, no modifications should be made to the appliance.
- Insulate the pipes to keep heat losses to a minimum.

Only remove the covers for maintenance and breakdown repair operations and put the covers back in place once these operations are complete.

Warning stickers

The instructions and warnings affixed to the appliance must never be removed or covered and must remain legible during the entire lifespan of the appliance. Immediately replace damaged or illegible instructions and warning stickers.

1.3 Liabilities

1.3.1 Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various Directives applicable. They are therefore delivered with the CE marking and any documents necessary. In the interests of the quality of our products, we strive constantly to improve them. We therefore reserve the right to modify the specifications given in this document.

Our liability as manufacturer may not be invoked in the following cases:

- Failure to abide by the instructions on installing and maintaining the appliance.
- Failure to abide by the instructions on using the appliance.
- Faulty or insufficient maintenance of the appliance.

1.3.2 Installer's liability

The installer is responsible for the installation and initial commissioning of the appliance. The installer must observe the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Install the appliance in compliance with prevailing legislation and standards.
- Carry out initial commissioning and any checks necessary.
- Explain the installation to the user.
- If maintenance is necessary, warn the user of the obligation to check the appliance and keep it in good working order.
- Give all the instruction manuals to the user.

1.3.3 User's liability

To guarantee optimum operation of the system, you must abide by the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.

- Call on a qualified professional to carry out installation and initial commissioning.
- Get your installer to explain your installation to you.
- Have the required inspections and maintenance carried out by a qualified installer.
- Keep the instruction manuals in good condition close to the appliance.

2 Symbols used

2.1 Symbols used in the manual

This manual uses various danger levels to draw attention to special instructions. We do this to improve user safety, to prevent problems and to guarantee correct operation of the appliance.

Danger
Risk of dangerous situations that may result in serious personal injury.

Danger of electric shock
Risk of electric shock.

Warning
Risk of dangerous situations that may result in minor personal injury.

Caution
Risk of material damage.

Important
Please note: important information.

See
Reference to other manuals or pages in this manual.

2.2 Symbols used on the equipment

Fig.1

MW-6000691-1

1 Before installing and commissioning the appliance, carefully read the instruction manuals provided
2 Dispose of used products in an appropriate recovery and recycling structure

3 Technical specifications

3.1 Homologations

3.1.1 Certifications

This product complies with the requirements of the following European Directives and Standards:

- Low Voltage Directive 2014/35/EU
  Generic standard: EN 60335-1
  Relevant standards: EN 60335-2-40, EN 60335-2-21
- Electromagnetic Compatibility Directive 2014/30/EU
  Generic standards: EN 61000-6-3, EN 61000-6-1
  Relevant Standard: EN 55014

3.1.2 2014/68/UE Directive

This product conforms to the requirements of European Directive 2014/68/UE, article 4, paragraph 3, on pressure equipment.

3.1.3 Ecodesign Directive

This product conforms to the requirements of European Directive 2009/125/EC on the ecodesign of energy-related products.

3.2 Technical data

3.2.1 Specifications of the domestic hot water tank

Tab.1

	Unit	BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
Primary circuit: (Exchanger)						
Maximum operating temperature	°C	110	110	110	110	110
Maximum operating pressure	MPa (bar)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Exchanger capacity	litres	5.6	8.1	11.4	14.8	20.8
Exchange surface	m^2	0.84	1.20	1.70	2.20	3.10
Water resistance at 3 m^3/h	kPa	12	14	17	20	26
Secondary circuit (domestic water)						
Maximum operating temperature	°C	95	95	95	95	95
Maximum operating pressure	MPa (bar)	1 (10)	1 (10)	1 (10)	1 (10)	1 (10)
Water capacity	litres	145	195	290	385	485
Weight						
Shipping weight (gross)	kg	68	90	119	149,5	184,5
Weight of the domestic hot water tank (net)	kg	51,5	78	106,5	137	172
Performances related to the boiler type						
Output exchange (1)	kW	29	39	54	68	86

	Unit	BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
Hourly flow rate (Domestic hot water, ΔT = 35 °C)(1)	litres/h	710	960	1330	1670	2110
Draw-off capacity (ΔT = 30°C) (10 minutes) (2)	Litres/10 min	250	340	520	670	800
Standby heat loss (ΔT=45K)	kWh/24 h	1,10	1.30	1,60	1,68	1,97
Performance N_L		2.5	4.7	11	16	20

(1) Primary temperature: 80 °C - Domestic cold water inlet: 10 °C - Domestic hot water outlet: 45 °C - Primary flow rate: 3 m^3/h
(2) Primary temperature: 80 °C - Domestic cold water inlet: 10 °C - Domestic hot water outlet: 40 °C - Domestic hot water tank: 60 °C

■ Technical data - Hot water storage tank

Tab.2 Technical parameters for hot water storage tank

Product name			BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
Storage volume	V	l	145	195	290	385	485
Standing loss	S	W	46	54	67	70	82

4 Description of the product

4.1 General description

BPB 150...501 are high performance independent domestic hot water tanks.

BPB 150...501 domestic hot water tanks can be connected to central heating boilers used for heating domestic hot water.

Main components:

- The tanks are made of high-quality steel lined with food-quality standard enamel vitrified at 850 °C, which protects the tank from corrosion.
- The heat exchanger welded into the tank is made of smooth tubing; its external surface, which is in contact with domestic water, is enamelled.
- The appliance is insulated with polyurethane foam, which helps to reduce heat losses.
- To facilitate material recycling, the insulation can be easily removed from the vessel.
- The external casing is made of ABS.
- The tanks are protected against corrosion by one or more magnesium anodes.

4.2 Standard delivery

The delivery includes:

- One domestic hot water tank.
- One installation, user and service manual.

5 Before installation

5.1 Installation regulations

Important
Only qualified professionals are permitted to install the domestic hot water tank, in accordance with prevailing local and national regulations.

Danger
Limit temperature at draw-off points: the maximum domestic hot water temperature at the draw-off points is the subject of special regulations that vary from country to country in order to protect consumers. These special regulations must be observed when installing the appliance.

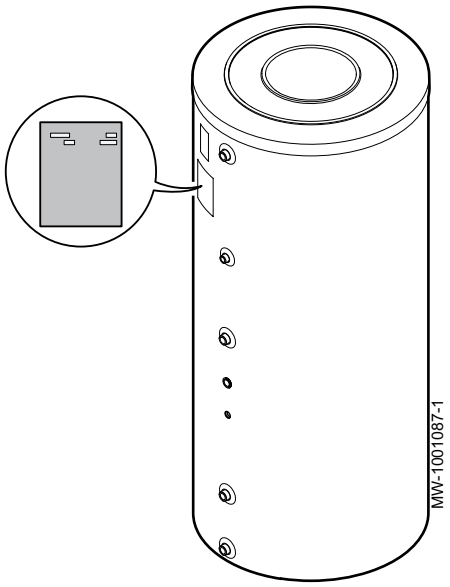
France:

Caution
The system must satisfy each point in the rules that govern works and interventions in individual homes, blocks of flats or other buildings.

5.2 Choice of the location

5.2.1 Data plate

Fig.2



The data plate affixed to the tank provides important information regarding the appliance: serial number, model, etc. It must be accessible at all times.

5.2.2 Position of the appliance

Caution
Install the appliance in a frost-free location.

1. Position the appliance as close as possible to the draw-off points in order to minimise energy losses through the pipes.
2. Place the appliance on a base frame to facilitate cleaning of the area.
3. Install the appliance on a solid, stable structure able to bear its weight.

5.2.3 Main dimensions

■ **Key to the diagrams**

Tab.3

1	Domestic hot water outlet G1"
2	Circulation G¾"
3	Exchanger inlet G1"
4	Exchanger outlet G1"
5	Domestic cold water inlet and drain opening G1"
6	Anode
7	Sensor tube for DHW sensor

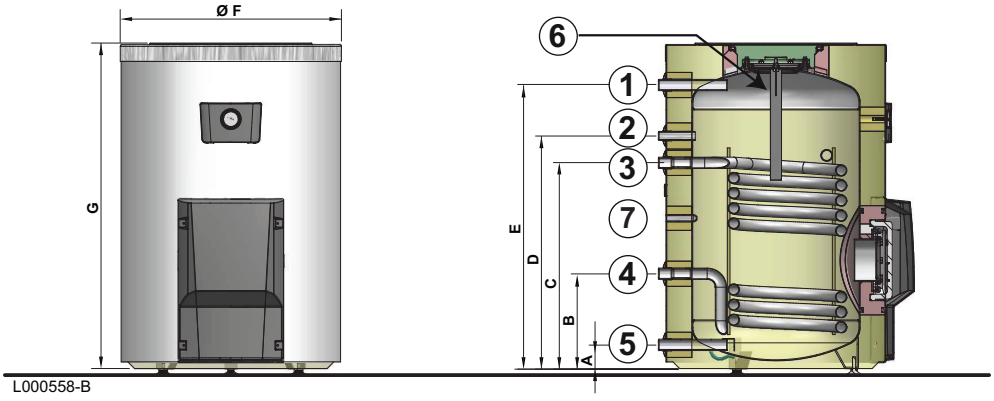
Important
G: Cylindrical threading, sealed by sheet gasket

Tab.4

	BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
A	70	70	70	66	71
B	282	282	282	282	283
C	612	747	972	972	1152
D	692	910	1262	1220	1348
E	844	1114	1634	1509	1618
F (Ø)	655	655	655	755	805
G	964	1234	1754	1642	1760

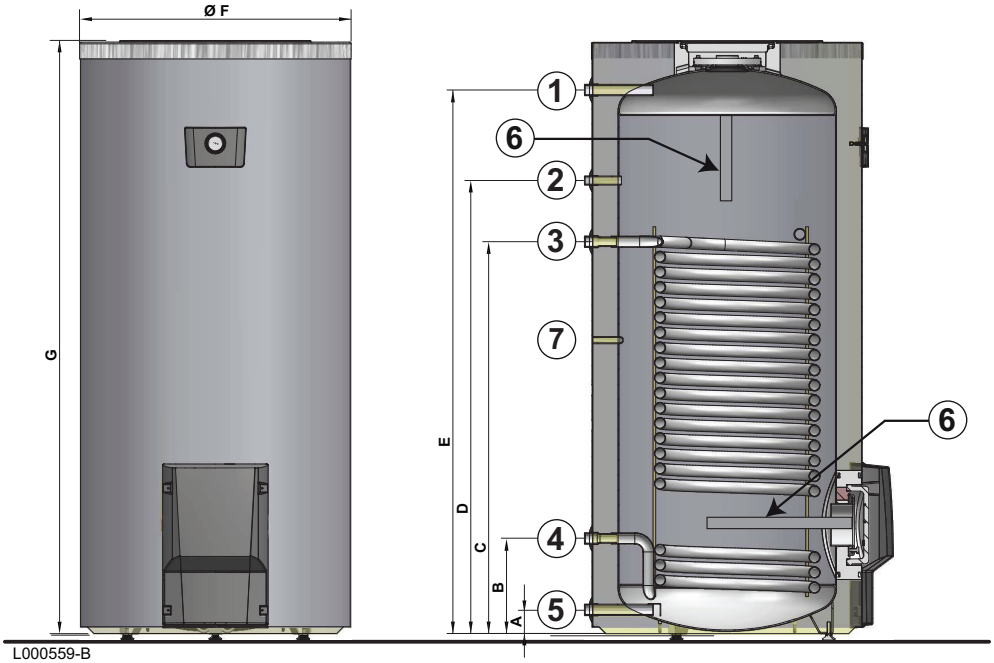
■ **BPB 150**

Fig.3



■ BPB 200 – BPB 300 – BPB 401 – BPB 501

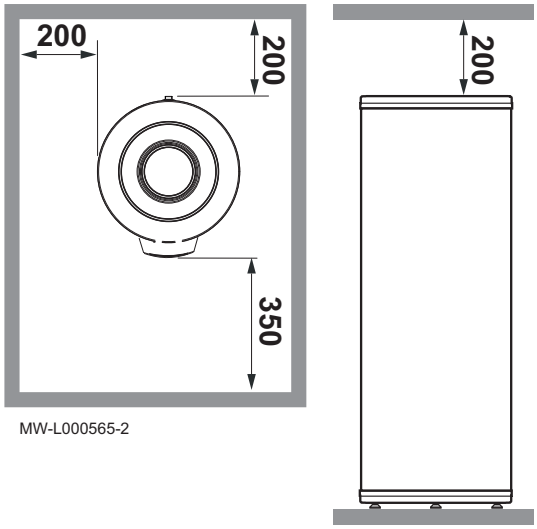
Fig.4



6 Installation

6.1 Positioning the appliance

Fig.5



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Caution
- Have 2 people available.
- Handle the appliance with gloves.

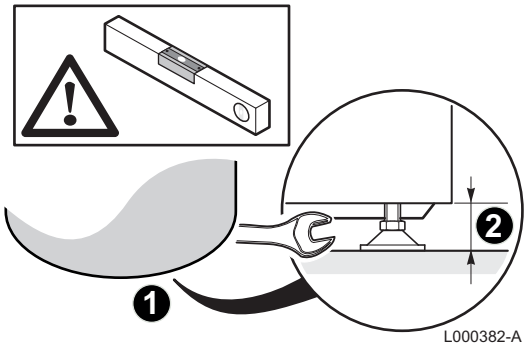
Caution
Leave 500 mm of clearance around the anodes to facilitate access.

1. Remove the packaging from the tank but leave the tank on the shipping pallet.
2. Remove the protective packaging.
3. Remove the three screws securing the tank to the pallet.
4. Lift the tank and place it in its final position, respecting the distances shown on the diagram.

6.2 Levelling the domestic hot water tank

The domestic hot water tank is levelled using the three feet (supplied in the bag) to be screwed to the bottom of the domestic hot water tank.

Fig.6



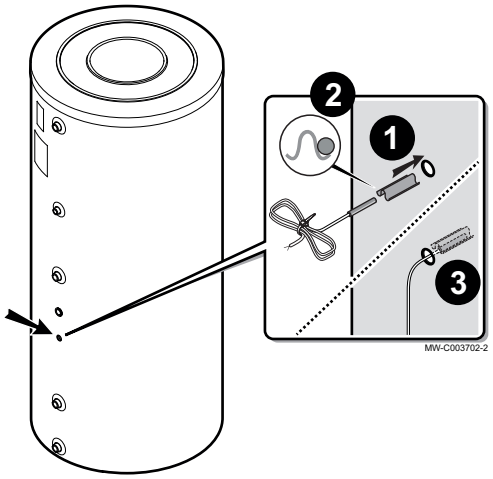
L000382-A

1. Screw the three adjustable feet to the bottom of the domestic hot water tank.
2. Level the appliance using the adjustable feet.
   - Adjustment range: 10 mm.
   - Use metal blocks under the feet of the tank if necessary.

Caution
Do not place the blocks on the exterior sides of the domestic hot water tank.

6.3 Putting the domestic hot water sensor in place

Fig.7



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1. Position the probe in the sensor tube, using the sensor tube separator.

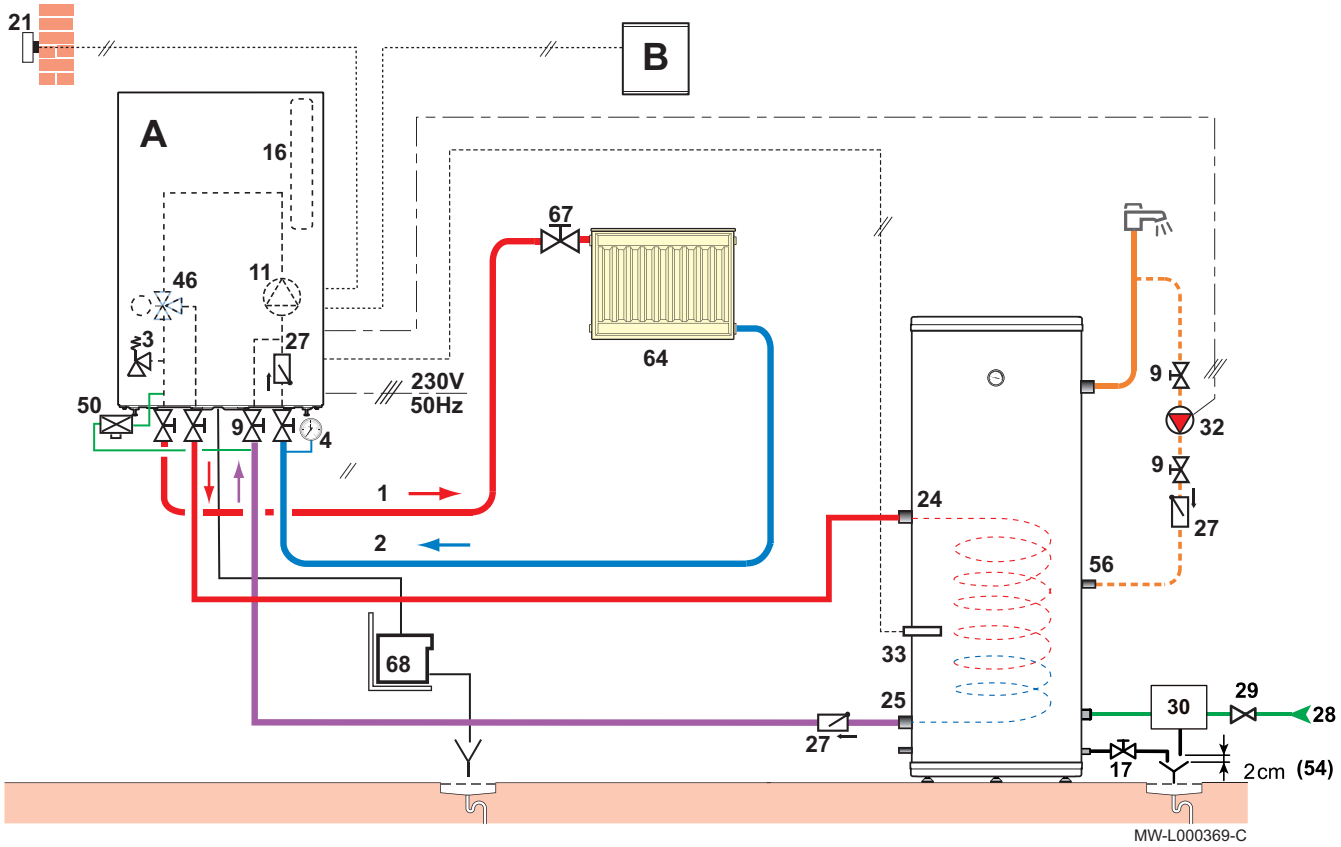
Important
The sensor tube separator is provided in the documentation bag.

2. Check that the probes are correctly positioned in the sensor tube.
3. Check the mounting of the sensor tube separator.

6.4 Hydraulic installation diagram

6.4.1 Example with a wall-hung boiler or a heat pump

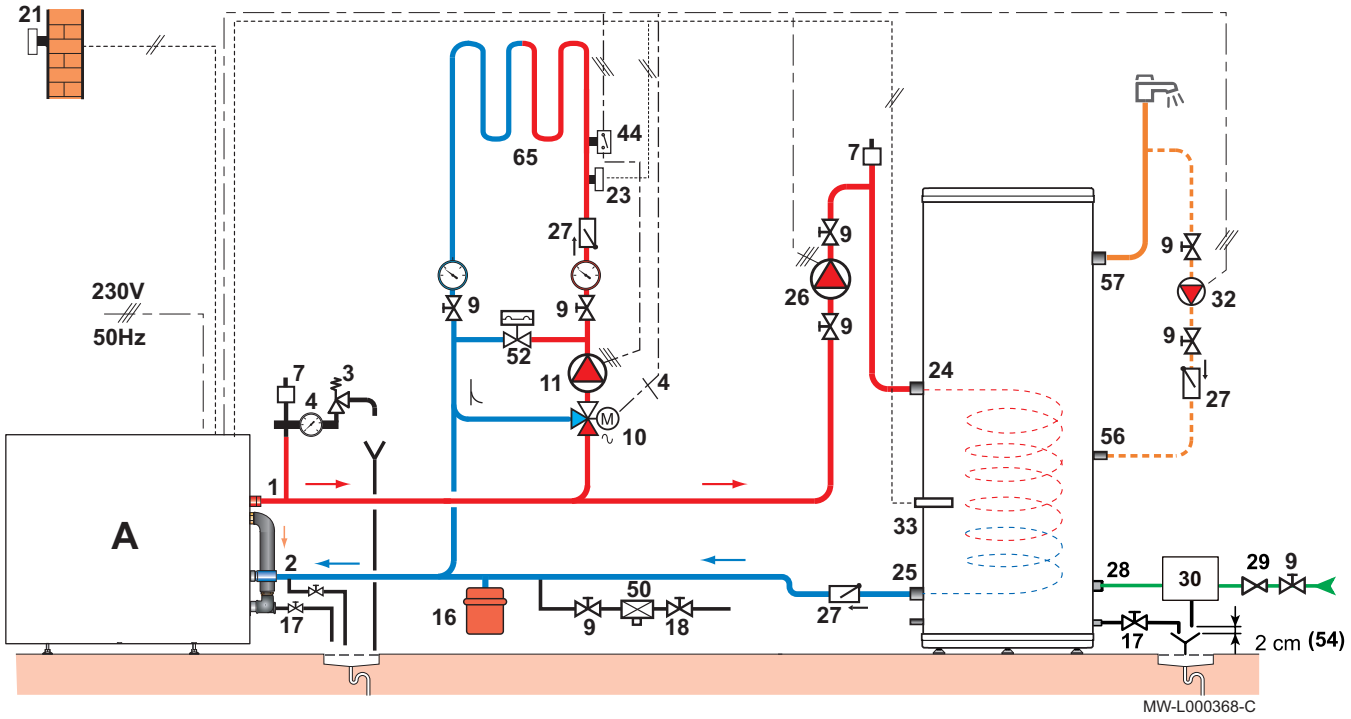
Fig.8



A	Boiler, heat pump
B	Regulator
1	Heating flow
2	Heating return
3	3-bar safety valve
4	Pressure gauge
7	Automatic air vent
9	Isolation valve
10	Three-way mixing valve
11	Heating pump
16	Expansion vessel
17	Drain valve
18	Filling the heating circuit
21	Outdoor temperature sensor
23	Flow temperature sensor after mixer valve
24	Domestic hot water tank exchanger primary inlet
25	Domestic hot water tank exchanger primary outlet
26	DHW booster pump
27	Non-return valve
28	Domestic cold water inlet
29	Pressure reducer
30	Safety unit
32	Domestic hot water circulation loop pump
33	Domestic hot water temperature sensor
44	Thermostat limiting the temperature to 65°C with manual reset for underfloor heating
46	3-way directional valve with reversal motor
50	Disconnector
52	Differential valve
54	End of the discharge pipe free and visible 2 to 4 cm above the flow funnel
56	Circulation
57	Domestic hot water outlet
64	Direct heating circuit (example: radiators)
65	Heating circuit which may be at low temperature (heated floor or radiators)
67	Manual radiator valve
68	Condensates neutralisation system
109	Domestic hot water thermostatic mixing valve
201	DHW expansion vessel

6.4.2 Example with a floor-standing boiler

Fig.9



A	Boiler
1	Heating flow
2	Heating return
3	3-bar safety valve
4	Pressure gauge
7	Automatic air vent
9	Isolation valve
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68	Condensates neutralisation system
109	Domestic hot water thermostatic mixing valve
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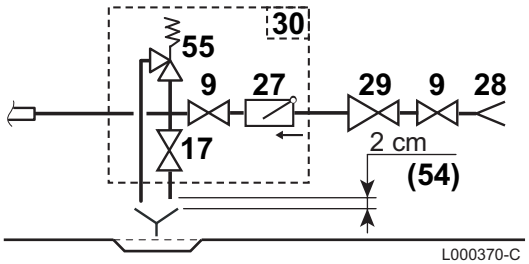
6.4.3 Safety unit (except France)

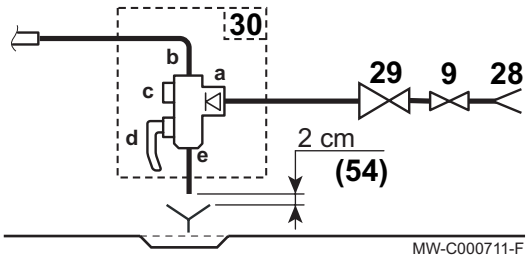
Fig.10



9	Isolation valve
17	Drain valve
27	Non-return valve
28	Domestic cold water inlet
29	Pressure reducer
30	Safety unit
54	End of the discharge pipe free and visible 2 to 4 cm above the flow funnel
55	Safety valve 0.7 MPa (7 bar)

6.4.4 Safety unit (only for France)

Fig.11



9 Isolation valve
28 Domestic cold water inlet
29 Pressure reducer
30 Safety unit
54 End of the discharge pipe free and visible 2 to 4 cm above the flow funnel
a Cold water inlet with an integrated non-return valve
b Connection at the cold water inlet of the DHW tank
c Stop cock
d Safety valve 0.7 MPa (7 bar)
e Drain opening

6.5 Hydraulic connections

6.5.1 Hydraulic connection of the primary circuit (exchanger circuit)

For the hydraulic connections of 200 L to 500 L tanks to the boiler (on the left- or right-hand side), use the hydraulic connection kits provided as optional extras.

For connection using these kits, refer to the instructions delivered with them.

For more information, see
Hydraulic installation diagram, page 15

6.5.2 Connecting the tank to the domestic water circuit (secondary circuit)

During connection, it is imperative that the standards and corresponding local directives be respected. Insulate the pipes to keep heat losses to a minimum.

Belgium: Make the connections in accordance with Belgaqua technical instructions.

■ Specific precautions

Before making the connection, **flush the drinking water inlet pipes** in order not to allow metal or other particles into the appliance's tank.

■ Provision for Switzerland

Make the connections according to the requirements of the Société Suisse de l'Industrie du Gaz et des Eaux Comply with local requirements from water distribution plants.

■ Safety valve

Caution
In accordance with safety rules, a safety valve calibrated to 7 bar (0.7 MPa) is mounted on the domestic hot water tank's domestic cold water inlet.

France: We recommend NF-marked hydraulic diaphragm safety units.

- Integrate the safety valve in the cold water circuit.
- Install the safety valve close to the DHW tank in a place with easy access.

■ Sizing

- The diameter of the safety unit and its connection to the tank must be at least equal to the diameter of the domestic cold water inlet on the tank.

- There must be no cut-off devices between the safety valve or unit and the domestic hot water tank.
- The discharge pipe in the safety valve or unit must not be blocked.

To avoid obstructing the flow of water in the event of overpressure:

Isolation valves

Hydraulically isolate the primary and domestic circuits with isolation valves to facilitate maintenance on the domestic hot water tank. The valves make it possible to carry out maintenance on the domestic hot water tank and its components without draining the entire installation.

These valves are also used to isolate the domestic hot water tank when conducting a pressurised check on the tightness of the installation if the test pressure is greater than the admissible operating pressure for the domestic hot water tank.

Connecting the domestic cold water

Connect to the cold water supply according to the hydraulic installation diagram.

The components used for the connection to the cold water supply must comply with the prevailing standards and regulations in the country concerned.

- Install a water drain in the boiler room and a funnel-siphon for the safety unit.
- Fit a non-return valve to the domestic cold water circuit.
- Install a dielectric union on the domestic cold water inlet.

Pressure reducer

If the supply pressure exceeds 80% of the safety valve or unit calibration (e.g.: 0.55 MPa/5.5 bar for a safety unit calibrated to 0.7 MPa/7 bar), a pressure reducer must be located upstream of the appliance.

Install the pressure reducer downstream of the water meter in such a way as to ensure the same pressure in all of the system's pipes.

Domestic hot water circulation loop

To guarantee the availability of hot water as soon as the taps are turned on, a circulation loop between the draw-off points and the recirculation pipes in the domestic hot water tank can be installed. A non-return valve must be included in this loop.

Run the domestic hot water circulation loop via the boiler control system or an additional timer program to optimise energy consumption.

Measures to take to prevent hot water flow return

Fit a non-return valve to the domestic cold water circuit.

7 Commissioning

7.1 Protection against Legionella (500 litres only)

Warning
For domestic hot water tanks with a capacity of more than 400 litres: must comply with the Order titled "Protection against legionella"

- France: Order of 30 November 2005
- Germany: TrinkwV 2011 - Order of 01 November 2011 on water quality
- Other countries: Observe current regulations

Apply one of the two settings below:

- The domestic hot water at the appliance outlet must be at a temperature of 55 °C or above at all times.
- The domestic hot water must be brought up to a minimum temperature for a minimum duration at least once every 24 hours. See table below:

Tab.5

Minimum temperature maintenance time (minutes)	Water temperature (°C)
2	70 or above
4	65
60	60

7.2 Commissioning the appliance

Caution
Initial commissioning must be performed by a qualified professional.

1. Flush the domestic water circuit and fill the tank through the cold water inlet pipe.
2. Open a hot water tap.
3. Completely fill the domestic hot water tank via the cold water inlet pipe, leaving the hot water tap open.
4. Close the hot water tap when the water flow is regular, without any noises in the pipes.
5. Carefully vent all of the domestic hot water pipes by repeating steps 2 to 4 for each hot water tap.

Important
Carefully degas the domestic hot water tank and the distribution network in order to eliminate noises and hammering caused by trapped air moving in the pipes during draw-off.

6. Vent the DHW tank exchanger circuit using the air vent provided for this purpose.
7. Check the safety components (particularly the safety valve or safety unit), referring to the instructions provided with those components.

Caution
During the heating process, a certain amount of water may escape via the safety valve or unit because of the expansion of the water. This phenomenon is perfectly normal and no steps should be taken to prevent it.

7.3 Domestic water quality

In regions where the water is very hard (Th > 20 °fH (11 °dH)), we recommend fitting a softener.

The water hardness must always be between 12 °fH (7 °dH) and 20 °fH (11 °dH) to be capable of providing effective protection against corrosion.

The softener does not bring about a derogation from our warranty provided that it is approved and set pursuant to the codes of practice and the recommendations given in the instructions for the softener and is regularly inspected and maintained.

8 Maintenance

8.1 General instructions

Caution

- Maintenance operations must be completed by a qualified installer.
- Use only genuine spare parts.

8.2 Safety valve or safety unit

1. The safety valve or unit on the domestic cold water inlet must be operated at least **once a month** in order to ensure that it works properly and take precautions against possible pressure surges which would damage the domestic hot water tank.

Warning
Failure to follow this maintenance requirement may lead to the deterioration of the domestic hot water tank and void its warranty.

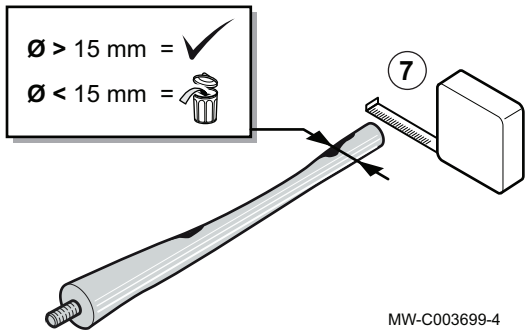
8.3 Cleaning the casing

1. Clean the outside of appliances using a damp cloth and a mild detergent.

8.4 Checking the magnesium anode

The magnesium anode must be checked at least every 2 years After the first check and in light of the degree of wear of the anode, it is necessary to determine the frequency of future checks.

Fig.12



1. Remove the inspection hatches.

Important
Descale the DHW tank if necessary.

2. Measure the diameter of the anode.
   ⇨ Replace the anode if its diameter is less than 15 mm.
3. Reassemble the anode/inspection hatch unit.

For more information, see
Remove the inspection hatches, page 22
Putting the inspection hatches back in place, page 22

8.5 Removing limescale

In hard water regions, we recommend annual descaling in order to maintain performance.

1. Remove the inspection hatches.
2. Check the magnesium anode each time the hatch is opened.
3. Remove limescale deposits in the form of sludge or strips from the bottom of the tank. However, do not touch the limescale adhering to the walls of the tank as it provides effective protection against corrosion and improves the insulation of the domestic hot water tank.
4. Remove limescale deposits from the exchanger to guarantee its performance.
5. Remount the unit.

For more information, see
Remove the inspection hatches, page 22
Checking the magnesium anode, page 21
Putting the inspection hatches back in place, page 22

8.6 Removing and reinstalling the inspection hatches.

Caution
Have a new lip gasket and a new retainer ring on hand for the inspection hatch.

8.6.1 Remove the inspection hatches

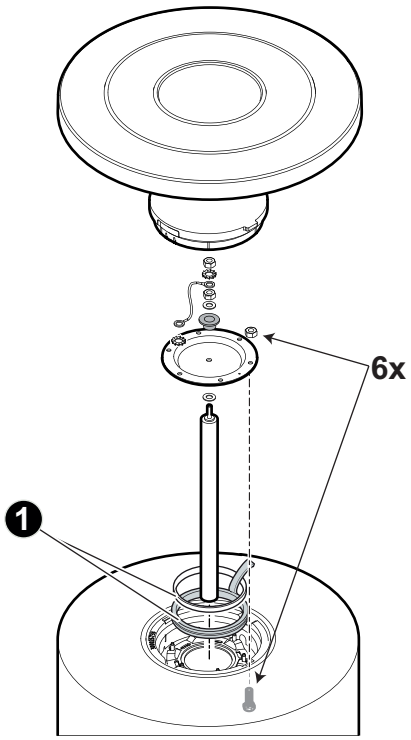
1. Shut off the domestic cold water inlet.
2. Drain the tank.

Important
The domestic cold water inlet is also the drain opening.

3. Remove the inspection hatches.

8.6.2 Putting the inspection hatches back in place

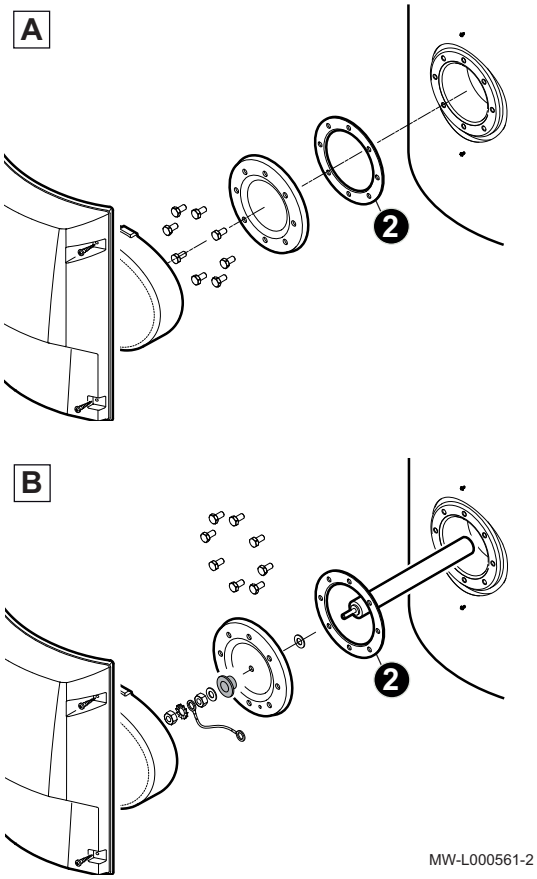
Fig.13



Caution
To ensure tightness, the lip gasket and retainer ring unit must be replaced by new parts each time the unit is opened.

1. Replace the lip gasket and position it in the inspection trap opening, making sure that you place its lug outside the domestic hot water tank.

Fig.14



2. Replace the sheet gasket.
   Tab.6

A	Side inspection hatch without anode
B	Side inspection hatch with anode

3. Remount the unit.

Caution
Use a torque wrench.

Magnesium anode: torque load 8 Nm.
The retaining screws on the inspection hatch must not be over tightened.

Tab.7

Flange	Torque load
Lip gasket	6 Nm +1/-0
Sheet gasket	15 Nm

Important
Approximately 6 Nm is obtained by manipulating the box spanner with the small lever and 15 Nm by manipulating it with the large lever.

4. After reassembly, check the tightness of the lateral flange.
5. Proceed with commissioning.

For more information, see
Commissioning the appliance, page 19

8.7 Maintenance form

Tab.8

No.	Date	Checks made	Remarks	By	Signature

No.	Date	Checks made	Remarks	By	Signature

9 Disposal and Recycling

Fig.15

MW-3000179-03

Important
Removal and disposal of the domestic hot water tank must be carried out by a qualified installer in accordance with local and national regulations.

1. Cut the electricity to the domestic hot water tank.
2. Disconnect the cables on the electrical components.
3. Close the domestic water inlet valve.
4. Drain the installation.
5. Dismantle all water connections fitted to the domestic hot water tank outlet.
6. Scrap and recycle the domestic hot water tank in accordance with local and national regulations.

10 Spare parts

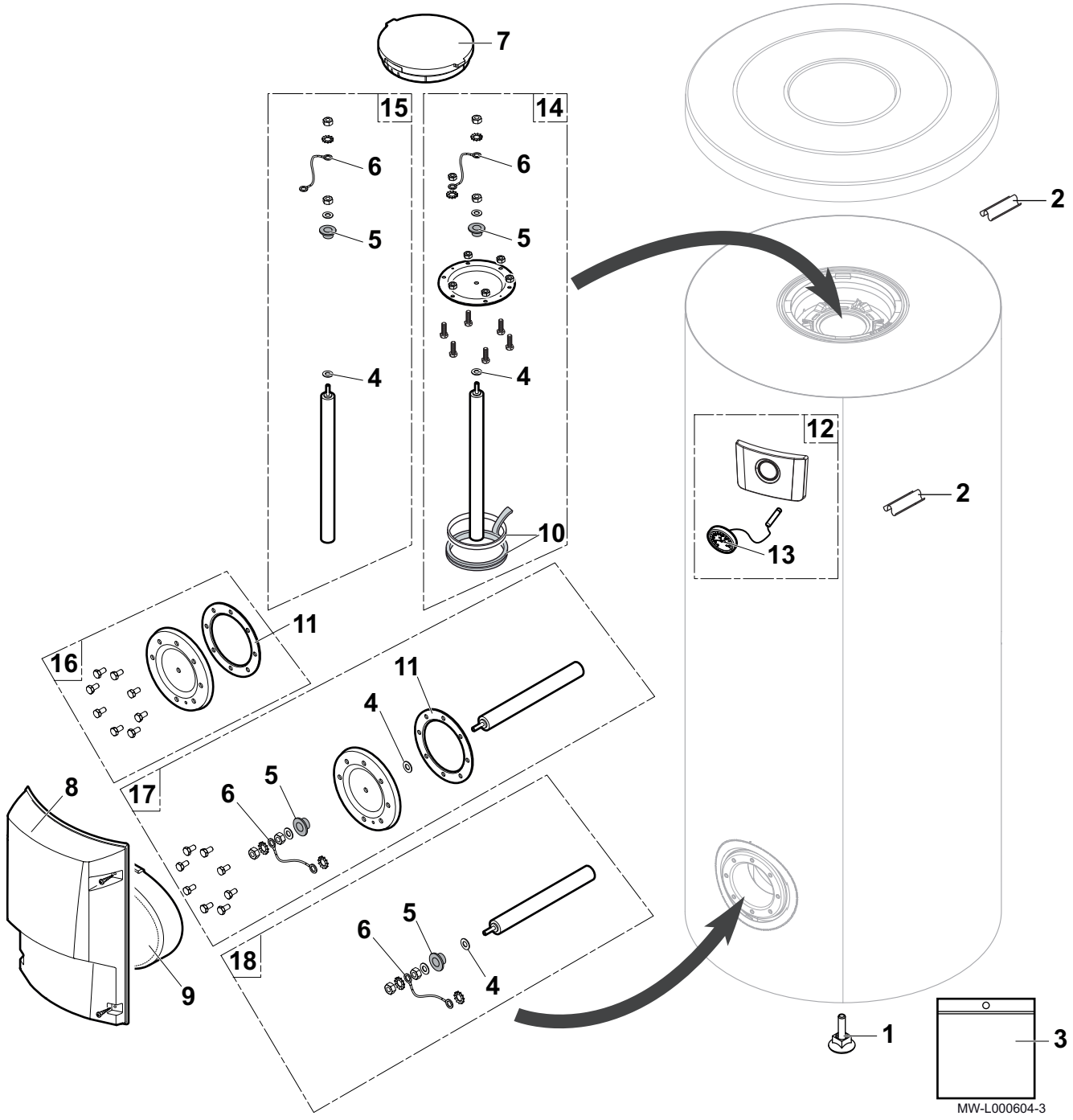
10.1 General

When it is observed subsequent to inspection or maintenance work that a component in the appliance needs to be replaced, use only original spare parts or recommended spare parts and equipment.

Important
To order a spare part, give the reference number shown on the list.

10.2 Domestic hot water tanks

Fig.16



Tab.9

Mark-ers	Reference	Description	BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
1	97860646	Adjustable foot M10 x 35	x	x	x	x	x
2	95365619	Sensor tube separator, 115cm	x	x	x	x	x
3	200021501	Inspection hatch fittings	x	x	x	x	x
4	95014035	Gasket Ø 35 x 8.5 x 2	x	x	x	x	x
5	94974527	Nylon spacer	x	x	x	x	x
6	89604901	Anode earthing wire	x	x	x	x	x
7	300026745	Insulation, top hatch	x	x	x	x	x
8	7622105	Side cover	x	x	x	x	x
9	7614394	Insulation side inspection trap	x	x	x	x	x
10	89705511	Gasket 7 mm + retainer ring 5 mm	x	x	x	x	x
11	300026031	Sheet gasket	x	x	x	x	x
12	7688463	Side cover and thermometer	x	x	x	x	x
13	7676809	AFRISO thermometer	x	x	x	x	x
14	89555506	Complete top inspection hatch with one anode, gaskets and screws	x				
14	89555501	Complete top inspection hatch with one anode, gaskets and screws		x			
14	200022433	Complete top inspection hatch with one anode, gaskets and screws			x		
14	200007273	Complete top inspection hatch with one anode, gaskets and screws				x	
14	200022536	Complete top inspection hatch with one anode, gaskets and screws					x
15	89608950	Complete anode, diameter 33 mm - length 420 mm (1x) - for top inspection hatch	x				
15	89588912	Complete anode, diameter 33 mm - length 290 mm (1x) - for top inspection hatch		x			
15	89708901	Complete anode, diameter 33 mm - length 330 mm (1x) - for top inspection hatch			x		
15	89628562	Complete anode, diameter 33 mm - length 450 mm (1x) - for top inspection hatch				x	
15	200022500	Complete anode, diameter 33 mm - length 530 mm (1x) - for top inspection hatch					x
16	200021970	Complete side cover with gaskets and screws	x				
17	200022439	Complete side inspection hatch with anode, gaskets and screws		x			
17	200021971	Complete side inspection hatch with anode, gaskets and screws			x	x	
17	200022441	Complete side inspection hatch with anode, gaskets and screws					x
18	89538509	Complete anode, diameter 33 mm - length 180 mm (1x) - for side inspection hatch		x			
18	89708901	Complete anode, diameter 33 mm - length 330 mm (1x) - for side inspection hatch			x	x	
18	89608950	Complete anode, diameter 33 mm - length 420 mm (1x) - for side inspection hatch					x

11 Warranty

11.1 General

You have just purchased one of our appliances and we thank you for the trust you have placed in our products.

Please note that your appliance will provide good service for a longer period of time if it is regularly checked and maintained.

Our customer support network is at your disposal at all times.

11.2 Terms of warranty

France: The following provisions are not exclusive of the buyer being able to benefit from the legal warranty stipulated in Articles 1641 to 1648 of the Civil Code.

Belgium: The following provisions regarding the contractual warranty are not exclusive of the buyer being able to benefit from the legal provisions applicable in Belgium regarding hidden defects.

Switzerland: The warranty is applied in accordance with the terms of sale, delivery and warranty of the company marketing De Dietrich products.

Portugal: The following provisions do not adversely affect consumers' rights, as laid down in Decree-Law 67/2003 of 8 April amended by Decree-Law 84/2008 of 21 May, warranties on sales of consumer goods and other implementing rules.

Other countries: The following provisions do not affect the application, in favour of the buyer, of the legal provisions with regard to hidden defects that are applicable in the buyer's country.

The duration of our warranty is shown on the certificate delivered with the appliance. As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation is carried out by a qualified professional).

The duration of our warranty is shown on the certificate delivered with the appliance. As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation and maintenance works are carried out by a qualified professional and by an after-sales service company, respectively).

The terms of warranty can be found on the warranty card. As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation is carried out by a qualified professional).

The warranty period is stated in our price list. As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation is carried out by a qualified installer).

In particular, we cannot be held liable for material damage, intangible losses or physical injury resulting from an installation that does not comply with:

- the legal and regulatory requirements laid down by national laws and the regulations of local authorities,
- our instructions and prescriptions on installation and maintenance in accordance with prevailing legislation.

Our warranty is limited to the replacement or repair of the parts found to be defective by our technical services team, excluding labour, transfer and transport costs.

Our warranty is limited to the replacement or repair of the parts found to be defective by our technical services team.

The foregoing provisions in no way affect the rights of the consumer, which are guaranteed by the legislation of the Russian Federation as regards hidden defects. The terms and conditions of warranty and the terms and conditions of application of the warranty are indicated on the warranty form. The warranty shall not apply as regards the replacement or repair of wearing parts under normal use. Such parts include thermocouples, injection nozzles, flame control and ignition systems, fuses and gaskets.

12 Appendix

12.1 Product fiche - Hot water storage tanks

Tab.10 Product fiche for hot water storage tanks

Brand name - Product name		BPB 150	BPB 200	BPB 300	BPB 401	BPB 501
Energy efficiency class		B	B	B	B	B
Standing loss	W	46	54	67	70	82
Storage volume	l	145	195	290	385	485

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