

Independent domestic hot water tanks

BL 150...500



Installation, User and Service Manual

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1 Introduction

1.1 Used symbols

In these instructions, various danger levels are employed to draw the user's attention to particular information. In so doing, we wish to safeguard the user's safety, obviate hazards and guarantee correct operation of the appliance.



DANGER

Risk of a dangerous situation causing serious physical injury.



WARNING

Risk of a dangerous situation causing slight physical injury.



CAUTION

Risk of material damage.



Signals important information.



Signals a referral to other instructions or other pages in the instructions.

1.2 Abbreviations

- ▶ **CFC**: Chlorofluorocarbon
- ▶ **DHW**: Domestic hot water

1.3 General

1.3.1. Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various applicable European Directives. They are therefore delivered with **CE** marking and all relevant documentation.

In the interest of customers, we are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.

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

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

1.3.2. Installer's liability

The installer is responsible for the installation and initial start up of the appliance. The installer must respect the following instructions:

- ▶ Read and follow the instructions given in the manuals provided with the appliance.
- ▶ Carry out installation in compliance with the prevailing legislation and standards.
- ▶ Perform the initial start up and carry out any checks necessary.
- ▶ Explain the installation to the user.
- ▶ If a maintenance is necessary, warn the user of the obligation to check the appliance and maintain 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 appliance, the user must respect the following instructions:

- ▶ Read and follow the instructions given in the manuals provided with the appliance.
- ▶ Call on qualified professionals to carry out installation and initial start up.
- ▶ Get your fitter to explain your installation to you.
- ▶ Have the required checks and services done.
- ▶ Keep the instruction manuals in good condition close to the appliance.

This appliance is not intended to be used by persons (including children) whose physical, sensory or mental capacity is impaired or persons with no experience or knowledge, unless they have the benefit, through the intermediary of a person responsible for their safety, of supervision or prior instructions regarding use of the appliance. Care should be taken to ensure that children do not play with the appliance.

1.4 Homologations

1.4.1. Certifications

This product complies to the requirements to the european directives and following standards:

- ▶ 2006/95/EC Low Voltage Directive.
Reference Standard: EN 60.335.1.
- ▶ 2004/108/EC Electromagnetic Compatibility Directive.
Reference Standards: EN 50.081.1, EN 50.082.1, EN 55.014

1.4.2. Directive 97/23/EC

This product conforms to the requirements of european directive 97 / 23 / EC, article 3, paragraph 3, on pressure equipment.

1.4.3. Factory test

Before leaving the factory, each appliance is tested for the following:

- ▶ Water tightness
- ▶ Air tightness
- ▶ Electrical safety.

2 Safety instructions and recommendations

2.1 Safety instructions

**CAUTION**

Before any work, switch off the mains supply to the appliance.

**CAUTION**

In order to limit the risk of being scalded, the installation of a thermostatic mixing valve on the domestic hot water flow piping is compulsory.

2.2 Recommendations

**CAUTION**

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

**WARNING**

Only qualified professionals are authorised to work on the appliance and the installation.

**WARNING**

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

- ▶ To take advantage of the guarantee, no modifications must be made to the appliance.
- ▶ To reduce heat losses as much as possible, insulate the pipes.

Casing components

Only remove the casing for maintenance and repair operations. Put the casing back in place after maintenance and repair operations.

Instructions 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.

3 Technical description

3.1 General description

BL 150...500 are high performance independent domestic hot water tanks.

DHW calorifiers BL 150...500 can be connected to central heating boilers used for heating domestic hot water.

Main parts:

- ▶ 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, the external surface of which, which is in contact with domestic water, is enamelled.
- ▶ The appliance is insulated by CFC-free polyurethane foam, which reduces heat losses to a minimum
- ▶ The insulating material can be easily detached from the tank. This measure facilitates the recycling of materials.
- ▶ The tank is protected against corrosion by a magnesium anode which should be checked every 2 years and replaced if need be. The tanks with the greatest capacity (BL 300, BL 400, BL 500) are fitted with 2 protection anodes.

3.2 Technical characteristics

3.2.1. Characteristics of the DHW calorifier

		BL 150	BL 200	BL 300	BL 400	BL 500
Primary circuit (heating water)						
Maximum operating temperature	°C	90	90	90	90	90
Maximum operating pressure	bar	10	10	10	10	10
Exchanger capacity	l	4.9	5.7	8.0	11.2	14.9
Exchange surface	m ²	0.72	0.84	1.19	1.67	2.22
Secondary circuit (domestic water)						
Maximum operating temperature	°C	90	90	90	90	90
Maximum operating pressure	bar	10	10	10	10	10
Water content	l	150	200	300	400	500
Weight						
Shipping weight - DHW tank package	kg	88.5	107.5	155	238	290
Performances related to the boiler type						
(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 storage: 60 °C						

		BL 150	BL 200	BL 300	BL 400	BL 500
Power exchanged ⁽¹⁾	kW	28	33	44	55	70
Flow per hour ($\Delta T = 35\text{ °C}$) ⁽¹⁾	l/h	690	810	1080	1350	1720
Specific flow ($\Delta T = 30\text{ °C}$) (10 minutes) ⁽²⁾	l/h	220	325	510	620	780
(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 storage: 60 °C						

3.2.2. Specifications of the DHW sensor

Temperature in °C	10	20	25	30	40	50	60	70	80
Resistance in ohm	19691	12474	10000	8080	5372	3661	2536	1794	1290

4 Installation

4.1 Regulations governing installation



CAUTION

Installation of the appliance must be done by a qualified engineer in accordance with prevailing local and national regulations.



CAUTION

France: The installation must comply in all matters to the standards and rules which govern the work and interventions in individual and collective homes, and other constructions.

4.2 Package list

4.2.1. Standard delivery

The delivery includes:

- ▶ One DHW tank.
- ▶ One installation, use and service manual.

	BL 150	BL 200	BL 300	BL 400	BL 500
DHW tank package	EC 441	EC 442	EC 443	EC 444	EC 445

4.2.2. Accessories

Various options are available depending on the configuration of the installation:

	BL 150	BL 200	BL 300	BL 400	BL 500
Impressed current anode	AJ 38	AJ 38	AJ 38	AM 7	AM 7
Titanium anode ⁽¹⁾	EC 414	EC 414	-	-	-
Single phase shielded resistor 2.2 kW	EC 410	-	-	-	-
Multi-voltage shielded resistor 3.3 kW	-	-	EC 412	-	-

(1) The titanium anode can only be fitted to the DHW tank if this is connected to a boiler equipped with a Diematic 3 control panel which incorporates the TAS[®] function.

(2) The EG 88 steatite heating resistance must be accompanied by the installation of the AJ 38 impressed current anode in the top buffer tank in order to ensure adequate protection of the tank against corrosion.

	BL 150	BL 200	BL 300	BL 400	BL 500
Multi-voltage shielded resistor 4.5 kW	-	-	-	EC 413	EC 413
Multi-voltage steatite heating resistance 2.4 kW	-	EC 411	-	-	-
Multi-voltage steatite heating resistance 3 kW	-	-	EG 88 ⁽²⁾	-	-
SLA2 control system for load pump	EC 320	EC 320	EC 320	EC 320	EC 320

(1) The titanium anode can only be fitted to the DHW tank if this is connected to a boiler equipped with a Diematic 3 control panel which incorporates the TAS[®] function.

(2) The EG 88 steatite heating resistance must be accompanied by the installation of the AJ 38 impressed current anode in the top buffer tank in order to ensure adequate protection of the tank against corrosion.

**WARNING**

- ▶ The impressed current anode and the shielded electrical resistor cannot be fitted simultaneously.
- ▶ Respect the recommended anode / electrical resistor combinations as the electrical resistor is combined with a magnesium anode which, with the anode in the top section already in place, is calculated to protect the enamelled tank correctly.

4.3 Choice of the location

4.3.1. Data plate

The nameplate affixed to the tank provides important information regarding the appliance: serial number, model, etc.

**CAUTION**

The rating plate must be accessible at all times.

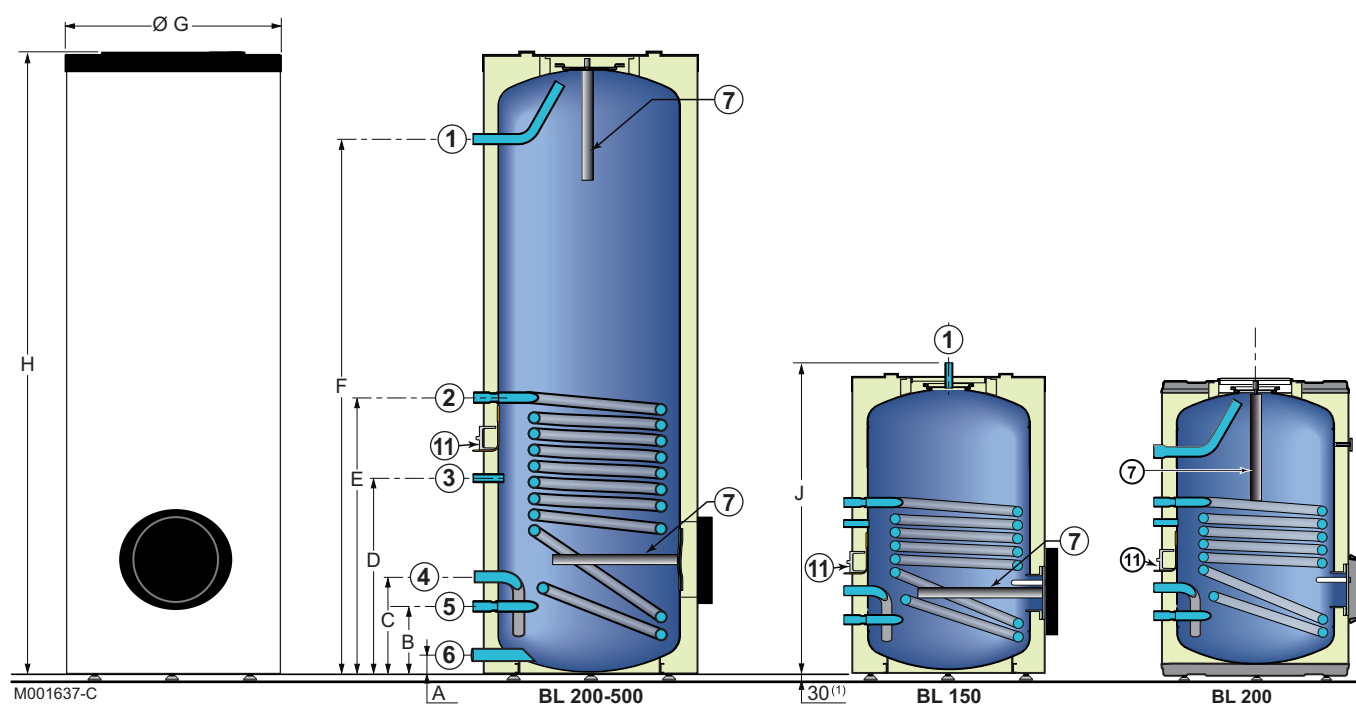
4.3.2. Location of the appliance

**CAUTION**

Put the appliance in a frost-free location.

- ▶ Place the appliance as close as possible to draw-off points in order to minimise energy losses through the pipes.
- ▶ Place the appliance on a base frame to facilitate cleaning of the premises.

4.3.3. Main dimensions



- ① Domestic hot water outlet (G 1)
- ② Exchanger inlet (G 1)
- ③ Circulation (G $\frac{3}{4}$)
- ④ Domestic cold water inlet (G 1)
BL 150 - BL 200 - BL 300: Drain opening
- ⑤ Exchanger outlet (G 1)
- ⑥ Drain opening (G 1)
except BL 150 - BL 200 - BL 300
- ⑦ Magnesium anode
BL 200: no anode on the side trap
- ⑪ Domestic hot water sensor

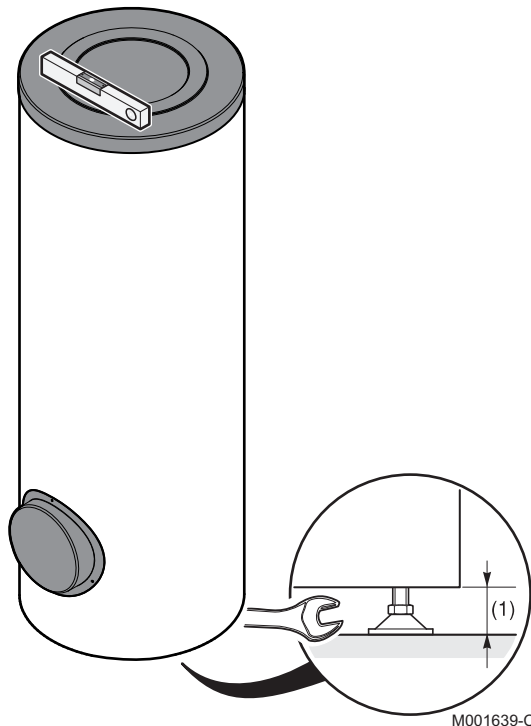
(1) : Adjustable feet



G : Exterior cylindrical threading, sealed by sheet gasket

	BL 150	BL 200	BL 300	BL 400	BL 500
A	-	-	-	68	68
B	188	188	188	211	206
C	268	268	268	302	304
D	493	408	543	804	791
E	588	633	768	991	986
F	-	948	1488	1381	1468
G (Ø)	600	600	600	750	750
H	900	1180	1754	1589	1725
J	941	-	-	-	-

4.4 Levelling



The DHW tank is levelled using the feet (delivered in the instructions pack) to be screwed to the bottom of the DHW tank:

- ▶ BL 150 - BL 200 - BL 300: 3 adjustable feet
- ▶ BL 400 - BL 500: 4 adjustable feet

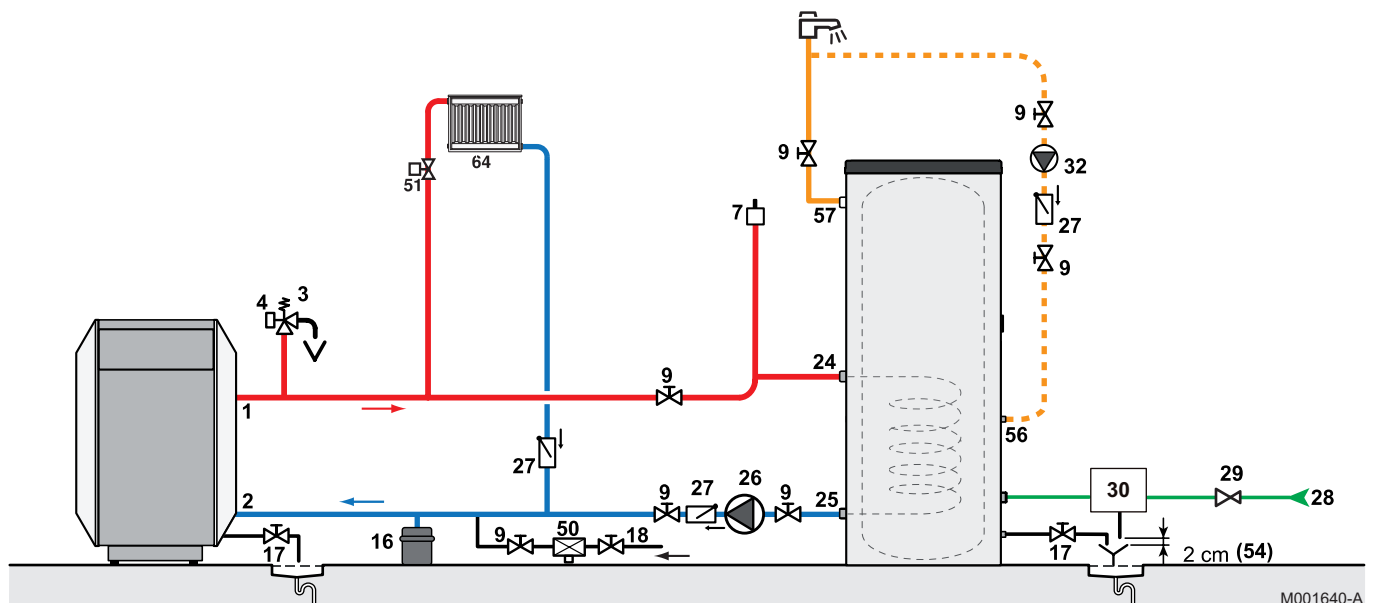
(1) Adjustment range: 30 to 40 mm



WARNING

- ▶ We recommend removing the flexible casing before handling (installation of the adjustable feet, placement of the domestic hot water tank, electrical connection, etc.).
- ▶ Put the casing back in place when work has been completed.

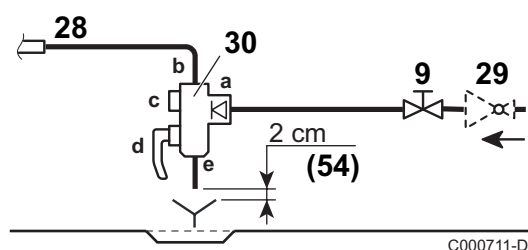
4.5 Hydraulic installation diagram



- | | |
|----|--------------------|
| 1 | Heating flow |
| 2 | Heating return |
| 3 | 3-bar safety valve |
| 4 | Pressure gauge |
| 7 | Automatic air vent |
| 9 | Isolating valve |
| 16 | Expansion vessel |

- 17 Drain cock
- 18 Filling the heating circuit
- 24 DHW tank heat exchanger primary inlet
- 25 DHW tank heat exchanger primary outlet
- 26 DHW pump
- 27 Non-return valve
- 28 Domestic cold water inlet
- 29 Safety unit
7-bar safety valve
- 30 Safety unit
- 32 D.H.W. loop back pump
- 51 Thermostatic 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 Circuit A: direct heating circuit (example: radiators)

4.5.1. Safety unit (For France)



- 9 Isolating 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

■ Details of the safety unit

- a Cold water inlet with an integrated non-return valve
- b Connection to the DHW tank cold water inlet
- c Stop cock
- d 7-bar safety valve
- e Drain opening

4.6 Hydraulic connections

4.6.1. Hydraulic connection of the primary circuit (exchanger circuit)



See diagram : "Hydraulic installation diagram", page 13.
For the hydraulic connection of 150 l to 300 l tanks and the boiler (right or left), we offer optional hydraulic connection kits.
For connection using these kits, refer to the instructions delivered with them.

4.6.2. Connecting the tank to the domestic water circuit (secondary circuit)

When making the connections, it is imperative that the standards and corresponding local directives are respected.

■ Specific precautions

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

■ Provision for Switzerland

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

■ Safety valve



CAUTION

In accordance with safety rules, a safety valve sealed at 7 bar is fitted to the domestic cold water inlet on the DHW tank.

France: We recommend NF-marked hydraulic membrane safety control units.

- ▶ Integrate the safety valve in the cold water circuit.
- ▶ Install the safety valve close to the tank in a place which is easy to access.

■ Size

The safety device and its connection to the DHW tank must be of at least the same diameter as the domestic cold water supply pipe of the tank domestic circuit.

No isolating devices should be located between the valve or safety device and tank.

The safety device drain pipe must have a uniform and sufficient gradient and its diameter must be at least equal to that of the outlet opening of the safety device (to prevent the flow of water being hindered if the pressure is too high).

The outlet pipe in the valve or safety assembly must not be blocked.

Germany: Define the dimensions of the safety valve in accordance with the DIN 1988 standard.

Capacity (litres)	Dimension of the valve Min. dimension of the inlet connection	Heating output (kW) (max)
< 200	R or Rp 1/2	75
200 to 1000	R or Rp 3/4	150

Fit the safety valve above the tank to avoid draining the tank during servicing.

Install a drainage valve at the lowest point on the tank.

■ Isolating valves

Hydraulically isolate the primary and secondary circuits using stop valves to facilitate maintenance operations on the unit. The valves make it possible to carry out maintenance on the tank and its components without draining the entire installation.

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



CAUTION

If the mains pipes are made of copper, fit a sleeve made of steel, cast iron or any other insulating material between the tank's hot water outlet and the pipes to prevent corrosion to the connection.

■ Connecting the domestic cold water

Make the connection to the cold water supply according to the hydraulic installation diagram.



Refer to the installation and maintenance instructions of the boiler.

Install a water drain in the boiler room and a "funnel-siphon" for the safety unit.

The components used for the connection to the cold water supply must comply with the prevailing standards and regulations in the country concerned. Fit a one-way valve to the domestic cold water circuit.

■ Pressure reducer

If the mains pressure exceeds 80% of the valve or safety unit setpoint (e.g.: 5.5 bar for a safety unit set at 7 bar), a pressure reducer must be fitted upstream of the appliance. Install the pressure reducer downstream the water meter in such a way as to ensure the same pressure in all of the installation 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 DHW tank can be installed. A non-return valve must be included in this loop.

■ Measures to take to prevent hot water flow reversal

Fit a one-way valve to the domestic cold water circuit.

4.7 Electrical connections

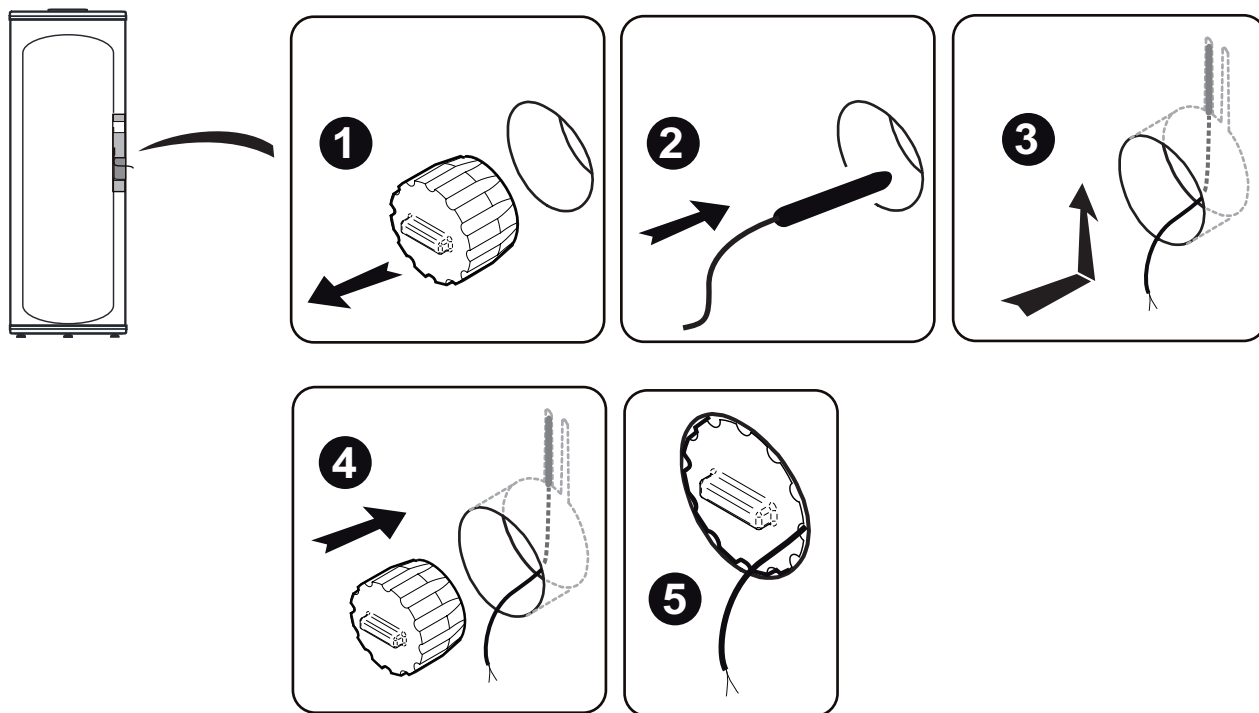
4.7.1. Recommendations



WARNING

Only qualified professionals may carry out electrical connections, always with the power off.

4.7.2. Fitting the DHW sensor



D000882

5 Commissioning

5.1 Putting the appliance into operation



CAUTION

Initial commissioning must be done by a qualified professional.

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



Carefully degas the DHW 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 tank exchanger circuit using the bleed valve provided for this purpose.
7. Check the safety devices (particularly the valve or safety unit), referring to the instructions provided with these components.



CAUTION

"During the heating process, a certain amount of water may flow through the valve or safety unit; this is caused by water expansion. This phenomenon is completely normal and must in no event be hindered".

6 Checking and maintenance

6.1 General instructions




CAUTION

- ▶ Maintenance operations must be done by a qualified engineer.
- ▶ Only original spare parts must be used.

6.2 Checking the magnesium anode

Carry out a visual check of the anode.

 See chapter: "Replacing the magnesium anode and descaling", page 20.

- ▶ The anode must be replaced if its diameter is less than 15 mm.
- ▶ The magnesium anode must be checked at least every 2 years. After the first check, determine the frequency of future checks on the basis of anode wear.

6.3 Safety valve or safety unit

The valve or safety assembly must be operated at least **once a month** in order to ensure that it is operating correctly and to prevent possible overpressure which would damage the DHW tank.



WARNING

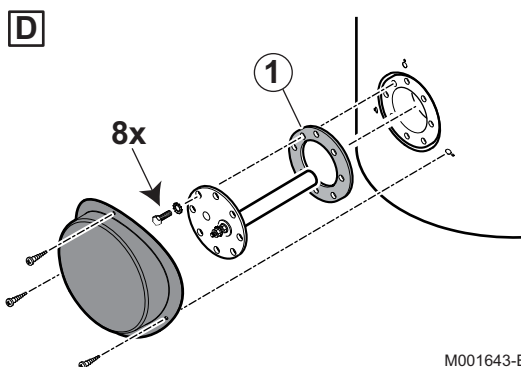
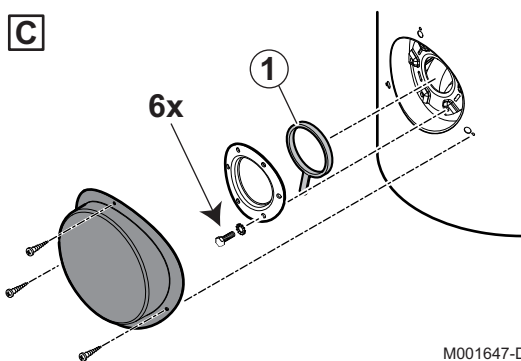
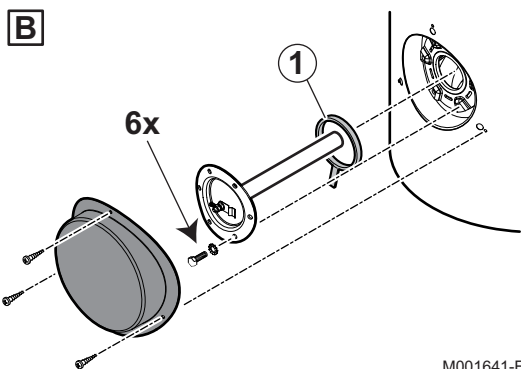
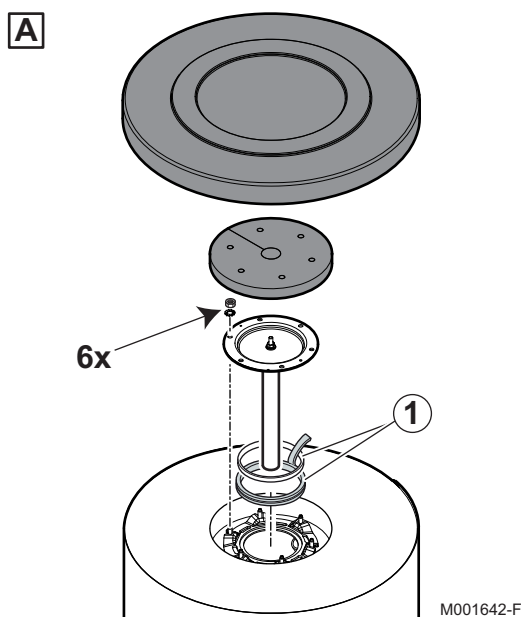
Failure to comply with this maintenance rule may cause deterioration of the DHW tank and the cancellation of the guarantee.

6.4 Cleaning the casing material

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

6.5 Replacing the magnesium anode and descaling

In regions with hard water, annual descaling of the appliance is recommended in order to maintain its performance.



Have a lip gasket and a retainer ring on hand for the inspection trap.

1. Cut off the cold water supply and drain the DHW tank.
2. Remove the inspection traps.

Model	BL 150	BL 200	BL 300	BL 400	BL 500
Diagram	B	A + C	A + B	A + D	A + D

3. Check the anodes and replace them if necessary.
4. Remove limescale deposits in the form of sludge or strips in the bottom of the tank. On the other hand, do not touch limescale adhering to the walls of the tank as it provides effective protection against corrosion and improves the insulation of the DHW tank.
5. Remove limescale deposits from the exchanger to guarantee its performance.
6. Replace the gasket ① and position it in the inspection hatch, taking care to place its lug (lip gasket) towards the outside of the DHW tank.



CAUTION

Each time it is opened, the lip gasket + retainer ring unit must be replaced to guarantee tightness.

7. Fit the unit together.



CAUTION

Use a dynamometric spanner.

The flange mounting bolts must not be excessively tight.

Torque load:

Lip gasket	6 N·m +1/-0
Sheet gasket	15 N·m



Approximately 6 N·m is obtained by manipulating the box spanner with the small lever and 15 N·m by manipulating it with the large lever.

8. After reassembly, check the watertightness of the lateral flange.
9. Switch on.

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7 Spare parts

7.1 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.



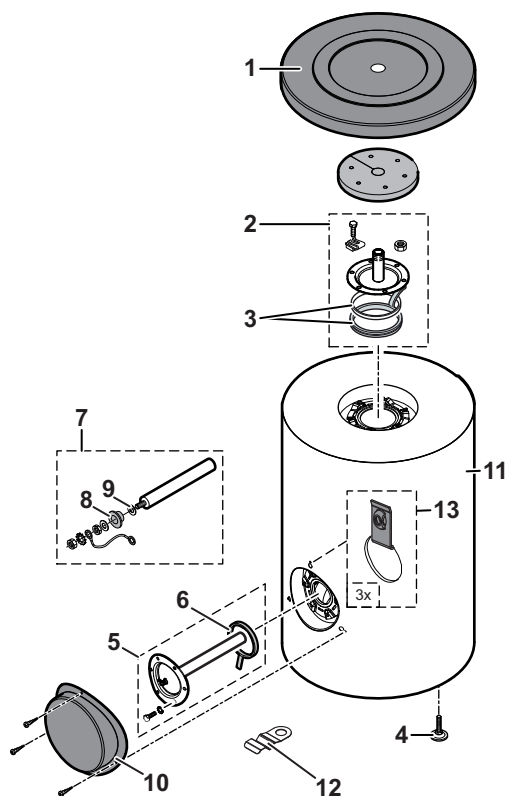
To order a spare part, give the reference number shown on the list.

7.2 Spare parts

Spare parts list reference: 300019417-002-C

7.2.1. Domestic hot water tanks

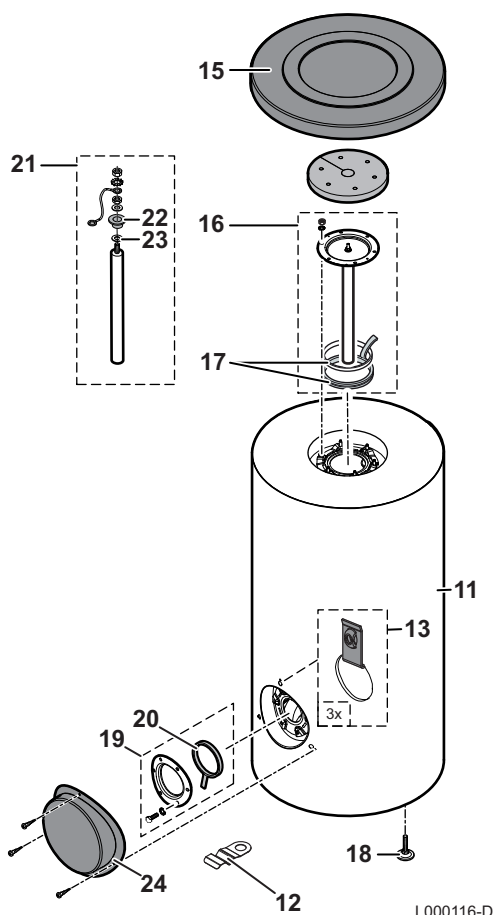
■ BL 150



L000115-C

Markers	Reference	Description
1	200015416	Top black casing
2	200007092	Complete top mounting
3	89705511	Seal kit 7 mm + retainer ring
4	97860646	Adjustable foot M10 x 35
5	89658518	Side cover Ø 82 with anode + seal
6	95013133	Lip seal outside Ø 82
7	89708901	Complete anode Ø 33 length 330
8	94974527	Nylon brace
9	95014035	Seal ø 35 x 8.5 x 2
10	200015430	Complete side cover
11	300019410	Casing ferrule
12	95365009	Sensor attachment lug
13	200017440	Casing screw

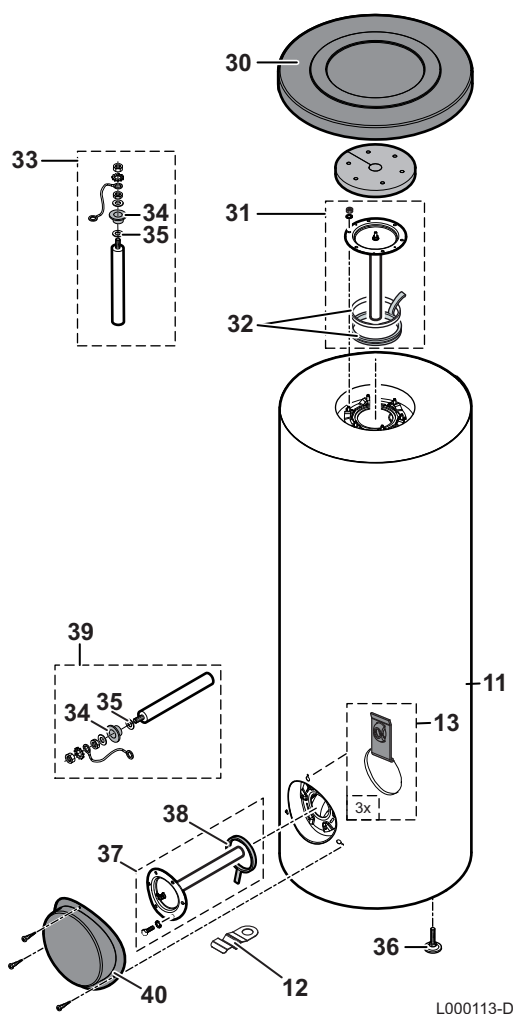
■ BL 200



L000116-D

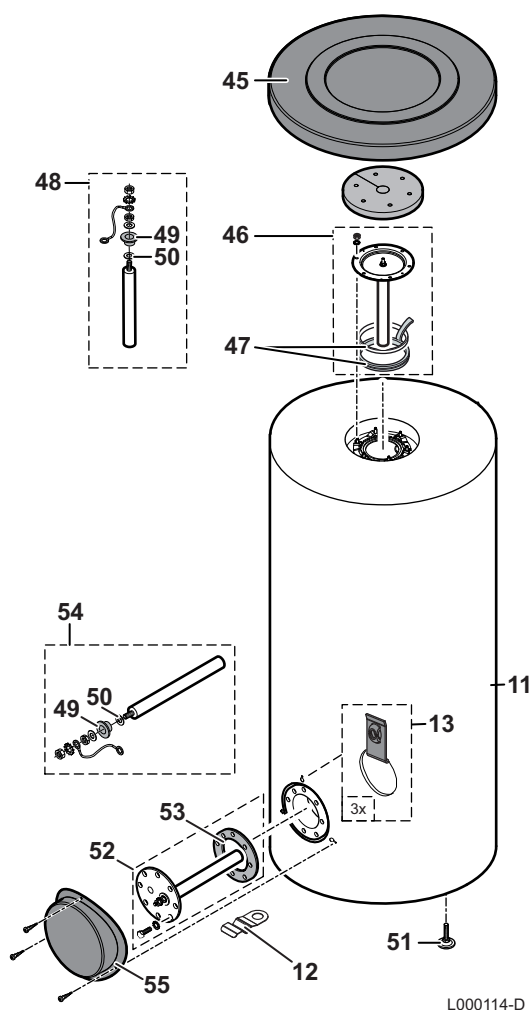
Markers	Reference	Description
11	300019411	Casing ferrule
12	95365009	Sensor attachment lug
13	200017440	Casing screw
15	300019414	Top cover
16	89555506	Complete top mounting Ø 112
17	89705511	Seal kit 7 mm + retainer ring
18	97860646	Adjustable foot M10 x 35
19	89658526	Complete lateral trap ø 82
20	95013133	Lip seal outside Ø 82
21	89608950	Complete anode Ø 33 length 420
22	94974527	Nylon brace
23	95014035	Seal ø 35 x 8.5 x 2
24	200015430	Complete side cover

■ **BL 300**



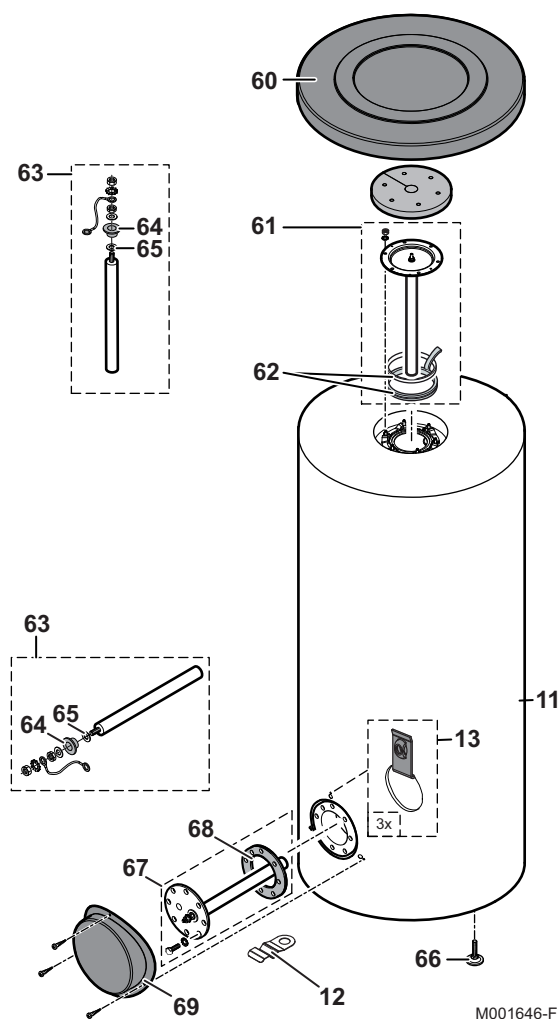
Markers	Reference	Description
11	300019412	Casing ferrule
12	95365009	Sensor attachment lug
13	200017440	Casing screw
30	300019414	Top black casing
31	89555501	Complete top mounting Ø 112
32	89705511	Seal kit 7 mm + retainer ring
33	89588912	Complete anode Ø 33 length 290
34	94974527	Nylon brace
35	95014035	Seal ø 35 x 8.5 x 2
36	97860646	Adjustable foot M10 x 35
37		Side cover Ø 82 with anode + seal
38	95013133	Lip seal outside Ø 82
39	89708901	Complete anode Ø 33 length 330
40	200015430	Complete side cover

■ BL 400



Markers	Reference	Description
11	300019422	Casing ferrule
12	95365009	Sensor attachment lug
13	200017440	Casing screw
45	300019421	Top black casing
46	89555505	Cover Ø 112 with seal + screws
47	89705511	Seal kit 7 mm + retainer ring
48	89708901	Complete anode Ø 33 length 230
49	94974527	Nylon brace
50	95014035	Seal ø 35 x 8.5 x 2
51	97860646	Adjustable foot M10 x 35
52	200007111	Complete lateral trap ø 170
53	95013141	Sheet gasket Ø 170x117x3
54	89608950	Complete anode Ø 33 length 420
55	200015439	Complete side cover

■ BL 500

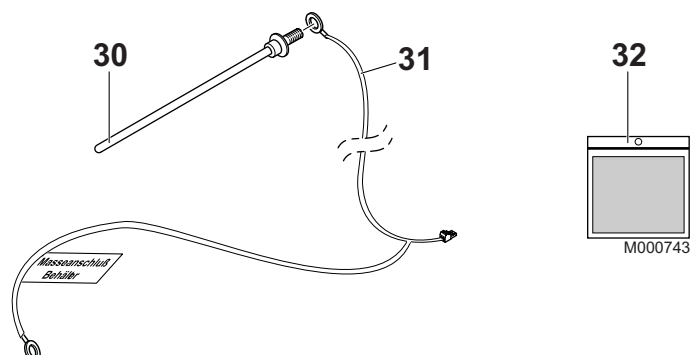


M001646-F

Markers	Reference	Description
11	300019423	Casing ferrule
12	95365009	Sensor attachment lug
13	200017440	Casing screw
60	300019421	Top black casing
61	200007273	Cover Ø 112 with seal + screws
62	89705511	Seal kit 7 mm + retainer ring
63	89628562	Complete anode Ø 33 length 450
64	94974527	Nylon brace
65	95014035	Seal ø 35 x 8.5 x 2
66	97860646	Adjustable foot M10 x 35
67	200007112	Side cover Ø 170 with anode + seal
68	95013141	Sheet gasket Ø 170x117x3
69	200015439	Complete side cover

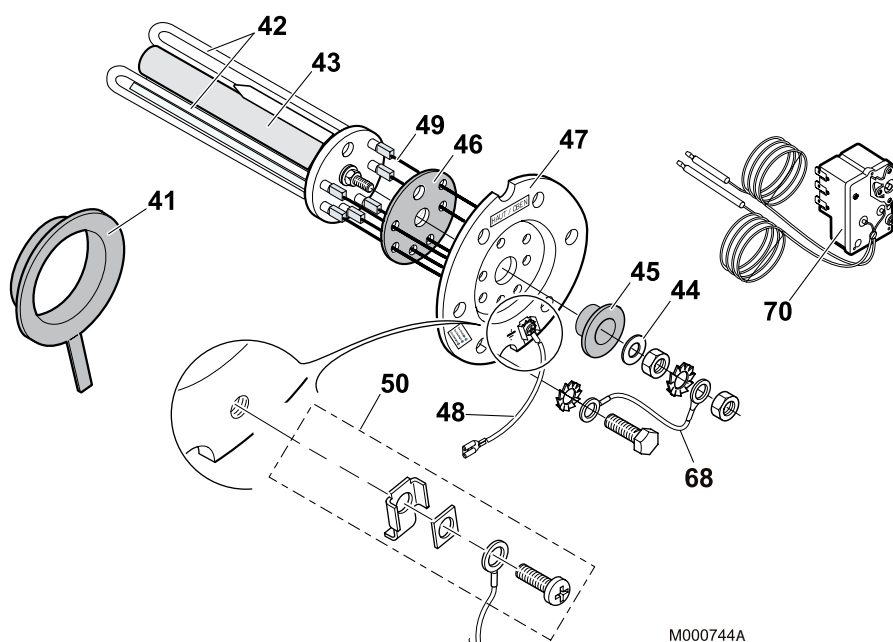
7.2.2. Options

■ Titanium anode - Package EC 414



Markers	Reference	Description
30	200000093	Titanium anode
31	88014964	Wiring
32	200007959	Screw bag

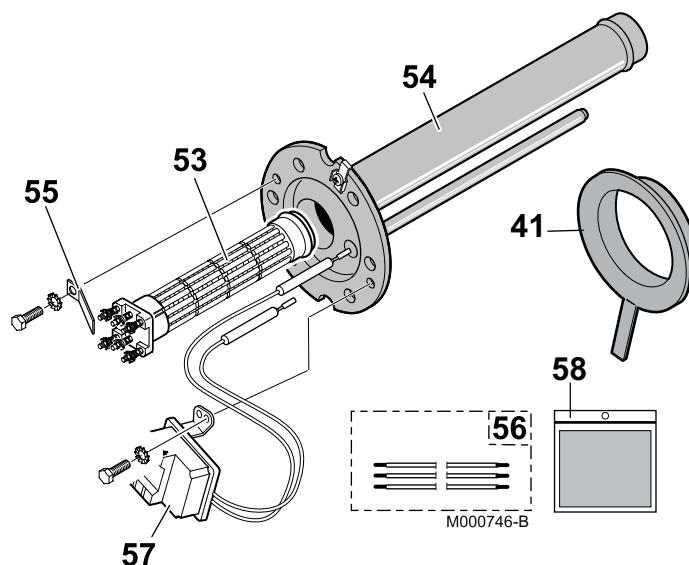
■ 2.2 kW heating element - Package EC 410 - Ø 82



Markers	Reference	Description
41	95013133	Lip gasket Ø 82
42	200008223	Heating element 2200 W
43	89625506	Magnesium anode Ø 40 - Length 410
44	95014035	Seal ø 25 x 8.5 x 2
45	94974527	Nylon brace
46	89658553	Complete dielectric spacer

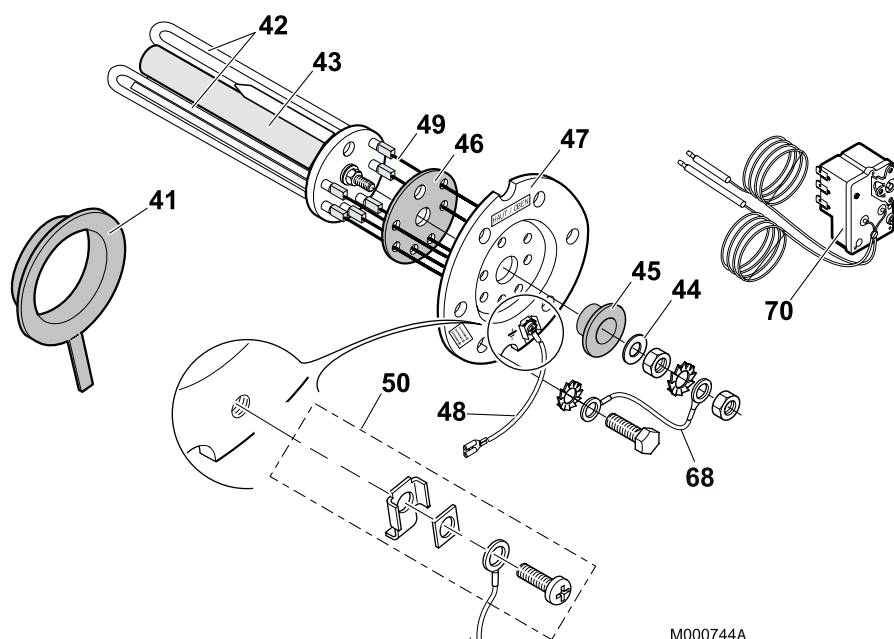
Markers	Reference	Description
47	200008224	Clamping flange Holes, diameter 82
48	89624900	Earth wire
49	89624901	Resistance cables
50	89625507	Earthing
68	89604901	Earth wire
70	95363327	Thermostat

■ 2.4 kW heating element - Package EC 411 - Ø 82



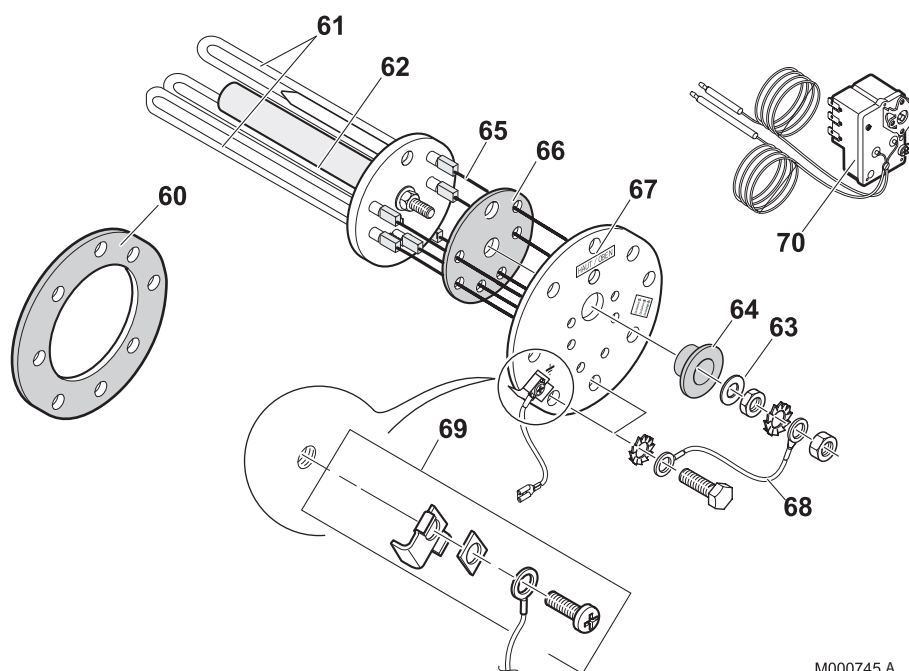
Markers	Reference	Description
41	95013133	Lip gasket Ø 82
53	97863579	Heating element 2400 W - Three-phase
54	97862390	Heating body
55	97866635	Fastening plate
56	200006681	Power supply wires (x3)
57	95363327	Thermostat
58	200011080	Black wire (x3)

■ 3.3 kW heating element - Package EC 412 - Ø 82



Markers	Reference	Description
41	95013133	Lip gasket Ø 82
42	200008225	Heating element 3300 W
43	89625506	Magnesium anode Ø 40 - Length 410
44	95014035	Seal ø 25 x 8.5 x 2
45	94974527	Nylon brace
46	89658553	Complete dielectric spacer
47	200008224	Clamping flange Holes, diameter 82
48	89624900	Earth wire
49	89624901	Resistance cables
50	89625507	Earthing
68	89604901	Earth wire
70	95363327	Thermostat

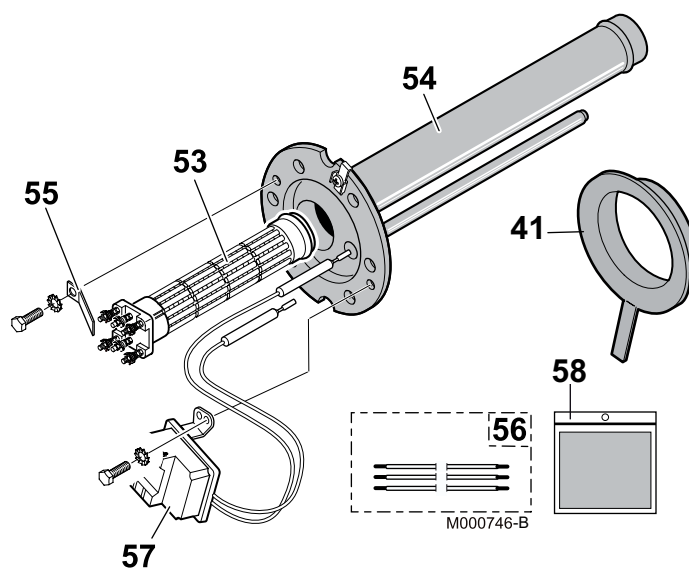
■ 4.5 kW heating element - Package EC 413 - Ø 82



M000745 A

Markers	Reference	Description
60	95013141	Sheet gasket Ø 170
61	200008220	Heating element 4500 W
62	200007580	Complete Anode
63	95014035	Seal ø 25 x 8.5 x 2
64	94974527	Nylon brace
65	89624902	Resistance cables
66	89658560	Complete dielectric spacer
67	200008221	Clamping flange Holes, diameter 82
68	89604901	Earth wire
69	89625507	Earthing
70	95363327	Thermostat

■ 3 kW heating element - Package EG 88



Markers	Reference	Description
41	95013133	Lip gasket Ø 82
53	97863562	Heating element 3000 W - Three-phase
54	97862759	Heating body
55	97866635	Fastening plate
56	200006681	Power supply wires (x3)
57	95363327	Thermostat
58	200011080	Black wire (x3)

8 Warranty

8.1 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.

Your fitter and our customer support network are at your disposal at all times.

8.2 Warranty terms



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.



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 relating to sales of consumer goods and other implementing rules.



Other countries: The following provisions are not exclusive of the buyer being able to benefit from the legal provisions applicable regarding hidden defects in the buyer's country.

Starting from the purchase date shown on the original fitter's invoice, your appliance has a contractual guarantee against any manufacturing defect.

The length of the guarantee is mentioned in the price catalogue.

The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified engineer).

In particular, the manufacturer shall not be held responsible for any damage, loss or injury caused by installations which do not comply with the following:

- ▶ applicable local laws and regulations,
- ▶ specific requirements relating to the installation, such as national and/or local regulations,
- ▶ the manufacturer's instructions, in particular those relating to the regular maintenance of the unit,

- ▶ the rules of the profession.

The warranty is limited to the exchange or repair of such parts as have been recognised to be faulty by our technical department and does not cover labour, travel and carriage costs.

The warranty shall not apply to the replacement or repair of parts damaged by normal wear and tear, negligence, repairs by unqualified parties, faulty or insufficient monitoring and maintenance, faulty power supply or the use of unsuitable fuel.

Sub-assemblies such as motors, pumps, electric valves etc. are guaranteed only if they have never been dismantled.

The legislation laid down by european directive 99/44/EEC, transposed by legislative decree No. 24 of 2 February 2002 published in O.J. No. 57 of 8 March 2002, continues to apply.

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01/03/2011



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De Dietrich

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