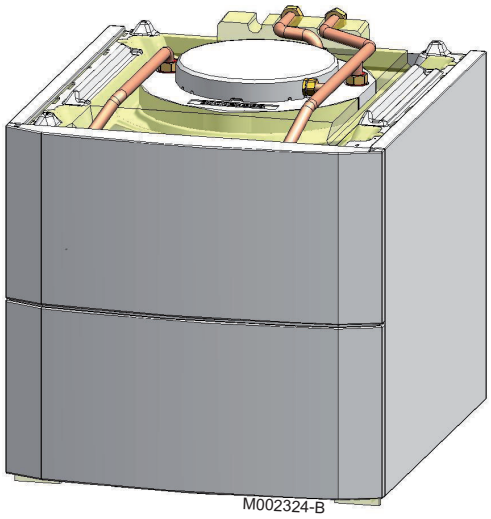
EN

Domestic hot water tank

100 HL



Installation, User and Service Manual

300026877-001-02

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1 Safety instructions and recommendations

1.1 Safety instructions

CAUTION

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

1.2 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.

1.3 Liabilities

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 commissioning 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 installer to explain your installation to you.
- Ensure the Appliance is serviced in accordance with the manufacturer’s instructions by a suitable qualified person.
- Keep the instruction manuals in good condition close to the appliance.

This appliance is not intended to be used by persons (including children) whose physcial, 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.

If the mains power lead is damaged it must be replaced by the original manufacturer, the manufacturer’s dealer or another competent person to prevent hazardous situations.

2 About this manual

2.1 Symbols used

2.1.1. Symbols used in the manual

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, highlight 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.

2.1.2. Symbols used on the equipment

Before installing and commissioning the device, read carefully the instruction manuals provided.

Dispose of the used products in an appropriate recovery and recycling structure.

2.2 Abbreviations

- **CFC**: Chlorofluorocarbon
- **DHW**: Domestic hot water
- **ICA**: Impressed current anode

3 Technical specifications

3.1 Homologations

3.1.1. 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

3.1.2. Directive 97/23/EC

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

3.1.3. Factory test

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

- Water tightness
- Air tightness

3.2 Technical specifications

3.2.1. Characteristics of the DHW calorifier

DHW tank 100HL		
Primary circuit (Heating water)		
Maximum operating temperature	°C	95
Maximum operating pressure	bar (MPa)	3 (0.3)
Secondary circuit (domestic water)		
Maximum operating temperature	°C	95
Maximum operating pressure	bar (MPa)	10 (1.0)
Water content	l	100
Weight		
Shipping weight (Foam coated domestic hot water tank)	kg	55

Performances related to the boiler type		Gas fired floor-standing condensing boiler (1)			
		10/15 kW	15 kW	25 kW	35 kW
Power exchanged	kW	15	15	28	32
Flow per hour (ΔT = 35°C)(2)	l/h	370	370	690	790
Specific flow (ΔT = 30°C)(3)	l/min	21	21	25.5	28
Draw-off capacity(3)	l/10 mm	210	210	255	280
Q_p: Primary flow rate	m^3/h	0.45	0.45	0.80	1.00

(1) Depending on the country in which the boiler is installed
(2) Domestic cold water inlet: 10 °C - Domestic hot water outlet: 45 °C - Primary circuit (heating water): 80 °C
(3) Domestic cold water inlet: 10 °C - Domestic hot water outlet: 40 °C - Primary circuit (heating water): 80 °C - Calorifier temperature: 60 °C

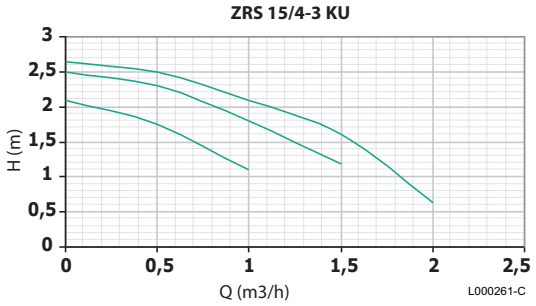
Performances related to the boiler type		Floor-standing condensing oil boiler (1)		
		18 kW	24 kW	30 kW
Power exchanged	kW	18	24	30
Flow per hour (ΔT = 35°C)(2)	l/h	440	590	740
Specific flow (ΔT = 30°C)(3)	l/min	21	24	26
Draw-off capacity(3)	l/10 mm	210	240	260
Q_p: Primary flow rate to reach the declared output of the primary heater	m^3/h	1.1	1.1	1.3

(1) Depending on the country in which the boiler is installed
(2) Domestic cold water inlet: 10 °C - Domestic hot water outlet: 45 °C - Primary circuit (heating water): 80 °C
(3) Domestic cold water inlet: 10 °C - Domestic hot water outlet: 40 °C - Primary circuit (heating water): 80 °C - Calorifier temperature: 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

3.2.3. Domestic hot water circulating pump



H Manometric height

Q Water flow

4 Technical description

4.1 General description

The 100 HL domestic hot water tank is delivered ready for connection to a boiler:

- AGC 10/15 - AGC 15 - AGC 25 - AGC 35
- AGC 35 BE
- GSCR 15 - GSCR 25 - GSCR 35
- CALORA TOWER GAS 25S EX
- CALORA TOWER GAS 35S
- CALORA TOWER GAS 15S DE - CALORA TOWER GAS 25S DE - CALORA TOWER GAS 35S DE
- CALORA TOWER GAS 25S BE - CALORA TOWER GAS 35S BE
- CALORA TOWER OIL 18 - CALORA TOWER OIL 24 - CALORA TOWER OIL 30
- CALORA TOWER OIL 18 LS - CALORA TOWER OIL 24 LS - CALORA TOWER OIL 30 LS

Main parts:

- The tank is made of high quality steel and is lined with food safety quality enamel vitrified at 850°C, which protects the tank from corrosion.
- The tank is protected against corrosion by an impressed current titanium anode (Titan Active System ®).
- The heat exchanger with plates is a device that allows water/water exchanges.
- The appliance is insulated by CFC-free polyurethane foam, which reduces heat losses to a minimum.
- The outside casing is made of painted steel sheeting.

5 Installation

5.1 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.

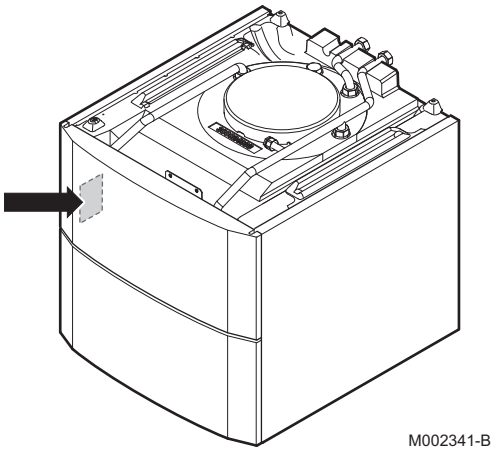
5.2 Package list

5.2.1. Standard delivery

The delivery includes:

- Complete calorifier
- Domestic hot water sensor
- Impressed current anode cable
- Domestic hot water temperature sensor cable
- Domestic hot water temperature sensor
- Flow rate limiter diaphragm
- DHW tank installation, operating and service manual

5.3 Choice of the location



M002341-B

5.3.1. Type plate

The type plate must be accessible at all times.
The type plate identifies the product and provides the following information:

- DHW calorifier type
- Manufacturing date (Year - Week)
- Serial number.

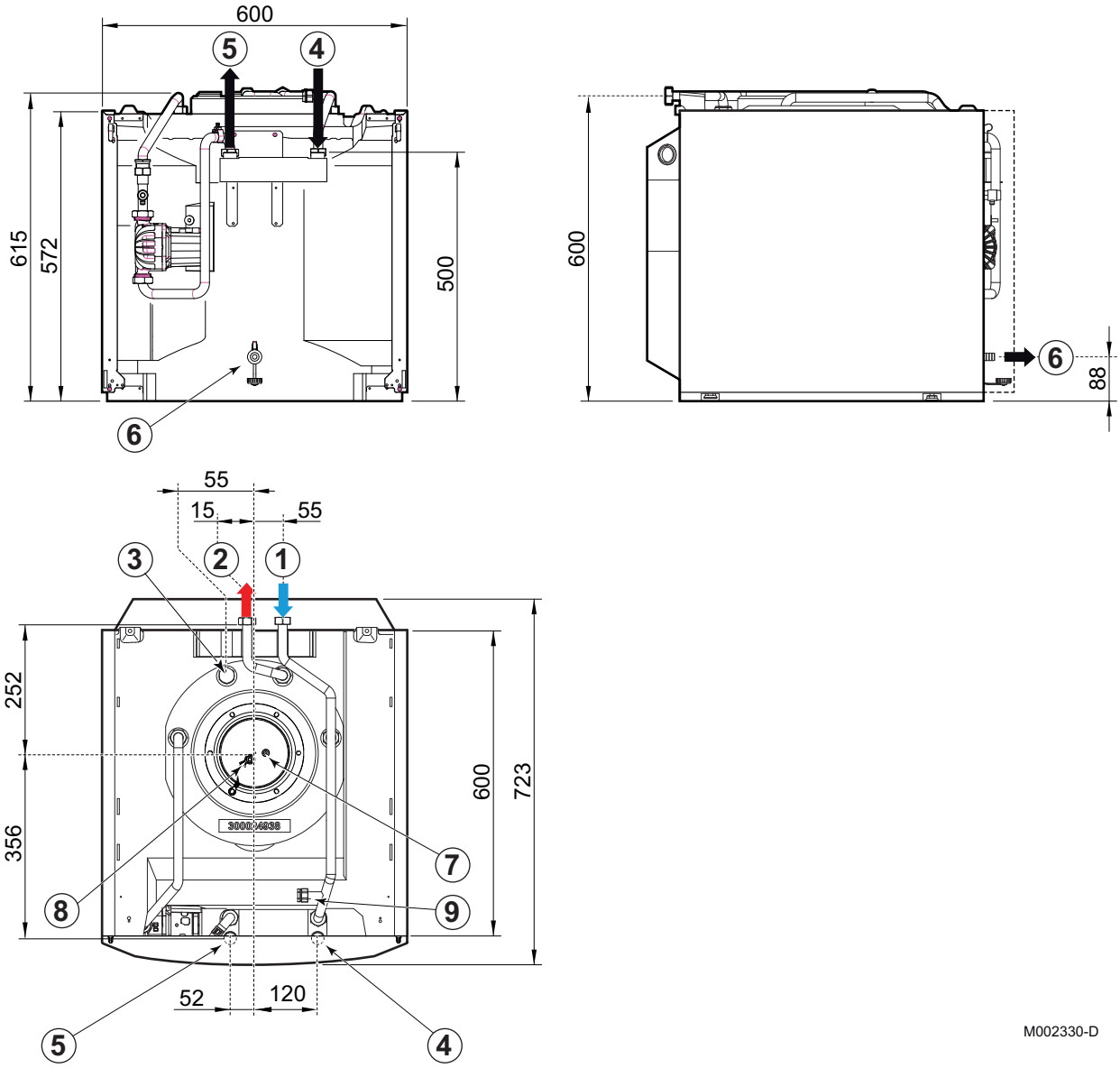
5.3.2. Positioning of the appliance

The DHW tank is installed under the boiler. To ascertain to space to be allowed around the appliance in order to facilitate access and maintenance, refer to the boiler's installation and service manual.

The installer must respect the following instructions:

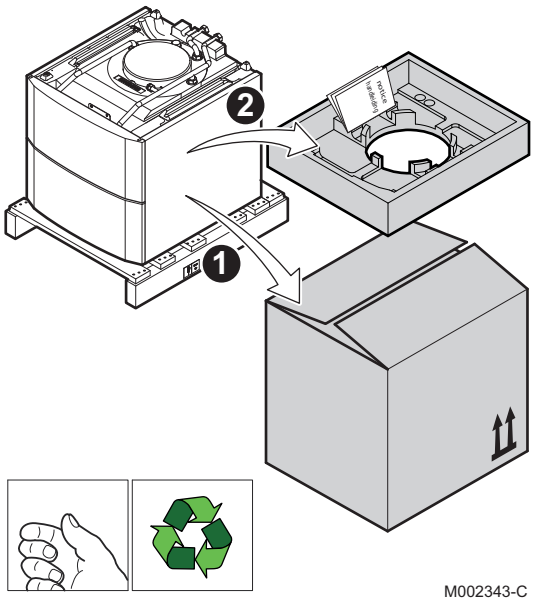
- Install the appliance in frost-free premises.
- Place the appliance on a base frame to facilitate cleaning of the premises.
- Install the appliance as close as possible to the drawing off points in order to minimise energy losses through the pipes.

5.3.3. Main dimensions



①	Domestic cold water inlet G 3/4"
②	Domestic hot water outlet GG 3/4"
③	Location for recirculation loop G 3/4" (Option)
④	Primary boiler return G 3/4
⑤	Primary boiler flow G 3/4
⑥	DHW drain valve 1/2"
⑦	Sensor tube for DHW sensor
⑧	Impressed current anode
⑨	Connection for DHW expansion vessel (Option)

5.4 Positioning the appliance

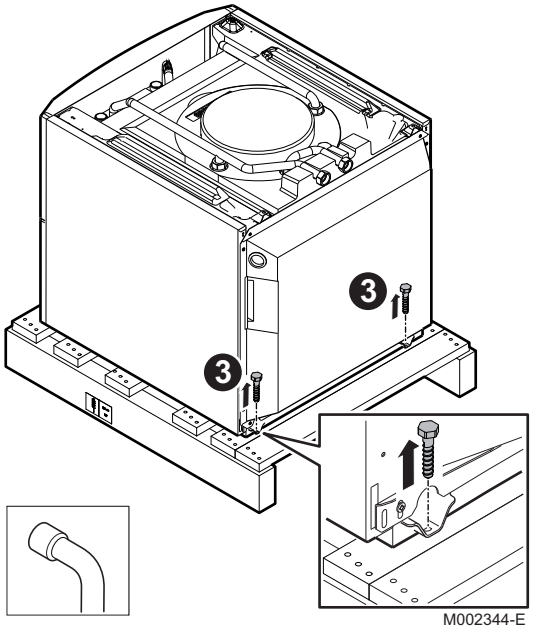


M002343-C

CAUTION

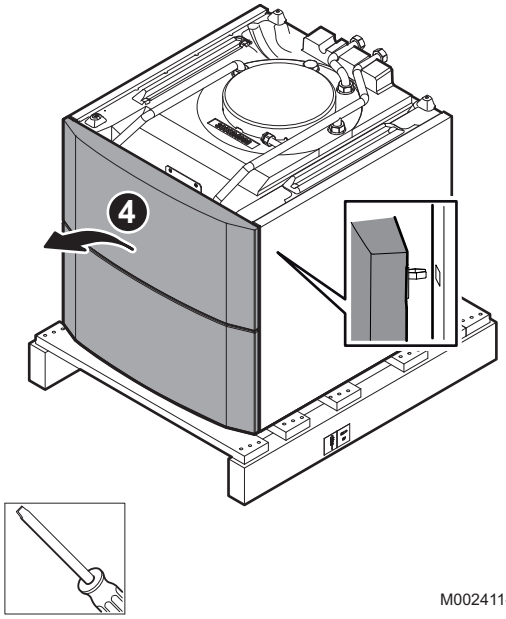
- Have 2 people available.
- Handle the appliance with gloves.

1. Remove the packaging from the DHW calorifier, leaving the calorifier on the pallet used for transport.
2. Remove the protective packaging.



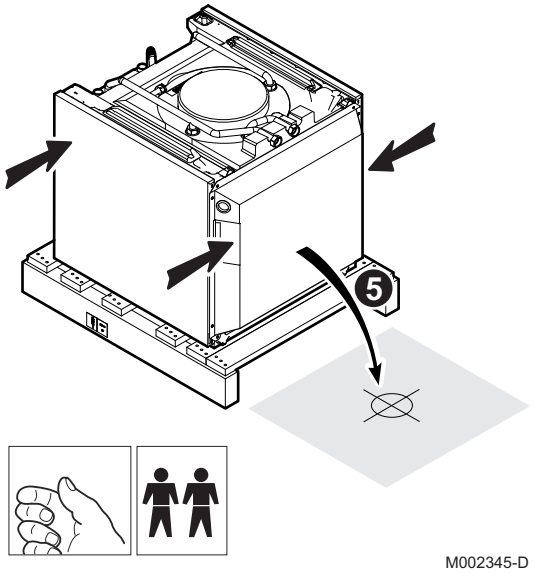
M002344-E

3. Remove the 2 screws securing the calorifier to the pallet.



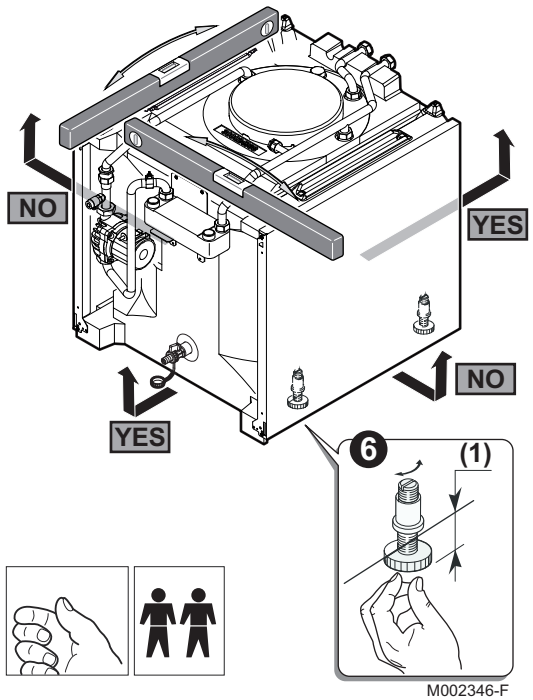
M002411-C

4. Remove the front panel by pulling firmly from both sides.



M002345-D

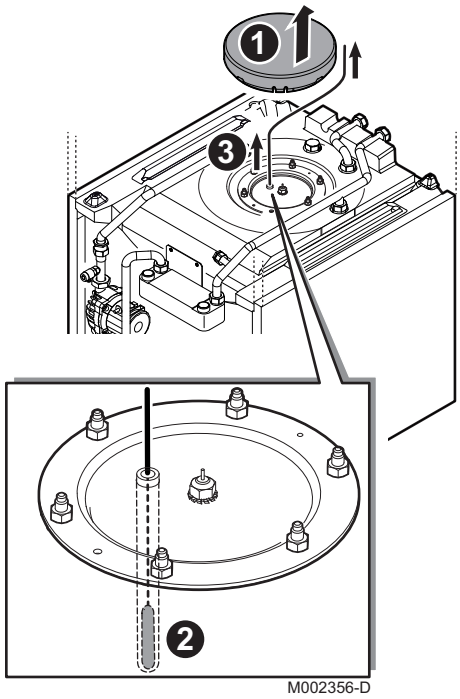
5. Lift the calorifier and position it in its operating location.



M002346-F

6. Level the DHW tank using the adjustable feet.
   (1) Adjustment range: 0 to 20 mm

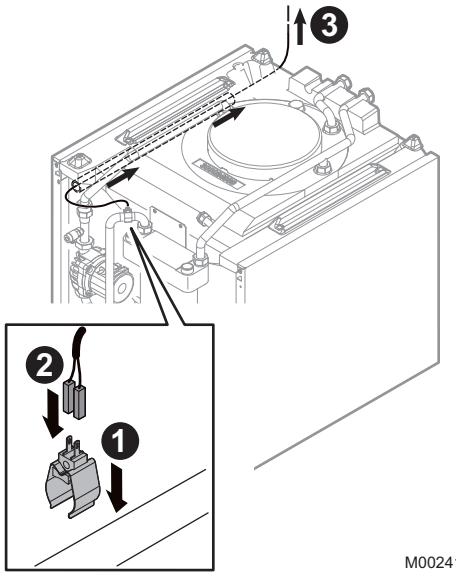
5.5 Fitting the DHW sensor



M002356-D

1. Remove the inspection trap insulation.
2. Put the DHW sensor in place.
3. Route the cable through the cable feed-through to the back of the DHW tank.

5.6 Installing the domestic hot water temperature sensor - Cable routing



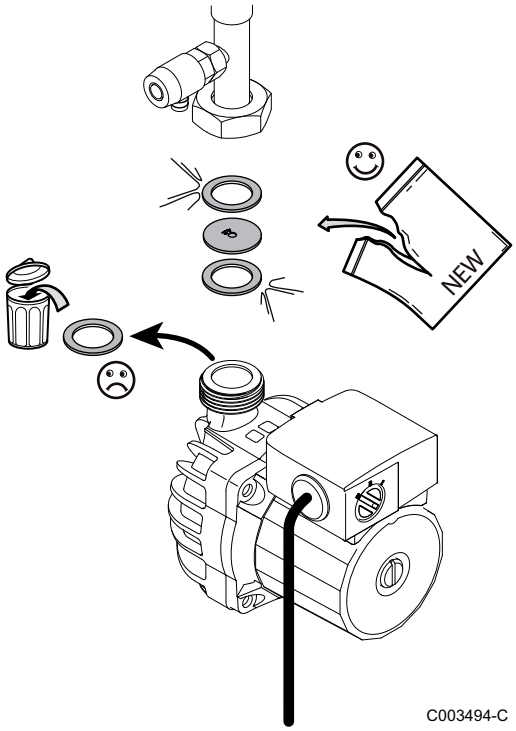
M002413-F

1. Clip the domestic hot water temperature sensor on to the plate exchanger outlet. (The domestic hot water temperature sensor can be found in the instruction pack.)
2. Fit the connectors for the domestic hot water temperature sensor.
3. Route the cable through the cable feed-through to the back of the DHW tank.

5.7 Installing the domestic hot water flow rate limiter diaphragm

Boiler type	Output (kW)	Diaphragm
Floor-standing condensing gas boiler	10/15	ON
	15	ON
	25	OFF
	35	OFF

Boiler type	Output (kW)	Diaphragm
Floor-standing condensing oil boiler	18	ON
	24	OFF
	30	OFF



1. Unscrew the nut 1".
2. Remove the sheet gasket. Discard the sheet gasket.
3. Insert the gasket + diaphragm + gasket unit between the pipe and the heating pump.
4. Retighten the nut.
5. Check the watertightness of the water connections.
6. Check the domestic hot water flow rate setting.

5.8 Hydraulic connections

5.8.1. Connecting the primary boiler circuit

Refer to the connecting kit manual.

5.8.2. Hydraulic connection of the secondary drinking water circuit

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

The tanks inside the domestic hot water tanks can run at a maximum operating pressure of 10 bar (1 MPa). The recommended operating pressure is under 7 bar (0.7 MPs).

■ 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 compliance with the safety rules, fit a safety valve to the domestic cold water tank inlet.

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

All countries except Germany: 7 bar safety valve (0.7 MPa).
Germany: 10 bar safety valve (1.0 MPa) maximum.

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

■ Size

- The diameter of the safety unit and its connection to the calorifer must be at least equal to the diameter of the domestic cold water inlet on the calorifer.
- There must be no cut-off element between the valve or the safety unit and the domestic hot water calorifer.
- The outlet pipe in the valve or safety assembly must not be blocked.

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

- 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 cross section of the discharge pipe from the safety unit must be at least equal to the cross section of the opening of the safety unit outlet.

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 calorifer to avoid draining the tank during servicing.
- Install a drainage valve at the lowest point on the calorifer.

■ 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 calorifer and its components without draining the entire installation.

These valves are also used to isolate the calorifer 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.

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.

- In regions where the water is very hard (Th > 20°F), we recommend fitting a softener. Water hardness must always be between 12°F and 20°F 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 is regularly inspected and maintained.

■ Pressure reducer

If the mains pressure exceeds 80% of the calibration of the valve or safety unit (e.g. 5,5 bar (0,55 MPa) for a safety unit calibrated to 7 bar (0,7 MPa)), a pressure reducer must be installed 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.

■ Measures to take to prevent hot water flow return

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

5.9 Electrical connections

5.9.1. Recommendations

WARNING

- Only qualified professionals may carry out electrical connections, always with the power off.
- Earth the appliance before making any electrical connections.

Make the electrical connections of the appliance according to:

- The instructions of the prevailing standards,
- The instructions on the circuit diagrams provided with the appliance,
- The manufacturer’s instructions.

Belgium: The earthing must comply with the RGIE standard.

Germany: The earth connection shall comply with standard VDE 0100.

France: The earth connection shall comply with standard NFC 15-100.

Other countries: The earthing shall comply with local standards.

CAUTION

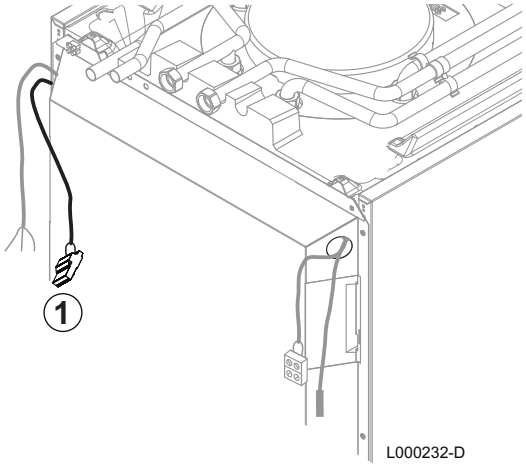
- Separate the sensor cables from the 230/400 V circuit cables.
- The installation must be fitted with a main switch.

5.9.2. Connecting the domestic hot water sensor

Connect the DHW sensor to the corresponding terminal block on the boiler (Terminal S.ECS).

See chapter: "Terminal block", page 22.

5.9.3. Connecting the DHW heating pump



Connect the DHW heating pump to the corresponding terminal block on the boiler (Terminal X4).

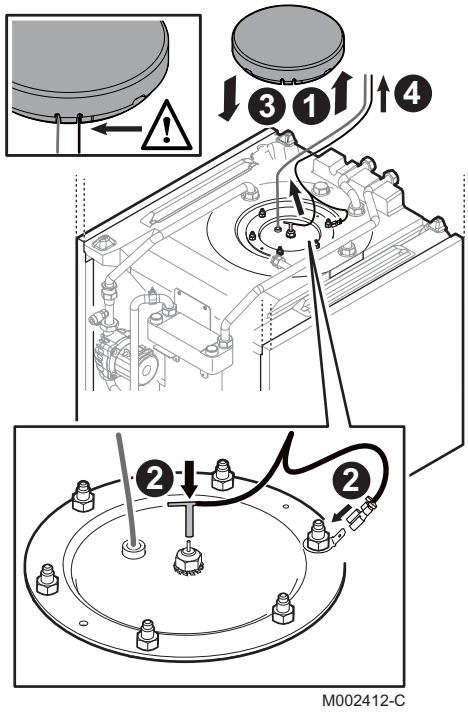
See chapter: "Terminal block", page 22

5.9.4. Connecting the plate exchanger outlet

Connect the domestic hot water temperature sensor cable to the corresponding terminal block on the boiler (Terminal X20).

See chapter: "Terminal block", page 22

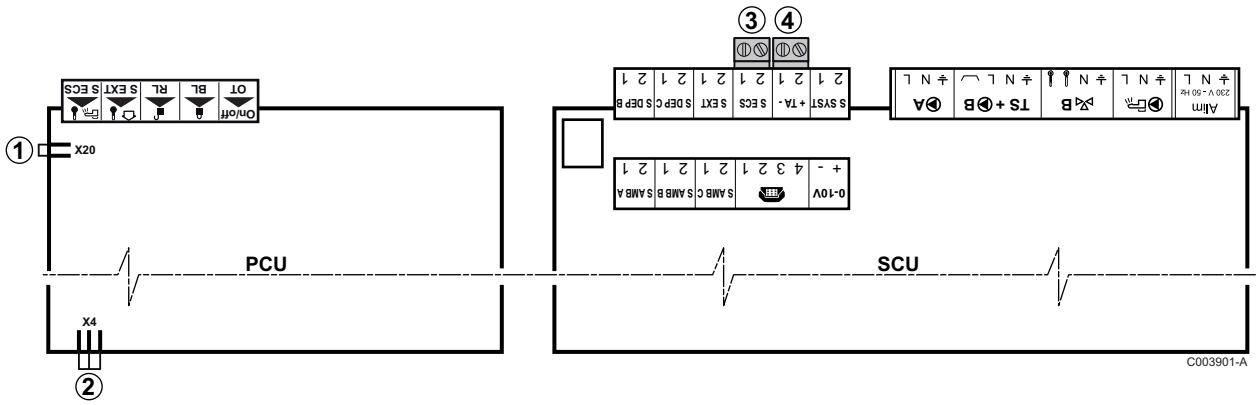
5.9.5. Connecting the impressed current anode



1. Remove the inspection trap insulation.
2. Connect the connectors on the titanium anode cable.
3. Put the inspection trap insulation back in place, feeding the cables into the notches.
4. Route the cable through the cable feed-through to the back of the DHW tank.
5. Connect the titanium anode cable to the corresponding terminal block on the boiler (Terminal TA-).
   See chapter: "Terminal block", page 22

5.9.6. Terminal block

■ Gas fired floor-standing condensing boiler (Only on boilers fitted with a SCU board)



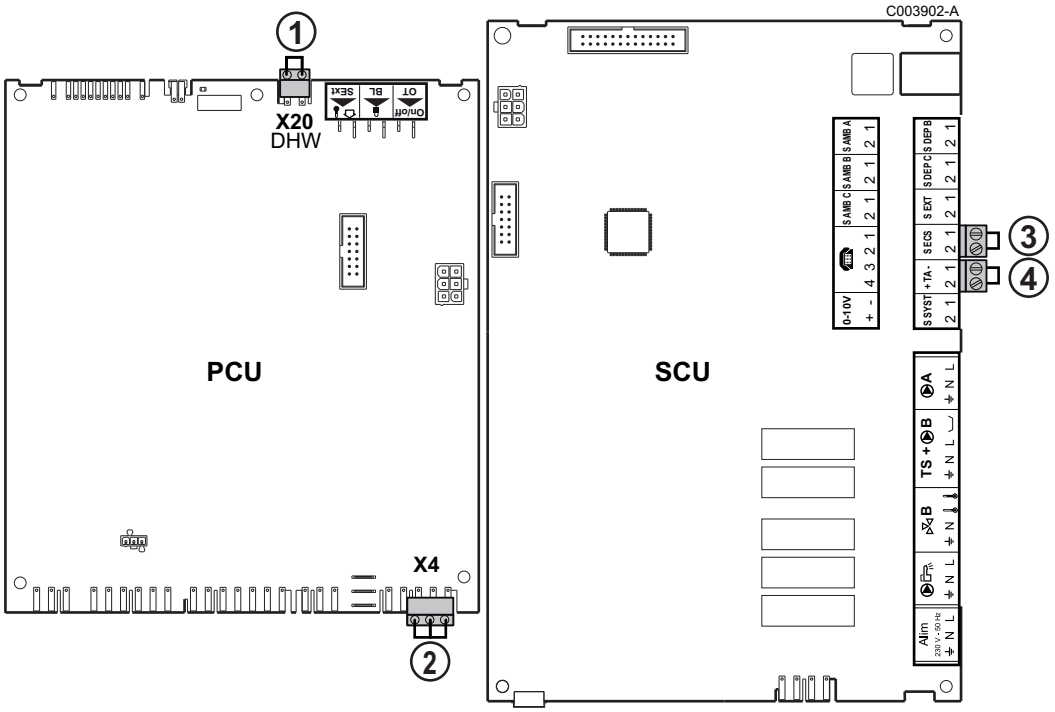
① **X20**: Connect the plate exchanger sensor.

② **X4**: Connect the DHW pump.

③ **S.ECS**: Connect the DHW sensor.

④ **TA-**: Connect the DHW tank anode.

■ Floor-standing condensing oil boiler (Only on boilers fitted with a SCU board)



① **X20**: Connect the plate exchanger sensor.

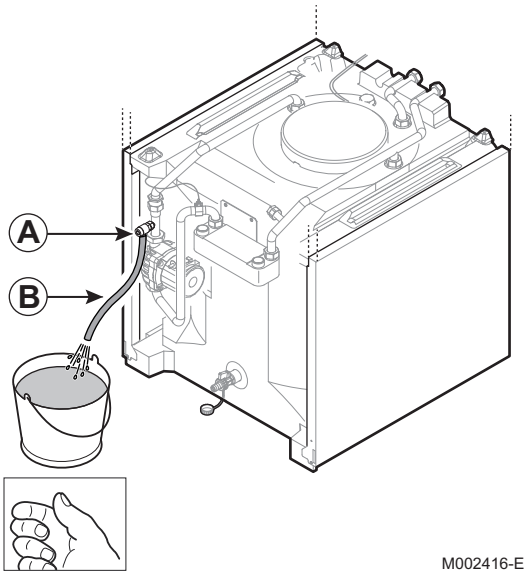
② **X4**: Connect the DHW pump.

③ **S.ECS**: Connect the DHW sensor.

④ **TA-**: Connect the DHW tank anode.

5.10 Filling the system

5.10.1. Filling the domestic hot water circuit



A Bleeding tap

B Flexible discharge pipe

1. Rinse the domestic circuit.
2. Open a hot water tap.
3. Completely fill the domestic hot water calorifer 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. Carefully vent all of the DHW pipes by repeating steps 2 to 4 for each hot water tap.
   Note:
   Venting the domestic hot water calorifer and the mains network helps to prevent noises and banging caused by trapped air moving through 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. This phenomenon is perfectly normal and must in no circumstances be hindered.

5.10.2. Filling the primary boiler circuit

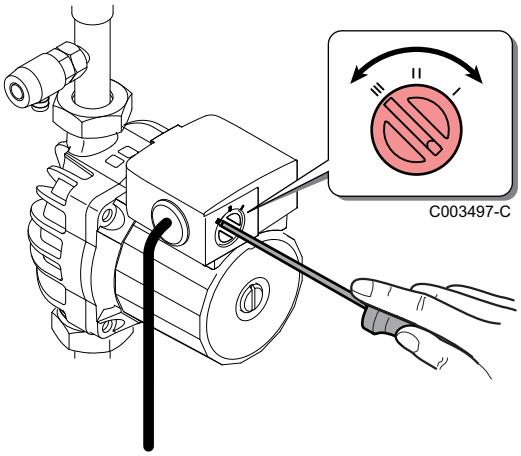
Carefully vent the exchanger circuit in the domestic hot water tank.

Refer to the installation and maintenance instructions of the boiler

6 Commissioning

6.1 Check points before commissioning

6.1.1. Hydraulic circuits



■ **Secondary circuit (domestic water)**

Inspect all the connections in the system for leaks.

Setting the speed of the heating pump:

Boiler type	Output (kW)	Set speed (3 positions)
Floor-standing condensing gas boiler	10/15	I
	15	I
	25	II
	35	III

Boiler type	Output (kW)	Set speed (3 positions)
Floor-standing condensing oil boiler	18	I
	24	I
	30	III

- Set the circulation speed using a flat screwdriver.

■ **Primary boiler circuit**

Inspect all the connections in the system for leaks.
Refer to the connecting kit manual.

6.1.2. Electrical connection

- Check that the sensors are correctly fitted and connected.
- Check the electrical connections, particularly the earth.

6.2 Commissioning procedure

CAUTION

Initial commissioning must be done by a qualified professional.

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.

Vent the DHW circuit by opening the venting valve located above the DHW pump.

7 Checking and maintenance

7.1 General instructions

CAUTION

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

7.2 Safety valve or safety unit

The safety valve or unit on the domestic cold water inlet must be operated at least **once a month** to ensure proper operating and to prevent from any overpressure which may that may damage the domestic hot water calorifier.

WARNING

Failure to abide by this maintenance rule may damage the domestic hot water calorifier and void its warranty.

7.3 Cleaning the casing material

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

7.4 Impressed current anode

No maintenance operations are required on an impressed current anode.

CAUTION

The boiler control panel must be switched on to ensure that the impressed current anode operates.

Failure to abide by this maintenance rule may damage the domestic hot water calorifier and void its warranty.

There is a green LED on the impressed current anode board:

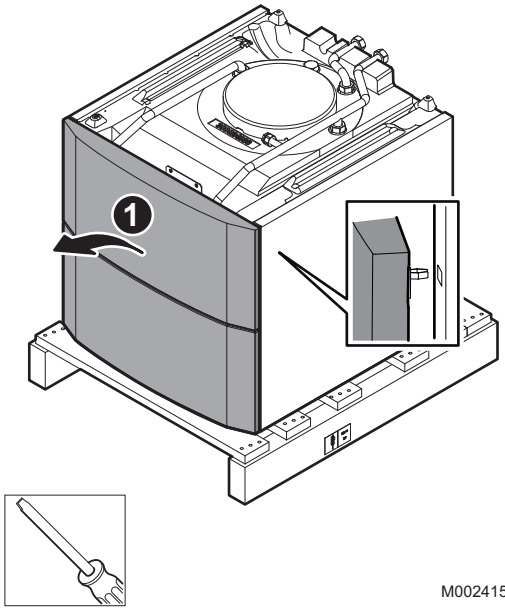
- The LED flashes once when the board is powered up.
- The LED is off during normal running.

If a fault is detected::

- The LED flashes. Check the connections to the board and the tank.

▸ The LED is on and steady. Change the board.

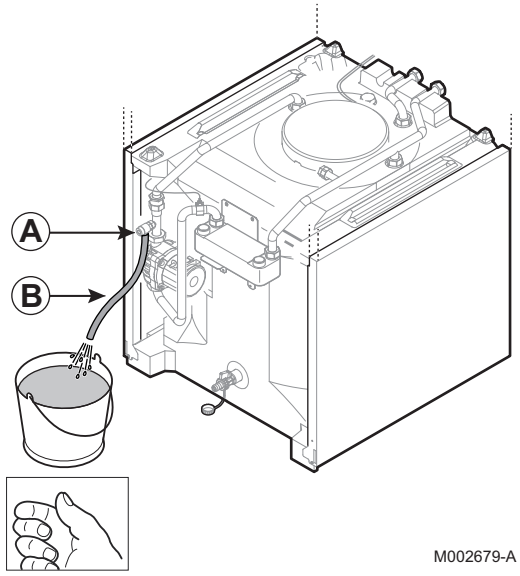
7.5 Cleaning the plate heat exchanger



M002415-C

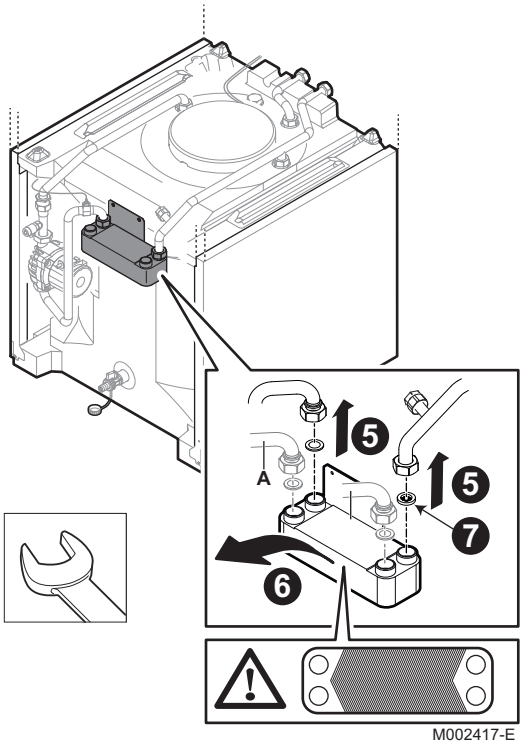
We recommend cleaning the plate exchanger annually in order to maintain optimal performance.

1. Remove the front panel by pulling firmly from both sides.



M002679-A

2. Turn off the domestic cold water inlet.
   Open the drainage valve (bottom of the DHW tank).
   Open the DHW vent above the DHW pump (A).
   Drain the plate exchanger on the boiler side
   ☞Refer to the installation and maintenance instructions of the boiler

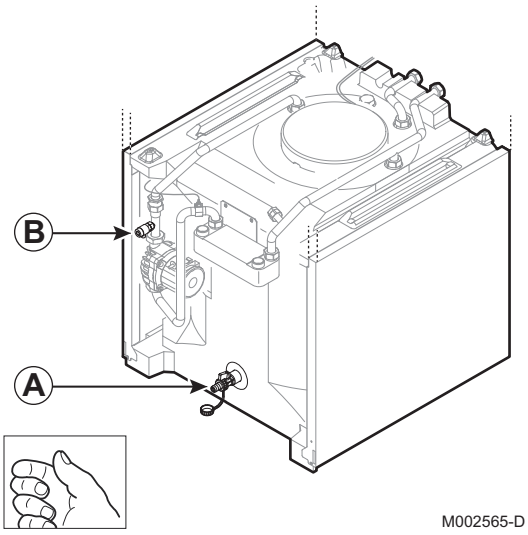


3. Remove the inlet and outlet pipes from the plate exchanger (A=Boiler side).
4. Dismantle the plate heat exchanger.
   Clean the plate exchanger with a descaling product (e.g. citric acid with a pH of approximately 3).
   Rinse with clean water.
5. Remove the 3/4" sieve. If necessary, clean or replace the sieve.

CAUTION

Follow the mounting direction for the plate exchanger.

7.6 Draining the installation



A Drain cock

B Bleeding tap

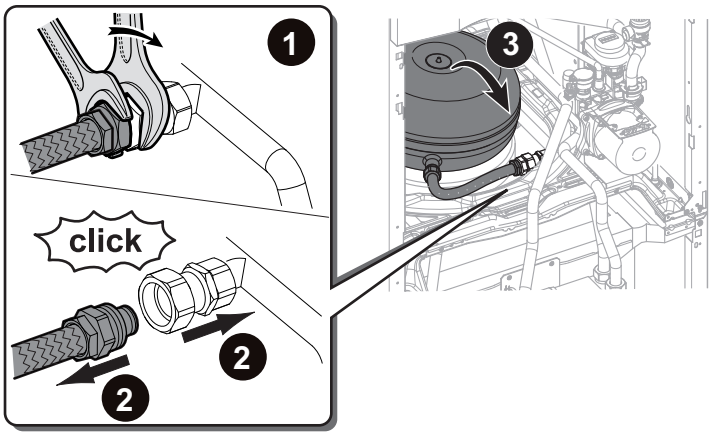
1. Turn off the domestic cold water inlet.
2. Drain the plate exchanger on the boiler side
   Refer to the installation and maintenance instructions of the boiler
3. Open the drainage valve (A).
4. When the water no longer overflows, open the venting valve to drain the water still in the plate exchanger and the pipes (B).
5. Open a hot water tap to completely drain the installation.

7.7 Specific maintenance operations

The DHW tank does not need to be drained to perform these operations.

Only concerns gas-fired floor-standing condensing boilers.

If the installation is fitted with a DHW expansion vessel, proceed as follows to disconnect it.



C003750-B

1. Unscrew the snap coupling.
2. Disconnect the two parts.
3. Proceed with the desired maintenance operation.
4. To re-assemble, proceed in reverse order.

7.8 Maintenance form

No.	Date	Checks made	Remarks	By	Signature

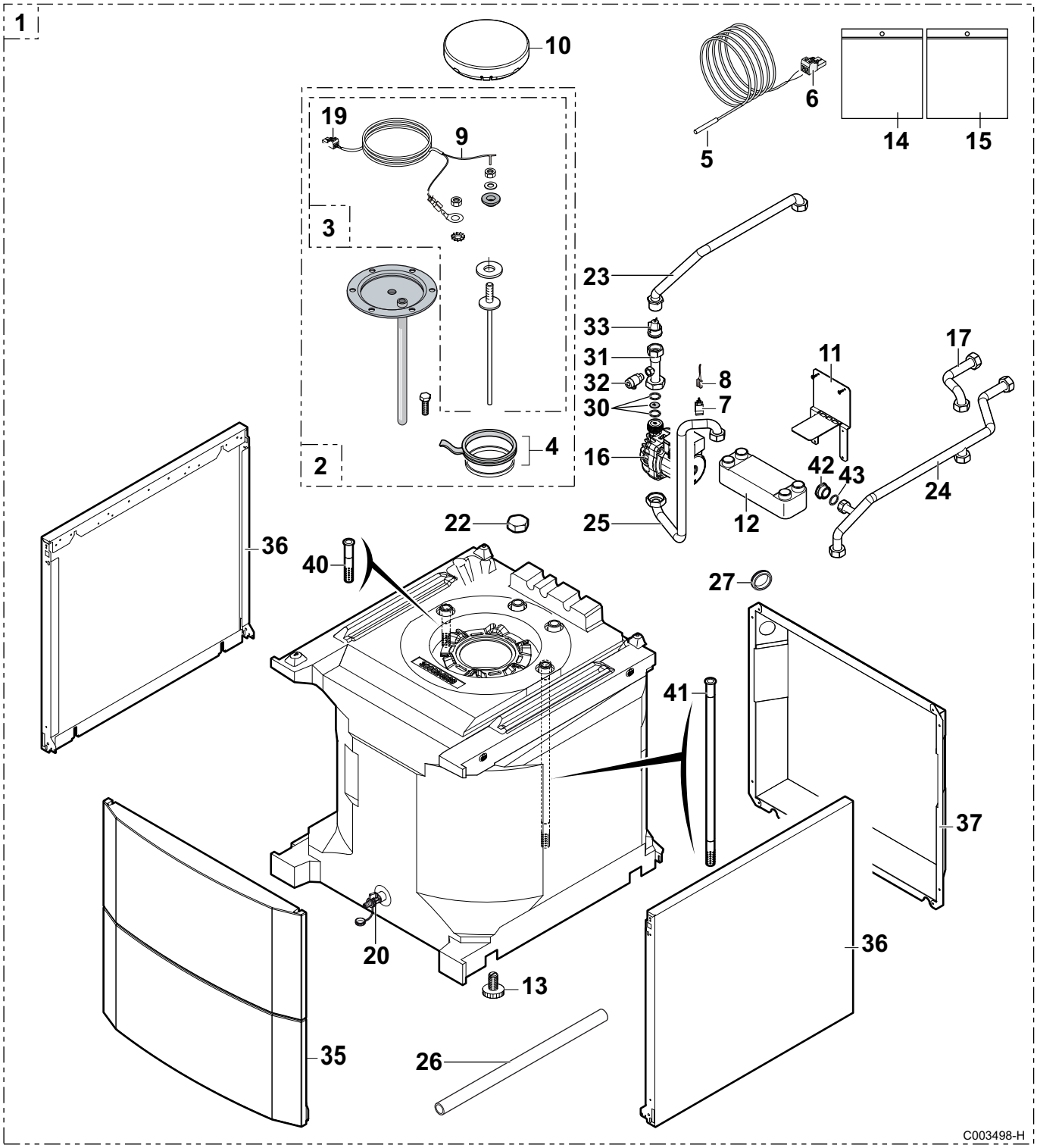
8 Spare parts

8.1 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.

8.2 Spare parts



Markers	Reference	Description
1	100016430	Foam coated domestic hot water tank 100HL
2	200019498	Enamelled stopper
3	200011817	Impressed current anode
4	89705511	Gasket 7 mm + Retainer ring 5 mm
5	95362447	KVT60 sensor - Length 2 m
6	300008957	2 PIN DHW probe connector
7	95362441	Temperature sensor

Markers	Reference	Description
8	300024887	Sensor cable
9	200011579	ACI anode cable - Length 2,5 m
10	300024943	Insulation, buffer tank
11	300024957	Sheet metal plate for fitting the exchanger / Regulation
12	300024956	Plate heat exchanger E6TH x 18 - G 3/4
13	300024451	Adjustable foot M8x45
14	200019651	DHW tank screw bag
15	200019652	DHW tank gasket bag
16	300024986	Circulator ZRS 15/4-3 KU
17	300025672	Domestic hot water flow pipe
19	300008956	2 pts ACI connector
20	94902073	Drain cock 1/2"
22	94950143	Cap G 3/4
23	300024958	Plate exchanger outlet pipe
24	300024960	Plate exchanger inlet pipe
25	300024961	Plate exchanger / heating pump pipe
26	300026291	Plastic pipe Diameter 22 mm
27	95320562	Grommet
30	200019882	Complete diaphragm Diameter 6.2 mm + Gaskets
31	300025671	Venting pipe
32	0292148	Drain cock 1/4"
33	200021528	Non-return valve
35	200019180	Front panel
36	300024461	Side panel
37	300024983	Rear panel
40	300025677	Plastic pipe Tap nozzle - Ø 18 / Length 103
41	300025679	Plastic pipe Tap nozzle - Ø 18 / Length 490
42	115821	Brass plug G 1/2"
43	95013059	Green seal 18.5x12x2

9 Warranty

9.1 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 installer and our customer support network are at your disposal at all times.

9.2 Warranty terms

France: The following provisions are not exlcusive 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 application of the warranty is subject to the terms and conditions of sale, delivery and warranty of the company marketing 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 relating to sales of consumer goods and other implementing rules.

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

Starting from the purchase date shown on the original installer'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.

22/08/2014

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