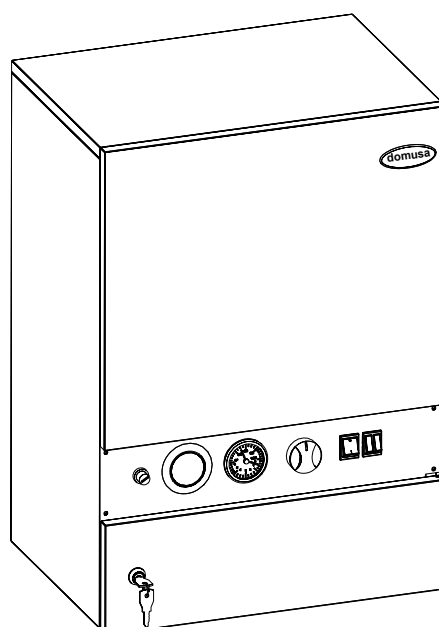
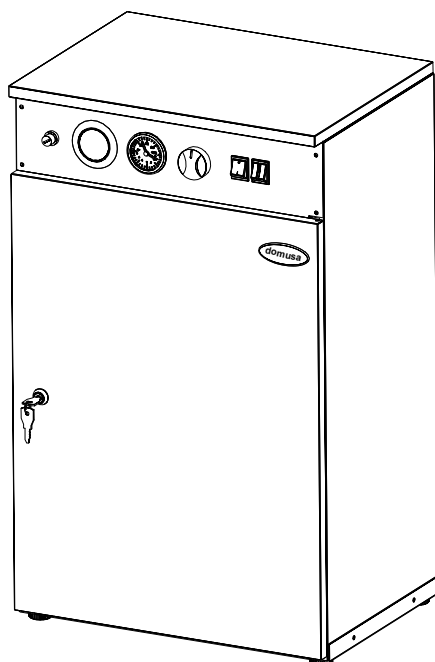


# INSTALLATION AND OPERATING INSTRUCTIONS

- HDEE
- HDEEM



**DOMUSA**  
T E K N I K

Thank you for choosing a DOMUSA TEKNIK electric boiler. From the range of **DOMUSA TEKNIK's** products you have chosen the HDEE model. With a suitable hydraulic installation, this boiler will provide the ideal level of comfort for your home.

This manual forms an essential part of the product and it must be given to the user. Read the warnings and recommendations in the manual carefully, as they contain important information on the safety, use and maintenance of the installation.

These boilers are to be installed by qualified personnel only, following the manufacturer's instructions.

Only **DOMUSA TEKNIK's** Authorised Technical Assistance Services are authorised to start up these boilers and carry out any maintenance operations.

The manufacturer will hold no liability in case of damage to people, animals or property caused by incorrect installation of these boilers.

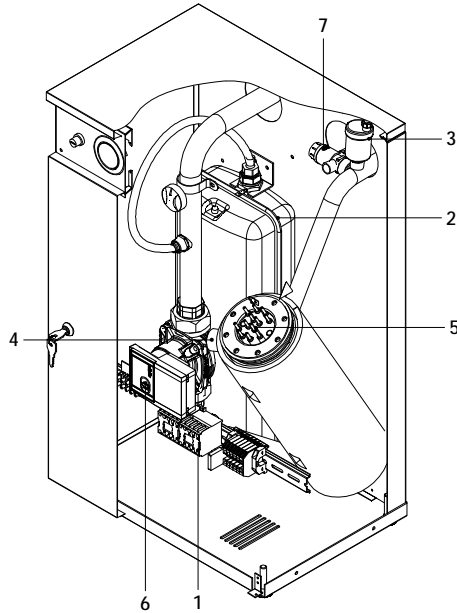
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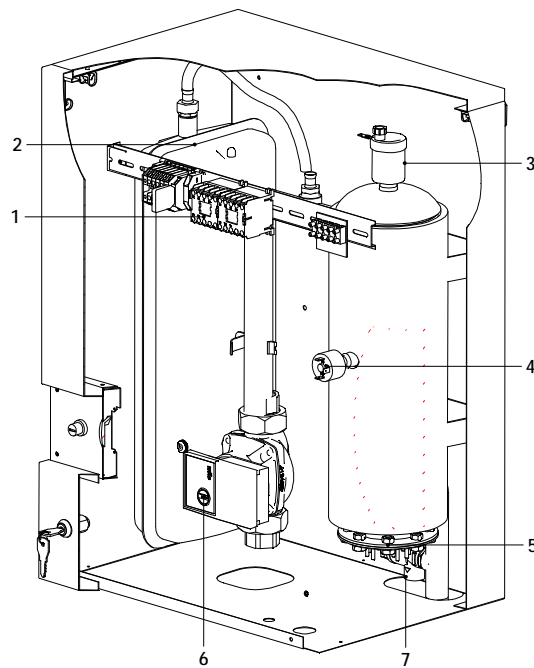
# HDEE / HDEEM

## 1 LIST OF COMPONENTS

### HDEE

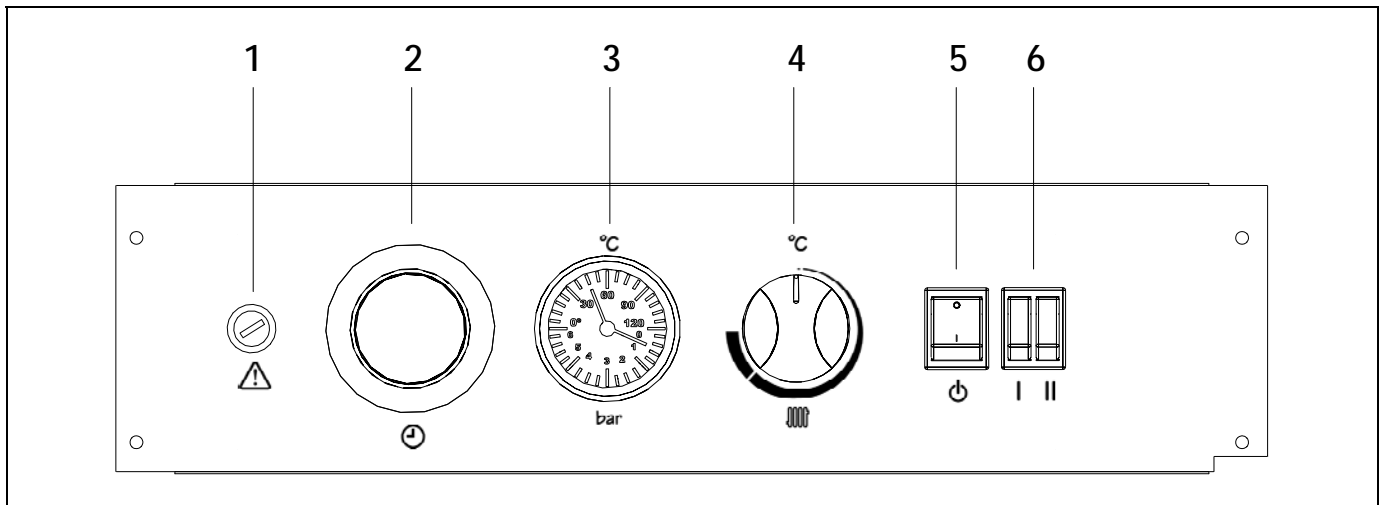


### HDEEM



- |                        |                           |
|------------------------|---------------------------|
| 1. Modular control.    | 5. Heating Element.       |
| 2. Expansion vessel.   | 6. Heating pump.          |
| 3. Automatic air vent. | 7. Pressure relief valve. |
| 4. Pressure switch.    |                           |

## 2 CONTROL COMPONENTS



### 1. Safety thermostat "Δ":

This is a cut-out mechanism to ensure the boiler temperature does not exceed 110 °C.

### 2. Timer (Optional) "⌚":

This is an optional element. It can time either weeks or days and it enables selection of the heating switch-on and switch-off cycles.

### 3. Thermohydrometer:

This indicates the temperature and pressure of the heating circuit.

### 4. Boiler control thermostat:

Allows to select the desired boiler set point temperature to be selected, deactivating the element when the set point temperature is reached or keeping it functioning until this is the case.

### 5. Main switch "⏻":

This is for switching the boiler on and off.

### 6. Power selectors "I", "II":

These enable the desired heating power stage to be selected. Each stage corresponds to half power. Maximum power is obtained when both switches are on.

## 3 IMPORTANT INFORMATION

### 3.1 Who this booklet is for

This instruction booklet is for use by the boiler user and installer.

### 3.2 Recommendations

The installation must be made by a qualified technician.

The installation must be made in accordance with applicable law.

Failure to comply with these operating and control procedure instructions may give rise to personal injury and risk of environmental pollution.

It is recommended to have a qualified technician carry out yearly maintenance of the boiler.

In case of anomaly, please contact the installer.

Before carrying out boiler maintenance, it is essential to cut off the electricity supply.

Users must not access internal boiler components or control components.

### 3.3 Applicable legislation

It is essential to observe the laws in force regarding electric boiler installation.

### 3.4 Warnings

This manual forms an integral part of the appliance it refers to and must be given back to the user.

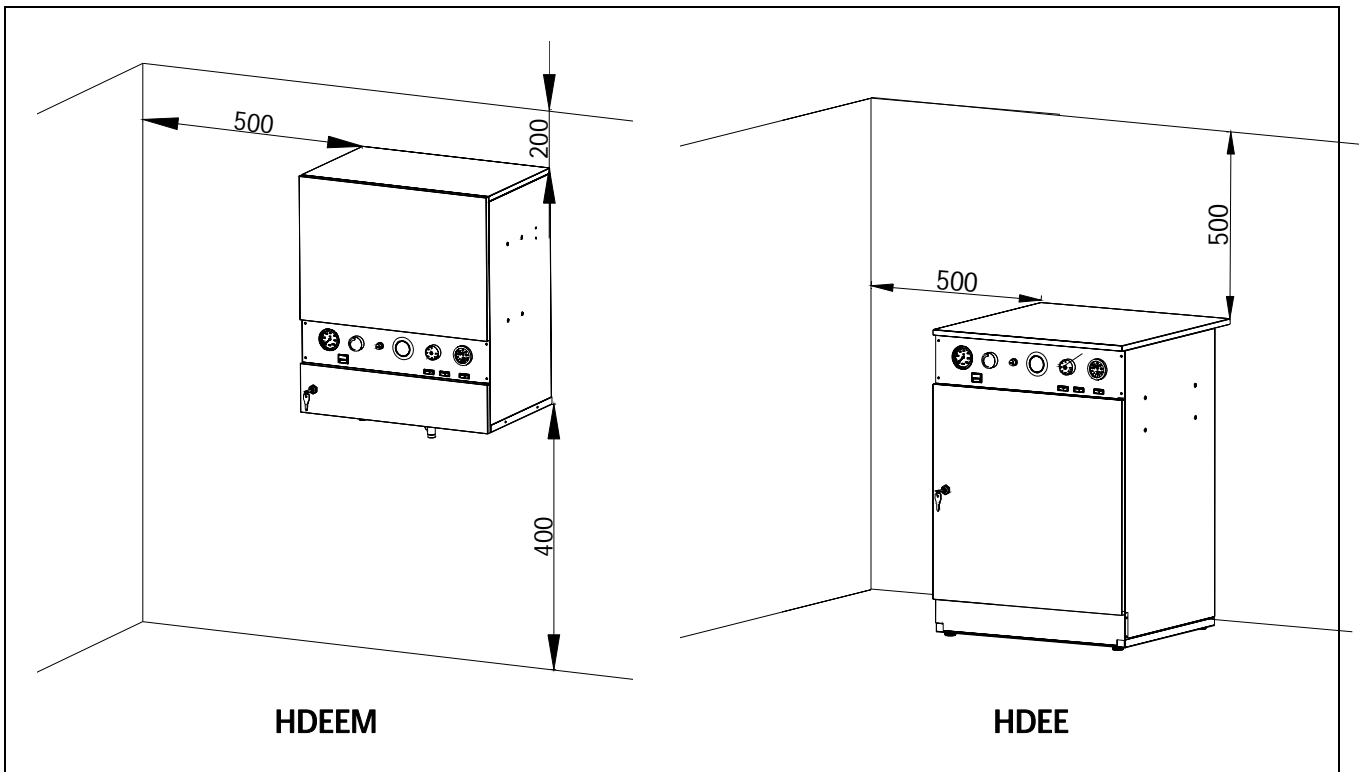
Boiler installation and maintenance must be carried out by qualified technicians, in accordance with applicable legislation.

DOMUSA TEKNIK shall hold no liability for any damages caused by incorrect installation or incorrect use of the appliance or accessories.

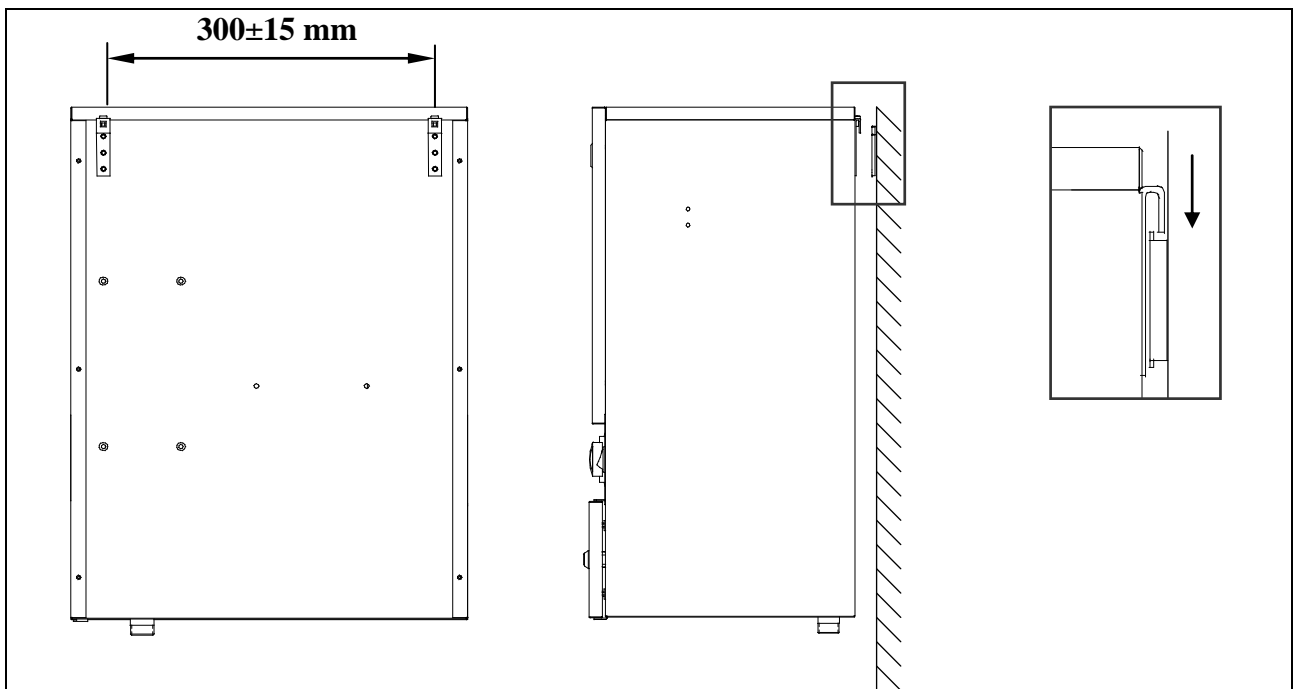
- **DOMUSA TEKNIK reserves the right to modify the technical characteristics and components of its products without prior notice.**
- **The availability of certain models and their accessories may vary according to the market.**

## 4 INSTALLATION INSTRUCTIONS

### Fitting measurements



### Wall mounting system (for HDEEM)



# HDEE / HDEEM

## 4.1 Hydraulic installation

Choose a location complying with the conditions required by applicable law.

If the boiler is located on a lower level than any of the heating water pipes, it is recommended to fit shut-off valves to the flow and return pipes, to avoid having to drain the installation when maintenance work is carried out on the boiler.

Before connecting the boiler hydraulically, thoroughly clean the pipes.

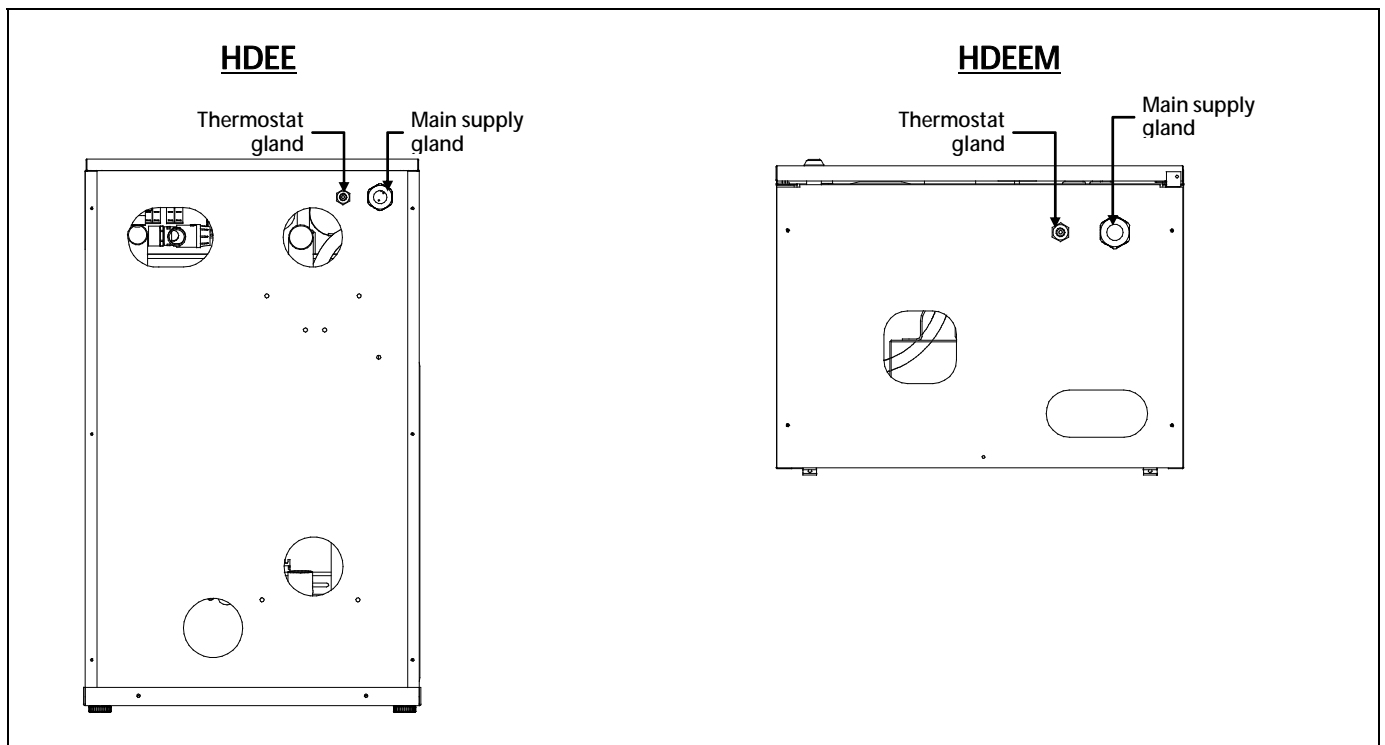
Remember to provide for a fill valve connected to the flow or return heating circuit.

## 4.2 Electrical installation

Ensure the voltage in the home is the same as that indicated for the boiler. Make the electrical connections in accordance with the electrical diagrams shown in this manual.

We recommend installing a main switch on the power lines enabling all supply phases to the boiler to be cut off. A neutral phase is required to connect the boiler at 400 V 3N~ .

The boiler must be installed by a qualified technician, observing the applicable legislation. It must be connected to a heating circuit or domestic hot water network in accordance with its features and power.





## 5 FIRST START-UP

### 5.1 Filling the installation

Use a filling valve to fill the installation slowly until the pressure shown on the thermohydrometer is between 1 - 1.5 bar.

### 5.2 Checking the circulating pump functioning

Unscrew the circulating pump cap so that the rotation shaft is visible. Connect the boiler main switch and check if the pump shaft is turning. Screw the cap back on.

If the shaft is not turning, switch off the boiler main switch and use a suitable screwdriver to turn the pump shaft in both directions to unblock it. Turn on the main switch again and check the shaft is turning. Screw the cap back on.

### 5.3 Bleed the air from the installation

Connect the boiler main switch and drain the air from the installation and the boiler using the air vent valves provided in the installation and on the boiler.

## 6 INSTALLATION DELIVERY

The installer will explain how the boiler functions to the user, making all necessary observations such as how to fill, bleed and drain the boiler.

### 6.1 Observations

If the boiler does not start up when you have checked that the power is reaching it, the installation is filled with water at the correct pressure, the circulating pump is turning and the boiler has not been cut out by the safety circuit breaker, turn off the main switch and contact the installer.

## 7 OPERATION

### 7.1 Power setting selection

The total power to the boiler may be reduced by half, using the half-power switches on the control panel. When both switches are connected, the boiler will function at maximum power.

### 7.2 Temperature selection

This is done using the control thermostat command on the control panel. Turn it clockwise for a higher temperature, or anticlockwise for a lower temperature. When the selected temperature is reached, it will automatically be kept constant by the thermostat.

To regulate the room temperature you will need to install a room thermostat. This thermostat switches off the boiler when the selected temperature is reached, and starts it up again when the temperature drops.

The boiler is pre-wired for connection of a room thermostat. To do this, remove the bridge from the connector block and connect the room thermostat.

# HDEE / HDEEM

## 8 FUNCTIONING WITH TIMER (OPTIONAL)

The boiler may optionally be supplied with a timer, which can be fitted to the main control panel. Both the boiler and the timer are equipped with a quick fixing system using the 12-way connector (X12) shown on the electrical diagram. The procedure for this is described in the installation and operating instructions enclosed with the timer.

## 9 SWITCHING OFF THE BOILER

To totally switch off the boiler, turn the main switch to "O".

## 10 BOILER MAINTENANCE

### 10.1 Safety device maintenance

Check the thermostats and safety devices are working correctly.

Check the heating circuit pressure relief valves, and the domestic hot water circuit if applicable.

### 10.2 Recommendations

Boiler maintenance is recommended at least once a year.

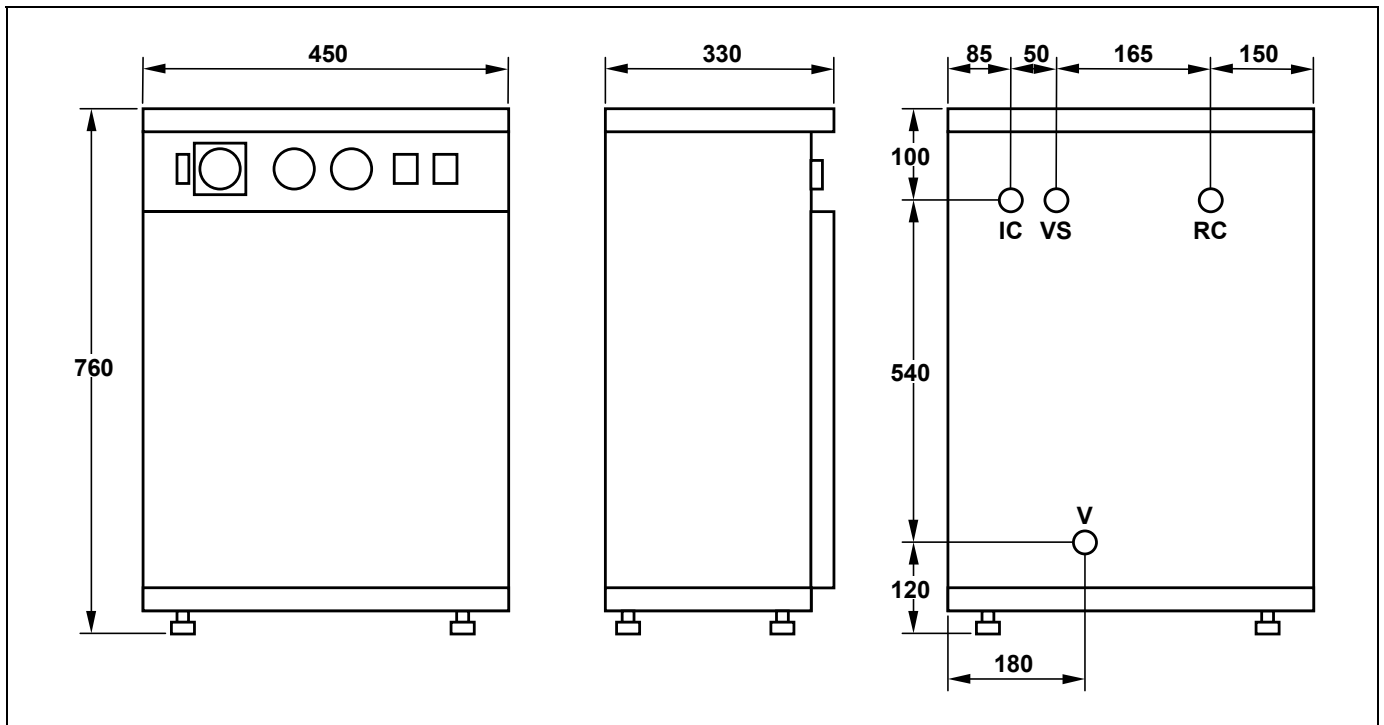
Maintenance must be carried out by qualified technicians.

To keep the boiler in perfect working order, a yearly overhaul must be performed by **DOMUSA TEKNIK**'s authorised personnel.

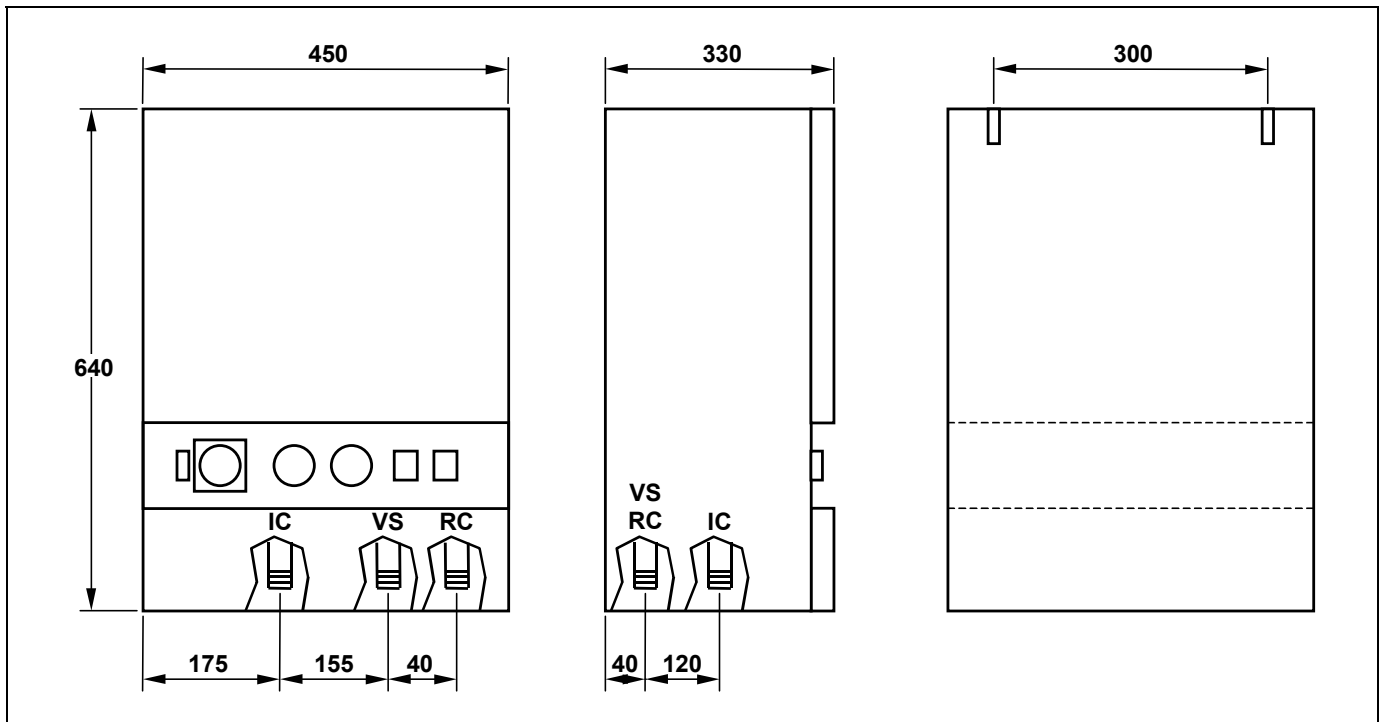
- It is recommendable to exhaustively check the boiler once a year.
- The installation pressure should be kept at 1 - 1.5 bar.

**11 DIAGRAMS AND MEASUREMENTS**

**HDEE**



**HDEEM**



**IC:** Heating Output, HDEEM 1" F, HDEE 3/4" M.

**RC:** Heating Return, HDEEM 3/4" M, HDEE 1" F.

**VS:** Pressure relief valve, 1/2" F.

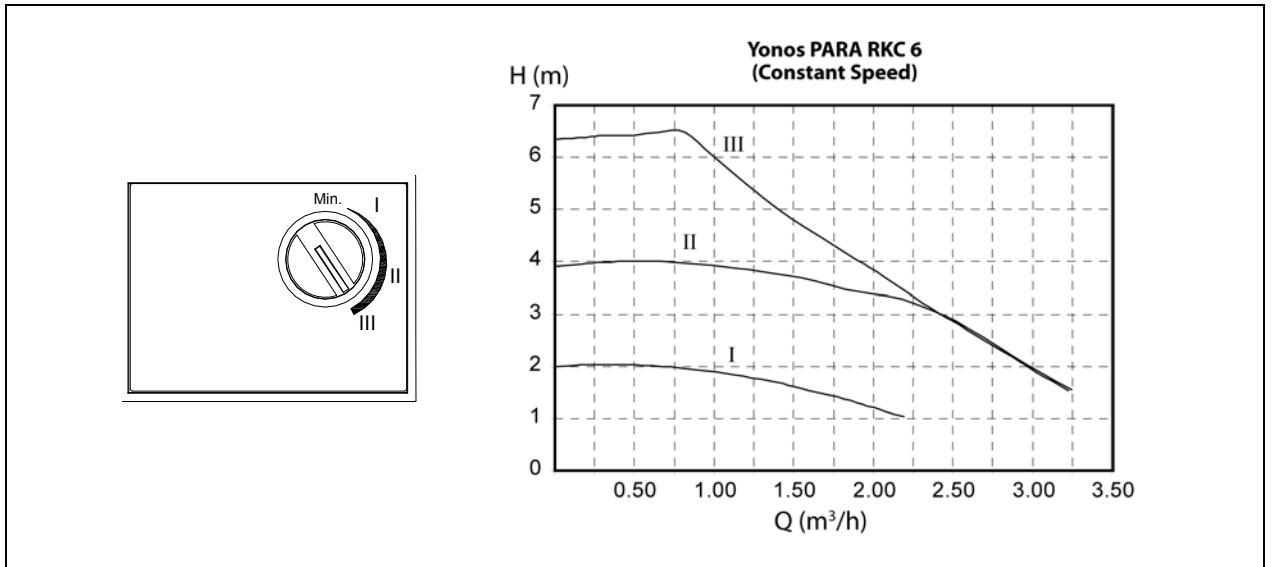
**V:** Drain valve, 1/2" M.

## 12 CIRCULATING PUMP FLOW CURVES

The graphs below can be used to obtain the hydromotive pressure available in the installation at the boiler output, taking the boiler pressure drop and pump functioning curves into account. These graphs show three curves, corresponding to the three speeds of the circulating pumps and the boiler pressure drop.

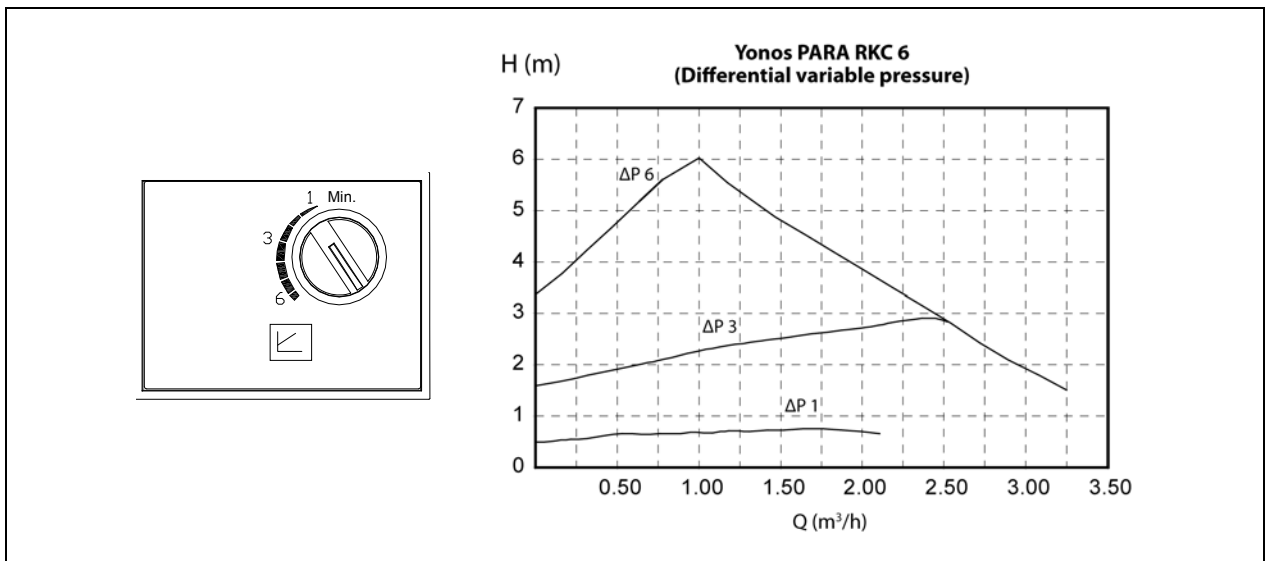
### 1-Constant speed I, II, III (traditional mode):

The pump operates at a constant, pre-set speed.

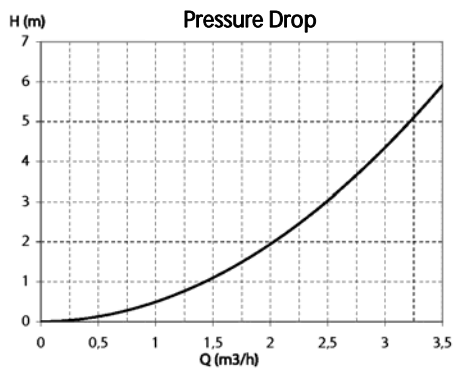


### 2-Variable differential pressure ( $\Delta p-v$ ):

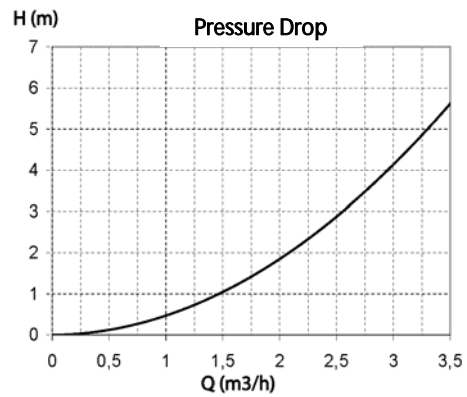
The setpoint value of the differential pressure H increases in a straight line between  $\frac{1}{2}H$  and H within the permitted flow margin. The differential pressure generated by the pump is adjusted to the appropriate setpoint value of differential pressure.



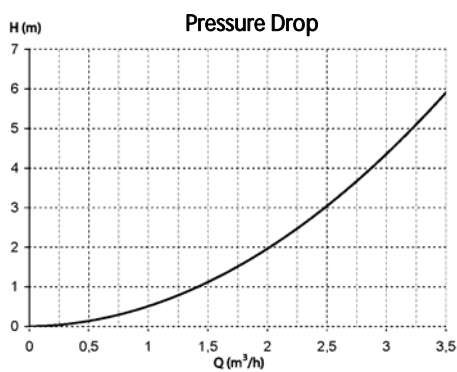
**HDEE 45/90 - 10/15 - 180:**



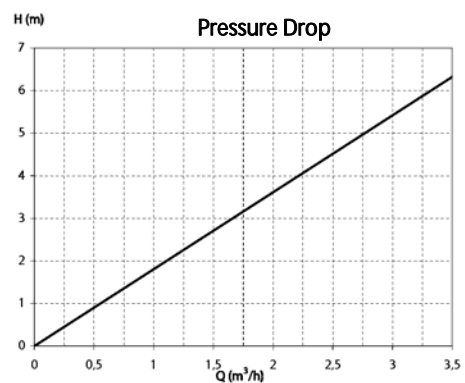
**HDEE**



**HDEEM 45/90 - 10/15 - 180:**



**HDEEM 210:**



**13 TECHNICAL CHARACTERISTICS**

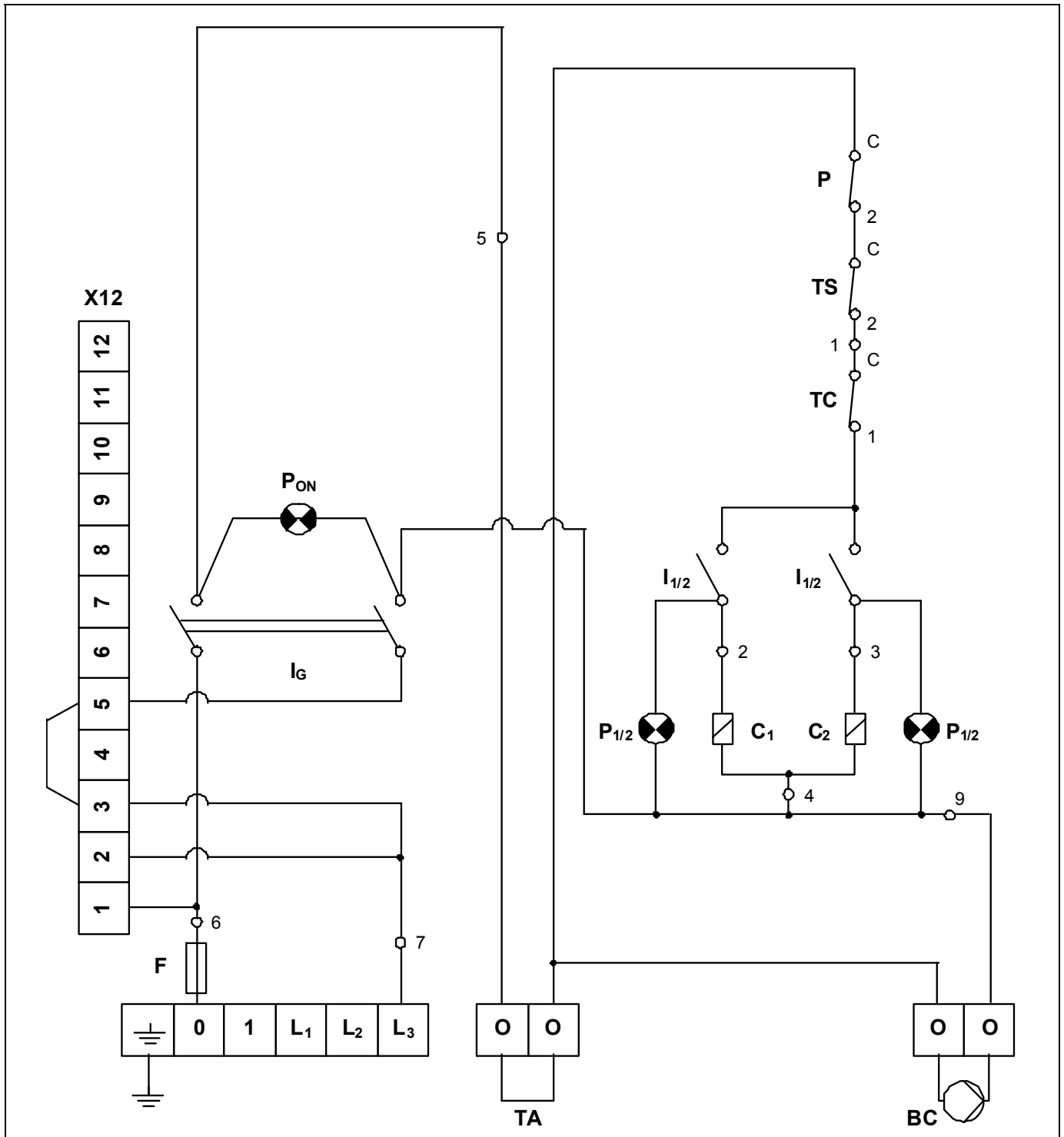
MODEL		HDEE				HDEEM							
		45/90		10/15		180	210	45/90		10/15	180	210	
Power	kW	4.5-9		10.5-15		18	21	4.5-9		10.5-15		18	21
Main supply voltage	V	230 V~ 230 V 3~ 400 V 3N~				400 V 3N~		230 V~ 230 V 3~ 400 V 3N~			400 V 3N~		
Element type	kW	6x1.5		6x2.5		6x3	6x1.75	6x1.5		6x2.5		6x3	6x1.75
Number of elements	-	1		1		1	2	1		1		1	2
Water pressure drop	mH <sub>2</sub> O	0.02	0.08	0.1	0.2	0.30	0.38	0.02	0.08	0,11	0,22	0,31	0,46
Resistance value of heating element	Ω	35.2		21.1		17.6	30.2	35.2		21.1		17.6	30.2
Expansion vessel volume	Litres	7.5						7.5					
Maximum operating pressure	bar	3						3					
Minimum operating pressure	bar	0.6						0.6					
Maximum operating temperature	°C	90						90					
Maximum safety temperature	°C	110						110					
Heating connection	Output	3/4" M						1" F					
	Return	1" F						3/4" M					
Height	mm	760						640					
Width	mm	450						450					
Depth	mm	330						330					
Weight	Kg	51						43					

# HDEE / HDEEM

## 14 ELECTRICAL DIAGRAM

### 14.1 Control diagram

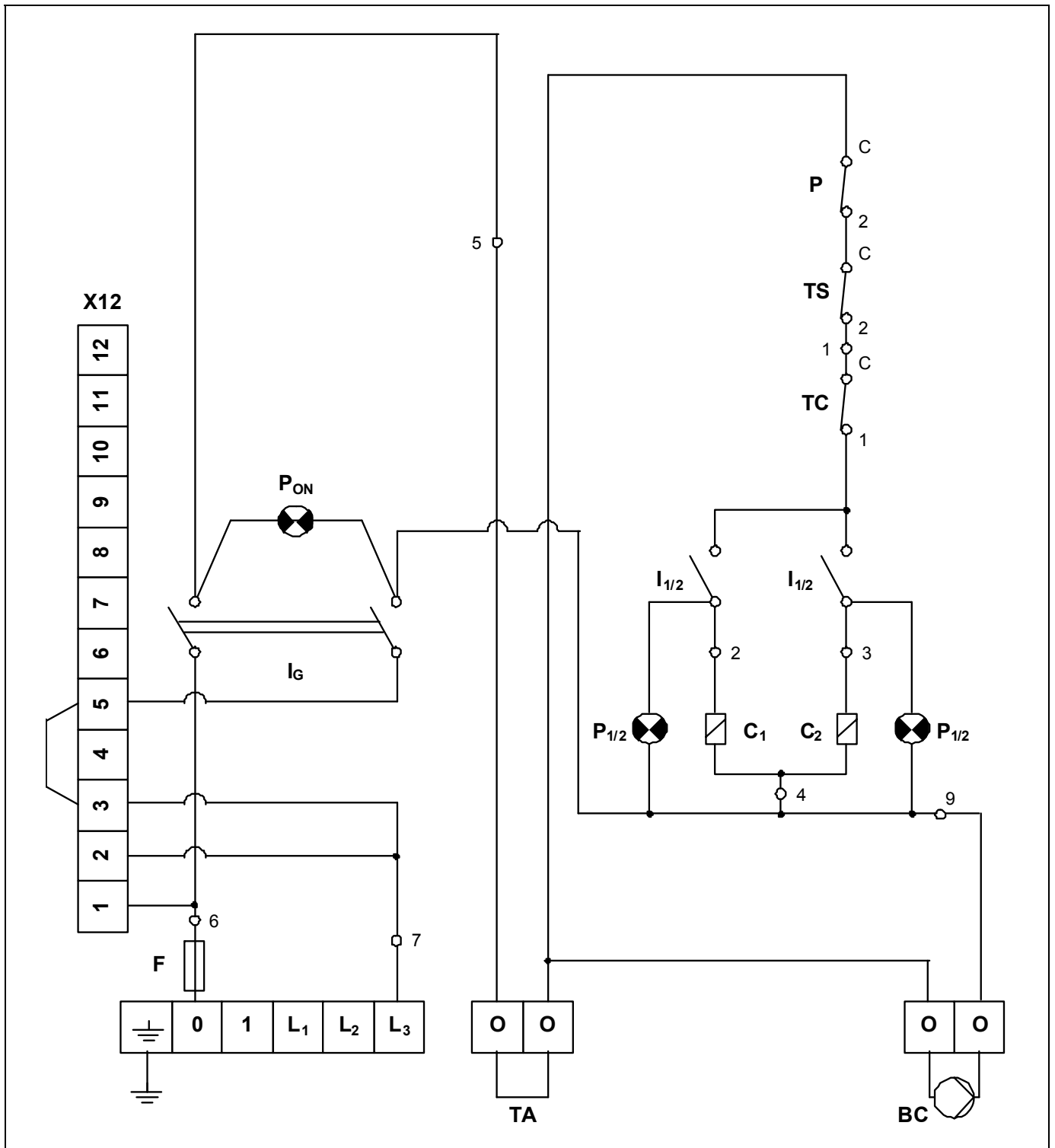
HDEE-HDEEM 45/90, HDEE-HDEEM 10/15



**BC:** Heating pump.  
**TA:** Room thermostat.  
**F:** Fuse.  
**X12:** 12-way connector for timer (Optional).  
**I<sub>G</sub>:** Main switch.  
**I<sub>1/2</sub>:** Half-power switch.

**P<sub>ON</sub>:** On pilot light.  
**P<sub>1/2</sub>:** ½ power pilot light.  
**TC:** Heating control thermostat.  
**TS:** Heating safety thermostat.  
**P:** Pressure switch.  
**C<sub>1</sub>, C<sub>2</sub>:** Heating contactors.

**HDEE-HDEEM 180, HDEE-HDEEM 210**



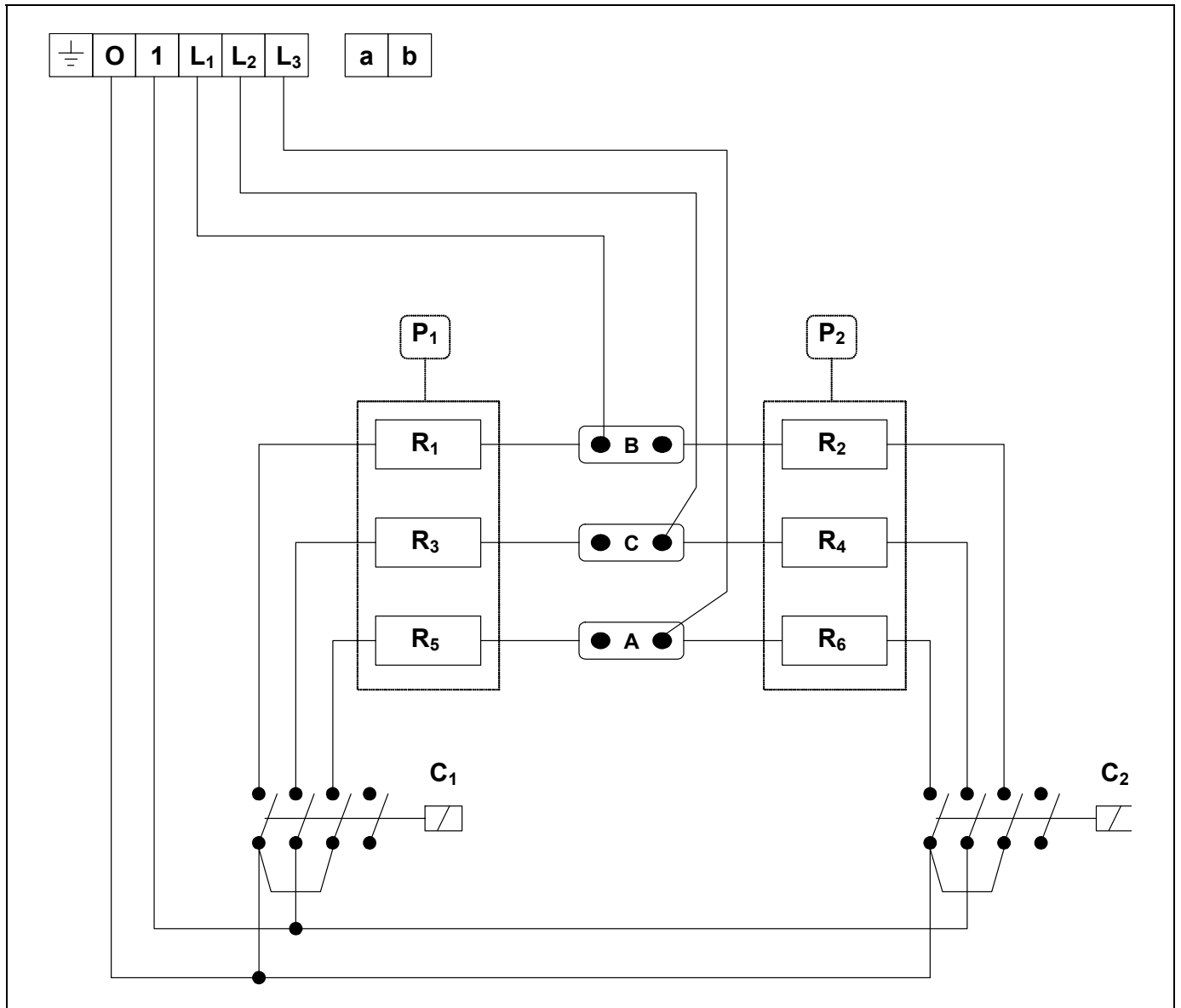
- BC:** Heating pump.
- TA:** Room thermostat.
- F:** Fuse.
- X12:** 12-way connector for timer (Optional).
- I<sub>G</sub>:** Main switch.
- I<sub>1/2</sub>:** Half-power switch.

- P<sub>ON</sub>:** On pilot light.
- P<sub>1/2</sub>:** ½ power pilot light.
- TC:** Heating control thermostat.
- TS:** Heating safety thermostat.
- P:** Pressure switch.
- C<sub>1</sub>, C<sub>2</sub>:** Heating contactors.

# HDEE / HDEEM

## 14.2 Power diagram

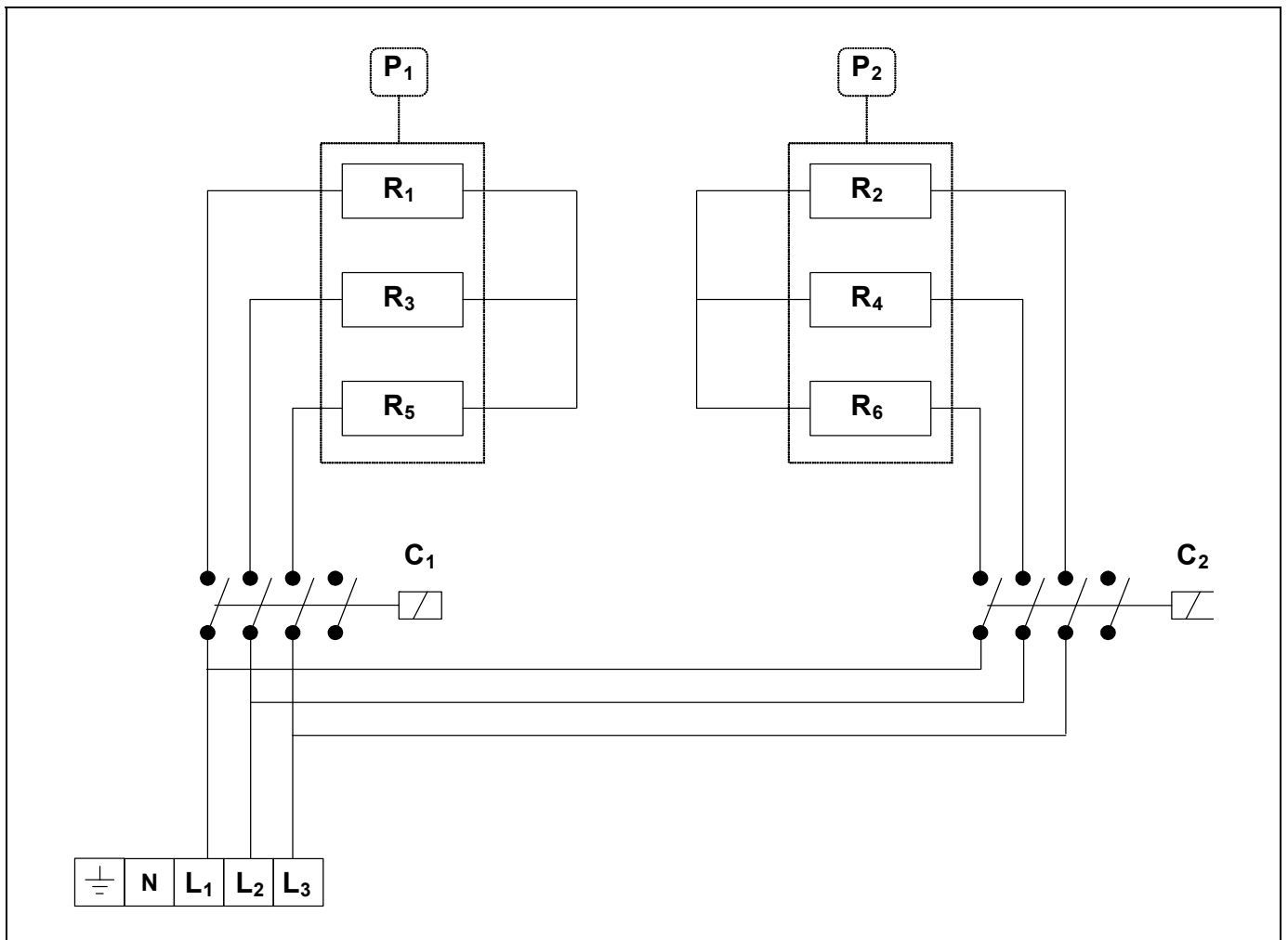
### HDEE-HDEEM 45/90, HDEE-HDEEM 10/15



- C<sub>1</sub>, C<sub>2</sub>:** Heating contactors.
- P<sub>1</sub>, P<sub>2</sub>:** Heating element units.
- A, B, C:** Bridges for heating power selection.



**HDEE-HDEEM 180, HDEE-HDEEM 210**



**C<sub>1</sub>, C<sub>2</sub>:** Heating contactors.  
**P<sub>1</sub>, P<sub>2</sub>:** Heating element units.

# HDEE / HDEEM

## 14.3 Power cable dimensions

The size of the power cables should correspond to the type and calibre of the fuse, which should be chosen according to the boiler's nominal current. The installation must comply with applicable legislation in all cases.

The permissible current for the electric cabling depends on the room temperature, the diameter, length and insulation of the conductors, the type of conduit and the conduit fitting and environment. The table below shows the approximate values for a room temperature of 30 °C and a maximum length of 5 metres. The installation must comply with applicable legislation in all cases.

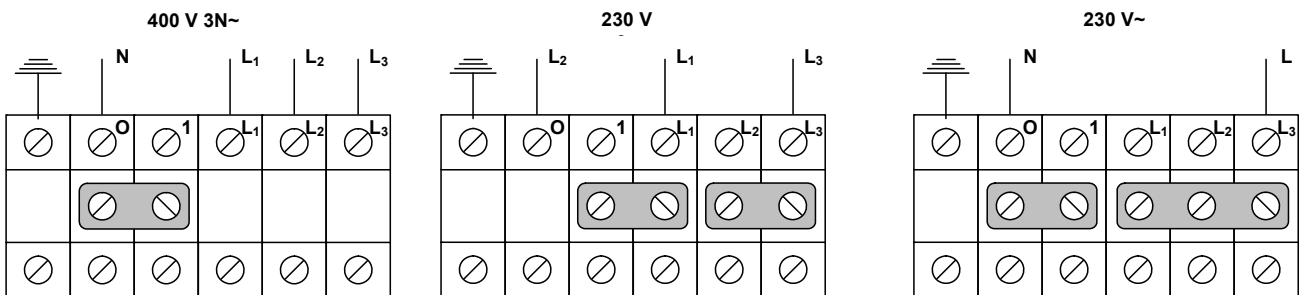
Nominal section (mm)	Nominal circuit breaker current (A)
1.5	16
2.5	25
4	32
6	40
10	63
16	80

## 14.4 Changing the voltage

If the main supply voltage is different from the voltage the boiler is designed for, the boiler must be adapted to the new voltage. To do this, **before connecting the boiler to the main supply**, change the position of the terminal strip bridges as shown in the figures below (**models HDEE-HDEEM 45/90 and HDEE-HDEEM 10/15 only**).

To remove a bridge, loosen the screws holding it in place and then pull it out of its housing. Repeat the above procedure in reverse order to replace it.

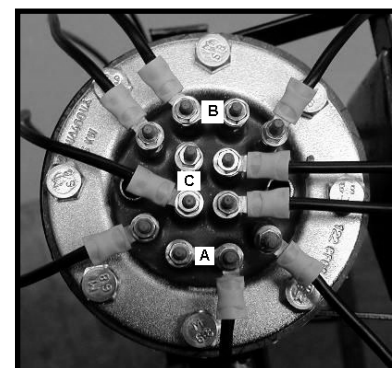
When the bridges are correctly positioned, connect the electrical supply to the boiler as shown in the corresponding figure. **Remember to make an earth connection.**



## 14.5 Changing the boiler power

**HDEE-HDEEM 45/90** and **HDEE-HDEEM 10/15** boilers allow the maximum boiler heating power to be altered to suit your requirements. To do this, simply remove some of the heat exchanger element bridges as shown in the table below.

Total power according to model (kW)		Bridges
45/90	10/15	
9	15	Leave in place
7.5	12.5	Remove A
6	10	Remove A and B
4.5	-	Remove A, B and C



**15 ELECTRICAL CHARACTERISTICS**

**HDEE/HDEEM 45/90**

		Stage 1	Stage 2	Total	Terminal strip	Power selection
<b>Single phase 230 V~, 9 kW</b>						
Terminal L3	L (A)	19.5	19.5	39.1		
Terminal 0	N (A)	19.5	19.5	39.1		
Power	<b>kW</b>	4.5	4.5	9		
<b>Single phase 230 V~, 7.5 kW</b>						
Terminal L3	L (A)	19.5	13	32.5		
Terminal 0	N (A)	19.5	13	32.5		
Power	<b>kW</b>	4.5	3	7.5		
<b>Single phase 230 V~, 6 kW</b>						
Terminal L3	L (A)	13	13	26		
Terminal 0	N (A)	13	13	26		
Power	<b>kW</b>	3	3	6		
<b>Single phase 230 V~, 4.5 kW</b>						
Terminal L3	L (A)	13	6.5	19.5		
Terminal 0	N (A)	13	6.5	19.5		
Power	<b>kW</b>	3	1.5	4.5		
<b>Three-phase 400 V 3N~, 9 kW</b>						
Terminal L1	L1 (A)	6.5	6.5	13		
Terminal L2	L2 (A)	6.5	6.5	13		
Terminal L3	L3 (A)	6.5	6.5	13		
Terminal 0	N (A)	0	0	0		
Power	<b>kW</b>	4.5	4.5	9		
<b>Three-phase 400 V 3N~, 7.5 kW</b>						
Terminal L1	L1 (A)	6.5	6.5	13		
Terminal L2	L2 (A)	6.5	6.5	13		
Terminal L3	L3 (A)	6.5	0	6.5		
Terminal 0	N (A)	0	6.5	6.5		
Power	<b>kW</b>	4.5	3	7.5		
<b>Three-phase 400 V 3N~, 6 kW</b>						
Terminal L1	L1 (A)	0	6.5	6.5		
Terminal L2	L2 (A)	6.5	6.5	13		
Terminal L3	L3 (A)	6.5	0	6.5		
Terminal 0	N (A)	6.5	6.5	6.5		
Power	<b>kW</b>	3	3	6		
<b>Three-phase 400 V 3N~, 4.5 kW</b>						
Terminal L1	L1 (A)	0	6.5	6.5		
Terminal L2	L2 (A)	6.5	0	6.5		
Terminal L3	L3 (A)	6.5	0	6.5		
Terminal 0	N (A)	6.5	6.5	0		
Power	<b>kW</b>	3	1.5	4.5		

# HDEE / HDEEM

## HDEE/HDEEM 10/15

					Stage 1	Stage 2	Total	Terminal strip	Power selection
<b>Single phase 230 V~, 15 kW</b>									
Terminal L3	L (A)	32.6	32.6	65.2					
Terminal 0	N (A)	32.6	32.6	65.2					
Power	<b>kW</b>	7.5	7.5	15					
<b>Single phase 230 V~, 12.5 kW</b>									
Terminal L3	L (A)	32.6	21.7	54.3					
Terminal 0	N (A)	32.6	21.7	54.3					
Power	<b>kW</b>	7.5	5	12.5					
<b>Single phase 230 V~, 10 kW</b>									
Terminal L3	L (A)	21.7	21.7	43.4					
Terminal 0	N (A)	21.7	21.7	43.4					
Power	<b>kW</b>	5	5	10					
<b>Three-phase 400 V 3N~, 15 kW</b>									
Terminal L1	L1 (A)	10.85	10.85	21.7					
Terminal L2	L2 (A)	10.85	10.85	21.7					
Terminal L3	L3 (A)	10.85	10.85	21.7					
Terminal 0	N (A)	0	0	0					
Power	<b>kW</b>	7,5	7,5	15					
<b>Three-phase 400 V 3N~, 12.5 kW</b>									
Terminal L1	L1 (A)	10.85	10.85	21.7					
Terminal L2	L2 (A)	10.85	10.85	21.7					
Terminal L3	L3 (A)	10.85	0	10.85					
Terminal 0	N (A)	0	10.85	10.85					
Power	<b>kW</b>	7.5	5	12.5					
<b>Three-phase 400 V 3N~, 10 kW</b>									
Terminal L1	L1 (A)	0	10.85	10.85					
Terminal L2	L2 (A)	10.85	10.85	21.7					
Terminal L3	L3 (A)	10.85	0	10.85					
Terminal 0	N (A)	10.85	10.85	10.85					
Power	<b>kW</b>	5	5	10					

**HDEE/HDEEM 180**

		Stage 1	Stage 2	Total	Terminal strip
<b>Three-phase 400 V 3N~, 18 kW</b>					
Terminal L1	L1 (A)	13	13	26	
Terminal L2	L2 (A)	13	13	26	
Terminal L3	L3 (A)	13	13	26	
Terminal 0	N (A)	0	0	0	
Power	<b>kW</b>	9	9	18	

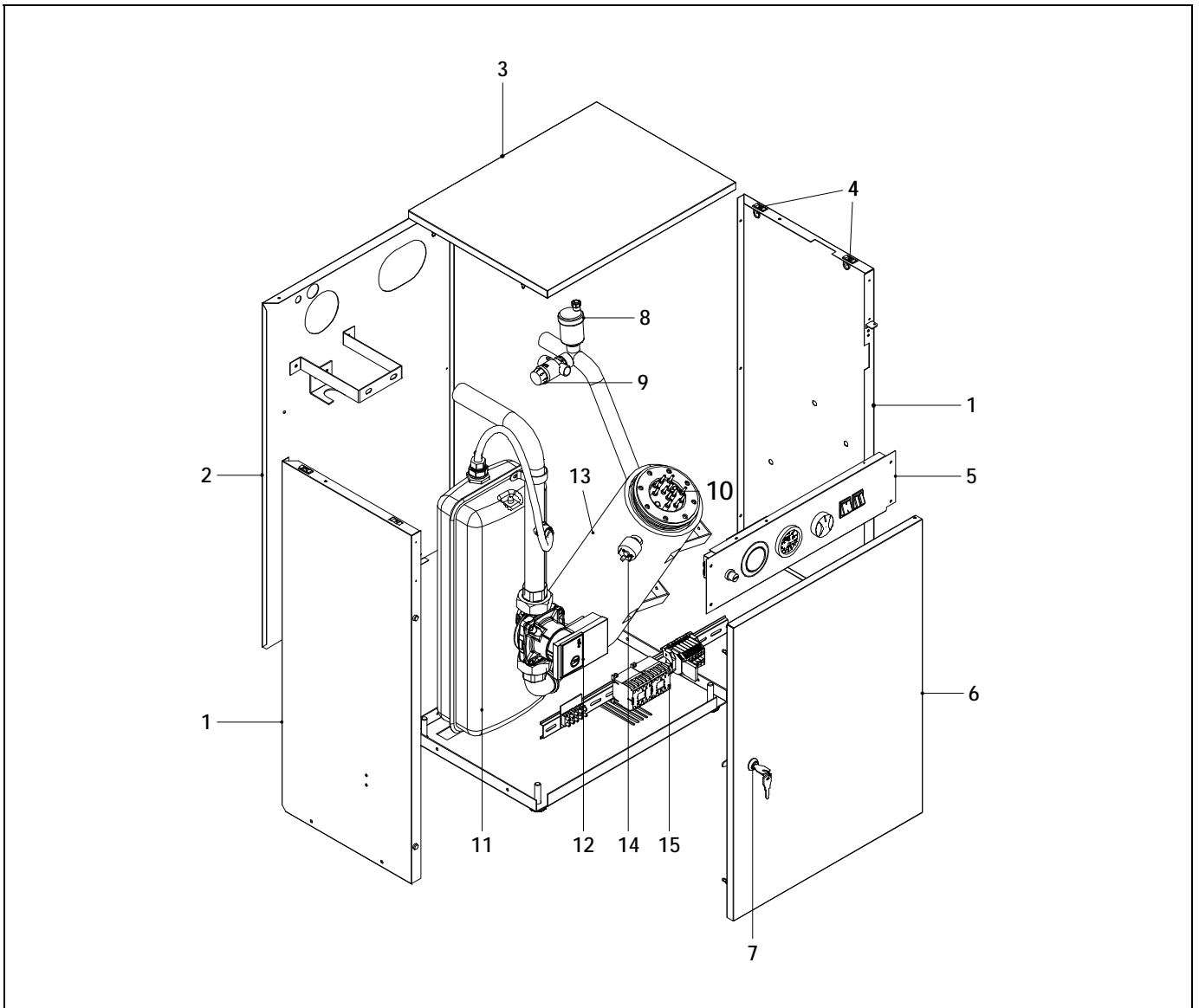
**HDEE/HDEEM 210**

		Stage 1	Stage 2	Total	Terminal strip
<b>Three-phase 400 V 3N~, 21 kW</b>					
Terminal L1	L1 (A)	15.2	15.2	30.4	
Terminal L2	L2 (A)	15.2	15.2	30.4	
Terminal L3	L3 (A)	15.2	15.2	30.4	
Terminal 0	N (A)	0	0	0	
Power	<b>kW</b>	10.5	10.5	21	

# HDEE / HDEEM

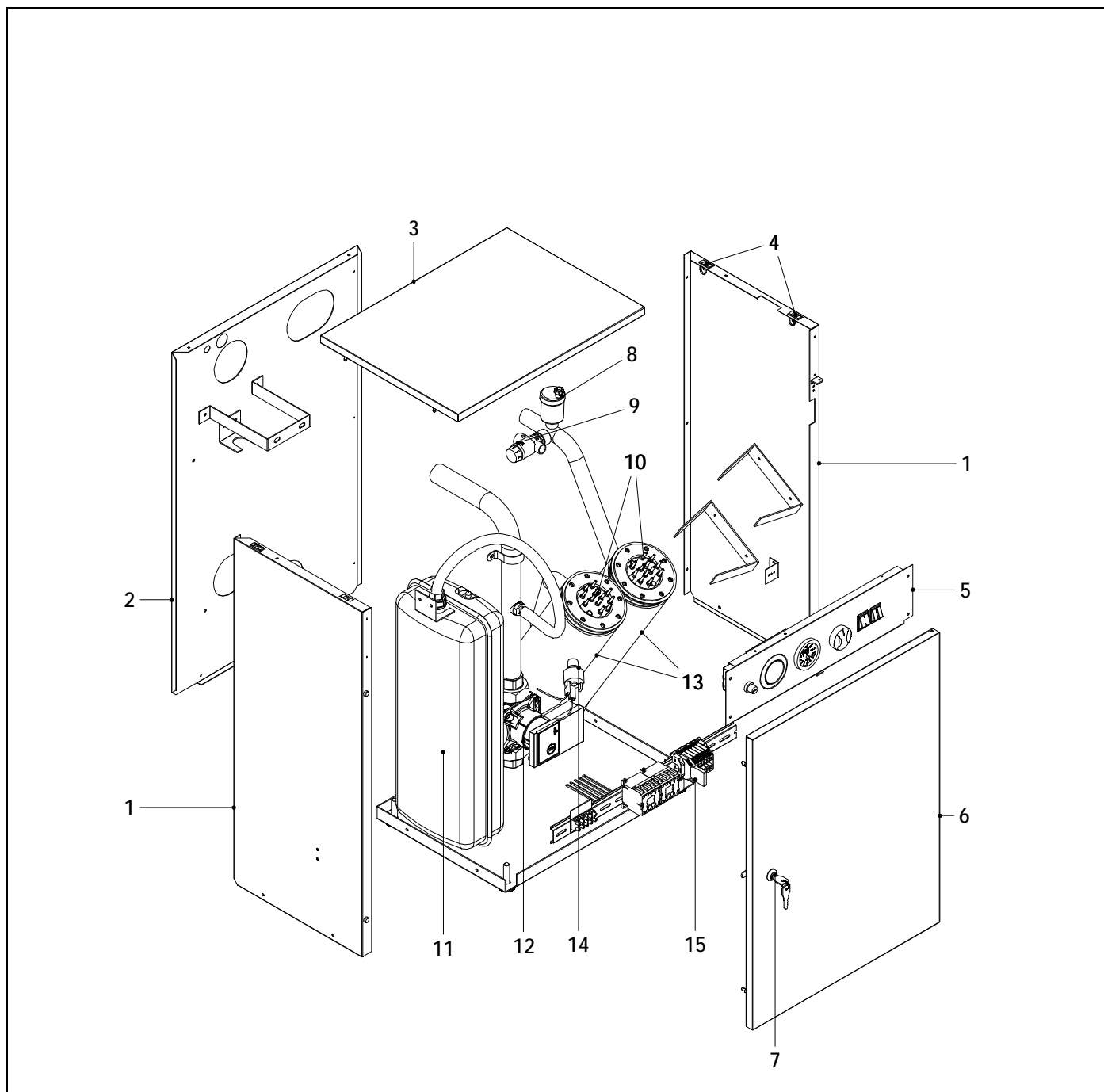
## 16 SPARE PARTS LIST

### 16.1 HDEE 45/90, 10/15, 180



<u>Pos.</u>	<u>Code</u>	<u>Designation</u>	<u>Pos.</u>	<u>Code</u>	<u>Designation</u>
1	SEPO000361	Right side cover	10	CRES000004	9 kW element (45/90)
	SEPO000360	Left side cover		CRES000008	15 kW element (10/15)
2	SEPO000362	Back cover		CRES000009	18 kW element (180)
3	SEPO000026	Top cover	11	CFOV000032	Expansion vessel
4	CFER000048	Spring closure	12	CFOV000145	Heating pump
5	SELEDEE000	Electrical board	13	SCON000043	Heat exchanger
6	SEPO000027	Door	14	CELC000078	Pressure switch
7	CFER000026	Lock	15	GMANDEE100	Modular control (45/90)
8	GFOV000002	Automatic air vent		GMANDEE102	Modular control (10/15)
9	CVAL000004	Pressure relief valve		GMANDEE005	Modular control(180)

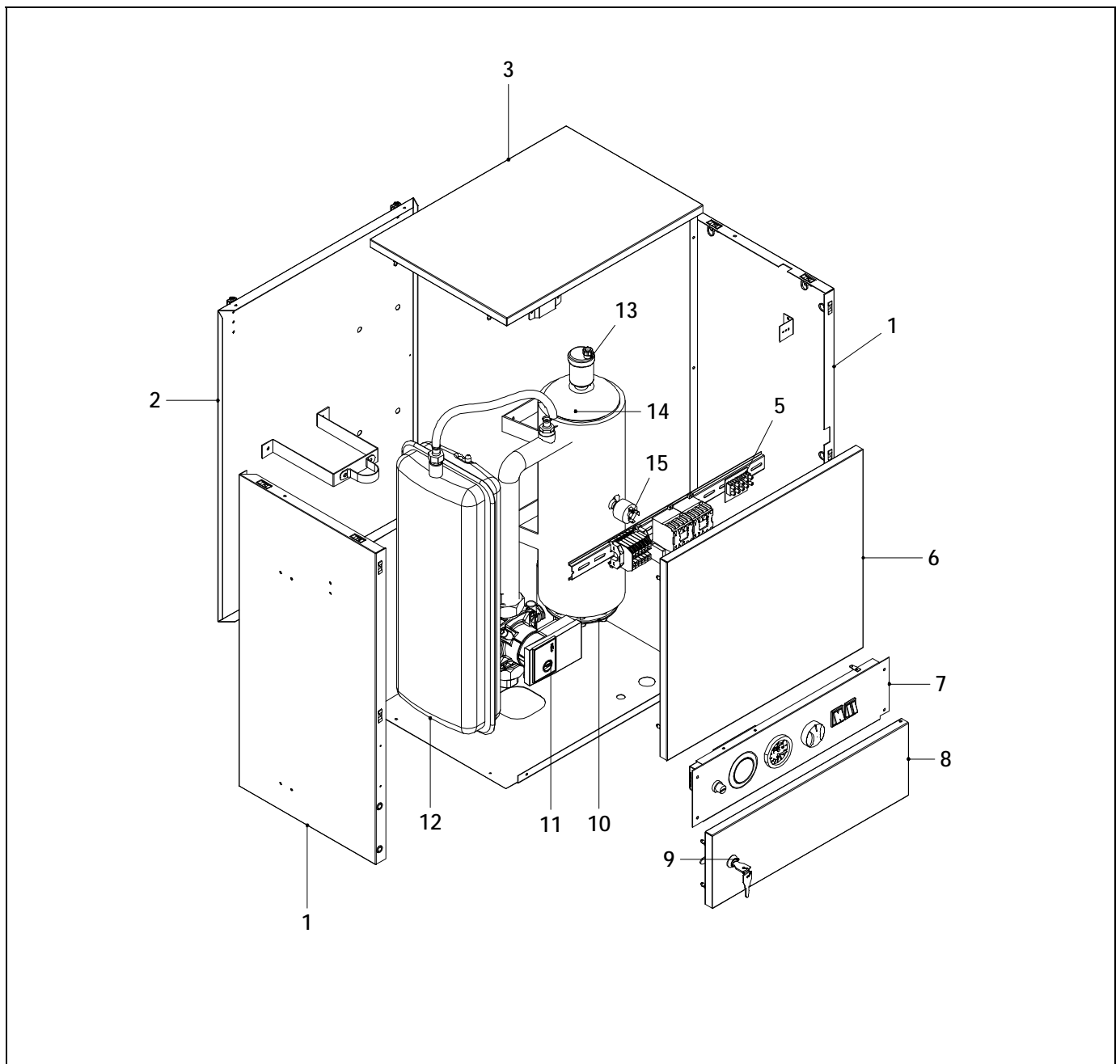
16.2 HDEE 210



<u>Pos.</u>	<u>Code</u>	<u>Designation</u>	<u>Pos.</u>	<u>Code</u>	<u>Designation</u>
1	SEPO000361	Right side cover	8	GFOV000002	Automatic air vent valve
	SEPO000360	Left side cover	9	CVAL000004	Pressure relief valve
2	SEPO000362	Back cover	10	CRES000005	10.5 kW element (210)
3	SEPO000026	Top cover	11	CFOV000032	Expansion vessel
4	CFER000048	Spring closure	12	CFOV000145	Heating pump
5	SELEDEE000	Electrical board	13	SCON000045	Heat exchanger
6	SEPO000027	Door	14	CELC000078	Pressure switch
7	CFER000026	Lock	15	GMANDEE07	Modular control (210)

# HDEE / HDEEM

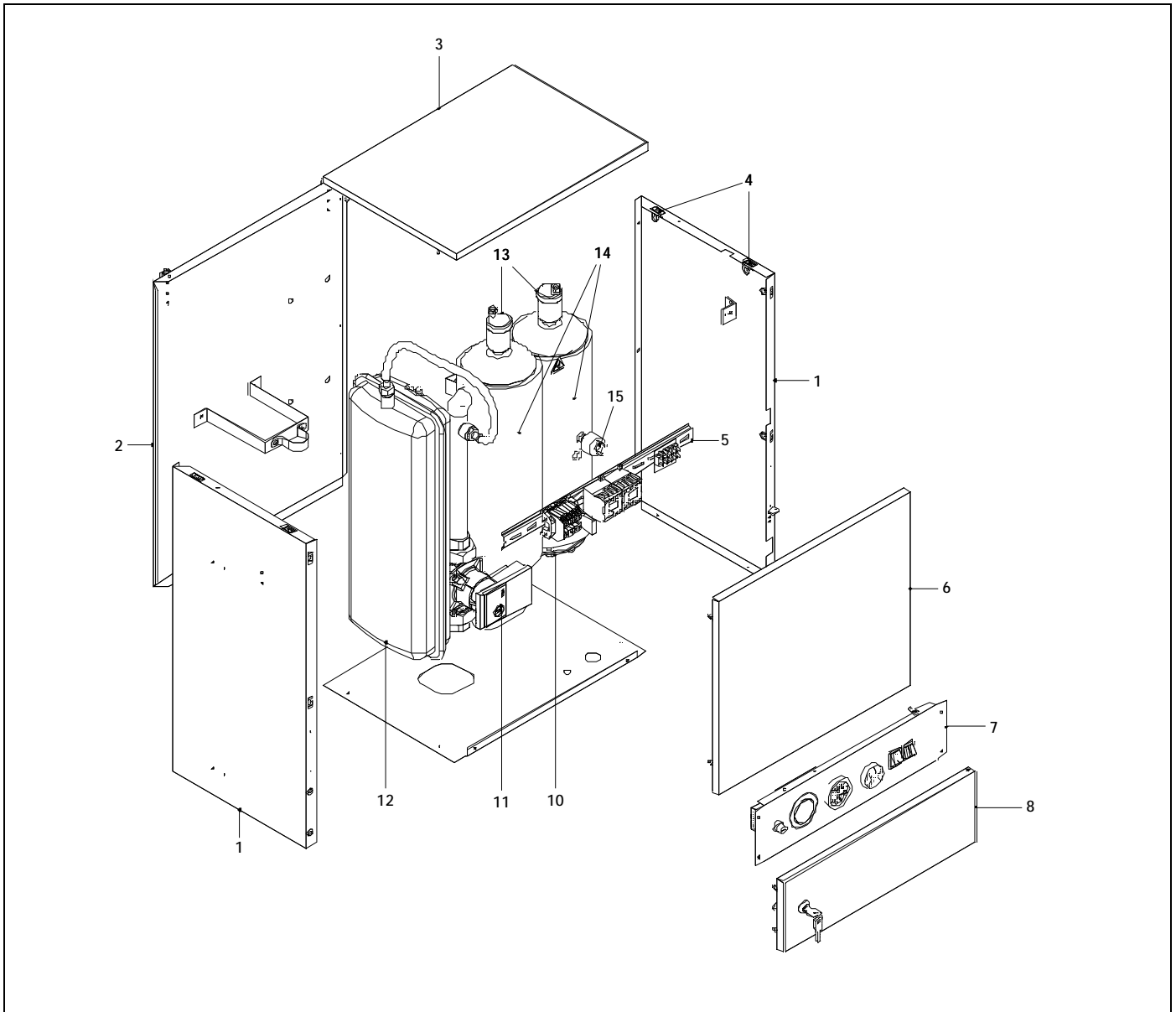
## 16.3 HDEEM 45/90, 10/15, 180



<u>Pos.</u>	<u>Code</u>	<u>Designation</u>	<u>Pos.</u>	<u>Code</u>	<u>Designation</u>
1	SEPO000353	Right side cover	9	CFER000026	Lock
	SEPO000354	Left side cover	10	CRES000004	9 kW element (45/90)
2	SEPO000355	Back cover		CRES000008	15 kW element (10/15)
3	SEPO000032	Top cover		CRES000009	18 kW element (180)
5	GMANDEE100	Modular control (45/90)	11	CFOV000145	Heating pump
	GMANDEE102	Modular control (10/15)	12	CFOV000032	Expansion vessel
	GMANDEE005	Modular control (180)	13	GFOV000002	Automatic air vent valve
6	SEPO000031	Door	14	SCON000044	Heat exchanger
7	SELEDEE000	Electrical board	15	CELC000078	Pressure switch
8	SEPO000030	Lower front cover			



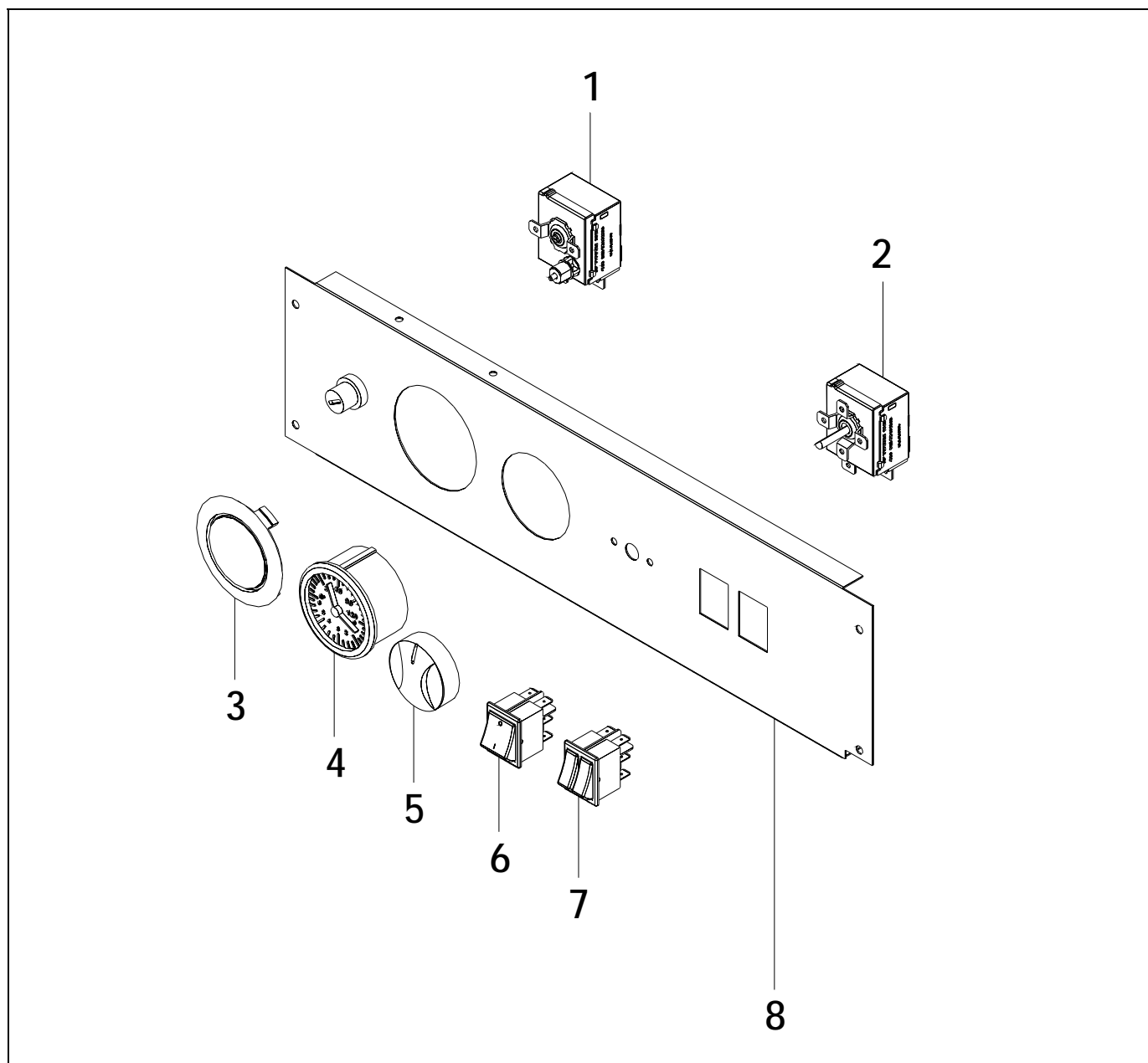
**16.4 HDEEM 210**



<b>Pos.</b>	<b>Code</b>	<b>Designation</b>	<b>Pos.</b>	<b>Code</b>	<b>Designation</b>
<b>1</b>	SEPO000353	Right side cover	<b>8</b>	SEPO000030	Lower front cover
	SEPO000354	Left side cover	<b>9</b>	CFER000026	Lock
<b>2</b>	SEPO000355	Back cover	<b>10</b>	CRES000005	10.5 kW element (210)
<b>3</b>	SEPO000032	Top cover	<b>11</b>	CFOV000145	Heating pump
<b>4</b>	CFER000048	Spring closure	<b>12</b>	CFOV000032	Expansion vessel
<b>5</b>	GMANDEE007	Modular control board (210)	<b>13</b>	GFOV000002	Automatic air vent valve
<b>6</b>	SEPO000031	Door	<b>14</b>	SCON000046	Heat exchanger
<b>7</b>	SELEDEE000	Electrical board	<b>15</b>	CELC000078	Pressure switch

# HDEE / HDEEM

## 16.5 Main board



<u>Pos.</u>	<u>Code</u>	<u>Designation</u>
1	CELC000022	Safety thermostat 110 °C 1m
2	CELC000007	Control thermostat 1m
3	CELC000177	Extension without timer
4	CELC000002	Thermohydrometer 1m
5	CELC000097	Knob
6	CELC000011	Main switch
7	CELC000079	Power selection switch
8	CEXT000439	Front panel

## 17 BOILER SECURITY SYSTEMS

The boiler has two types of safety blockings:

### 17.1 Boiler temperature safety locking

This locking is activated when the temperature in the boiler increases over 110 °C. To release it, press the safety thermostat button after first removing its cap.

### 17.2 Low pressure locking

This locking occurs when the installation pressure drops below 0.6 bar, preventing the boiler from functioning when there is not water in the installation, due to either leakage or maintenance operations. To release boiler functioning, fill the installation again until a pressure of 1 - 1.5 bar is shown on the manometer **(3)**.

**NOTE: If any of the locks was repetitive, call your nearest official Technical Assistance Service.**

# DOMUSA

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**DOMUSA TEKNIK** reserves the right to make modifications of any kind to its product characteristics without prior notice.



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