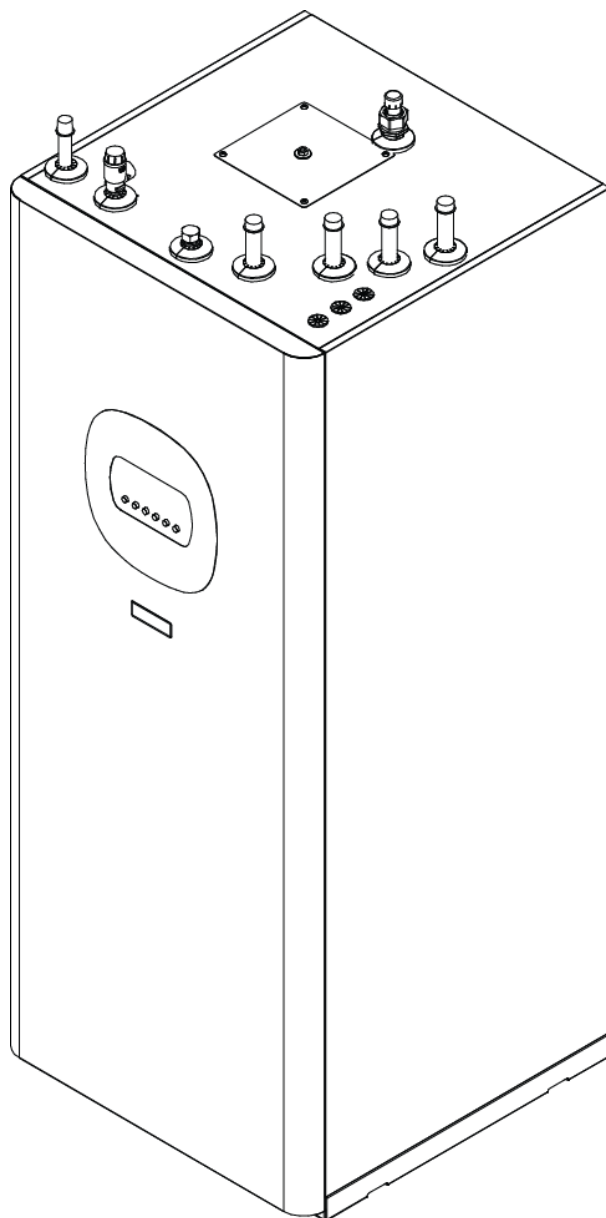


# L INSTALLATION AND OPERATING INSTRUCTIONS

→ FUSION HE



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**DOMUSA**  
T E K N I K

Thank you for choosing a **DOMUSA TEKNIK** heat pump accessory. You have chosen the **FUSION** model from the **DOMUSA TEKNIK** product line. This is an all-in-one hydraulic accumulation module, which in combination with a heat pump of the **DUAL CLIMA** line is able to provide the adequate level of comfort for your home, provided that the hydraulic installation is correctly performed.

This document constitutes an essential part of the product and must be delivered to the end user. Please carefully read the warnings and advice contained in this manual, as they provide important information regarding the safety of the installation, as well as use and maintenance.

The installation of this appliance should be carried out only by qualified personnel, in accordance with the regulations in force and following the manufacturer's instructions.

Both the start-up and any maintenance operation of this appliance should be carried out only by the Official Technical Assistance Services of **DOMUSA TEKNIK**.

Incorrect installation of this product may cause damage to people, animals and objects, for which the manufacturer shall not be held liable.

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# FUSION HE

## 1 SAFETY WARNINGS

### 1.1 Usage and installation warnings

The **FUSION** module should be installed by personnel authorised by the Ministry of Industry, in compliance with the laws and regulations in force in the matter. The precautions detailed here cover very important issues, so please be sure to follow them accordingly.

Please carefully read this instruction manual and keep it in a safe, easily-accessible place. **DOMUSA TEKNIK** shall not be held liable for any damage that may occur due to failure to follow these instructions.

The **FUSION** storage module can only be installed in combination with a heat pump from the **DUAL CLIMA** line from **DOMUSA TEKNIK**. The **FUSION** module, in combination with a **DUAL CLIMA** heat pump, is suitable for use in both heating and cooling installations, and can be combined with fan coils, underfloor heating/cooling and low-temperature radiators. It should be connected to a heating/cooling system and to a hot water distribution network that is compatible with its performance and power.

This appliance should only be used for the purpose for which it has been expressly designed. Any other use is considered unsuitable and therefore hazardous. The manufacturer shall not be considered liable under any circumstances for damage caused by unsuitable, erroneous or improper use.

Remove all the packaging and check that the contents are complete. In case of doubt, do not use the appliance and refer to the supplier. Keep the packaging elements out of reach of children, as they can be dangerous.

Improper installation or placement of equipment or accessories may cause electrocution, short circuit, leakage, fire, or other damage to the equipment. Use only accessories or optional equipment manufactured by **DOMUSA TEKNIK** and specifically designed to work with the products presented in this manual. Do not modify, replace or disconnect any safety or control device without first consulting the manufacturer or the Official Technical Assistance Service of **DOMUSA TEKNIK**.

When it is decided not to use the equipment anymore, the parts likely to constitute potential sources of danger should be properly decommissioned.

### 1.2 Personal safety warnings

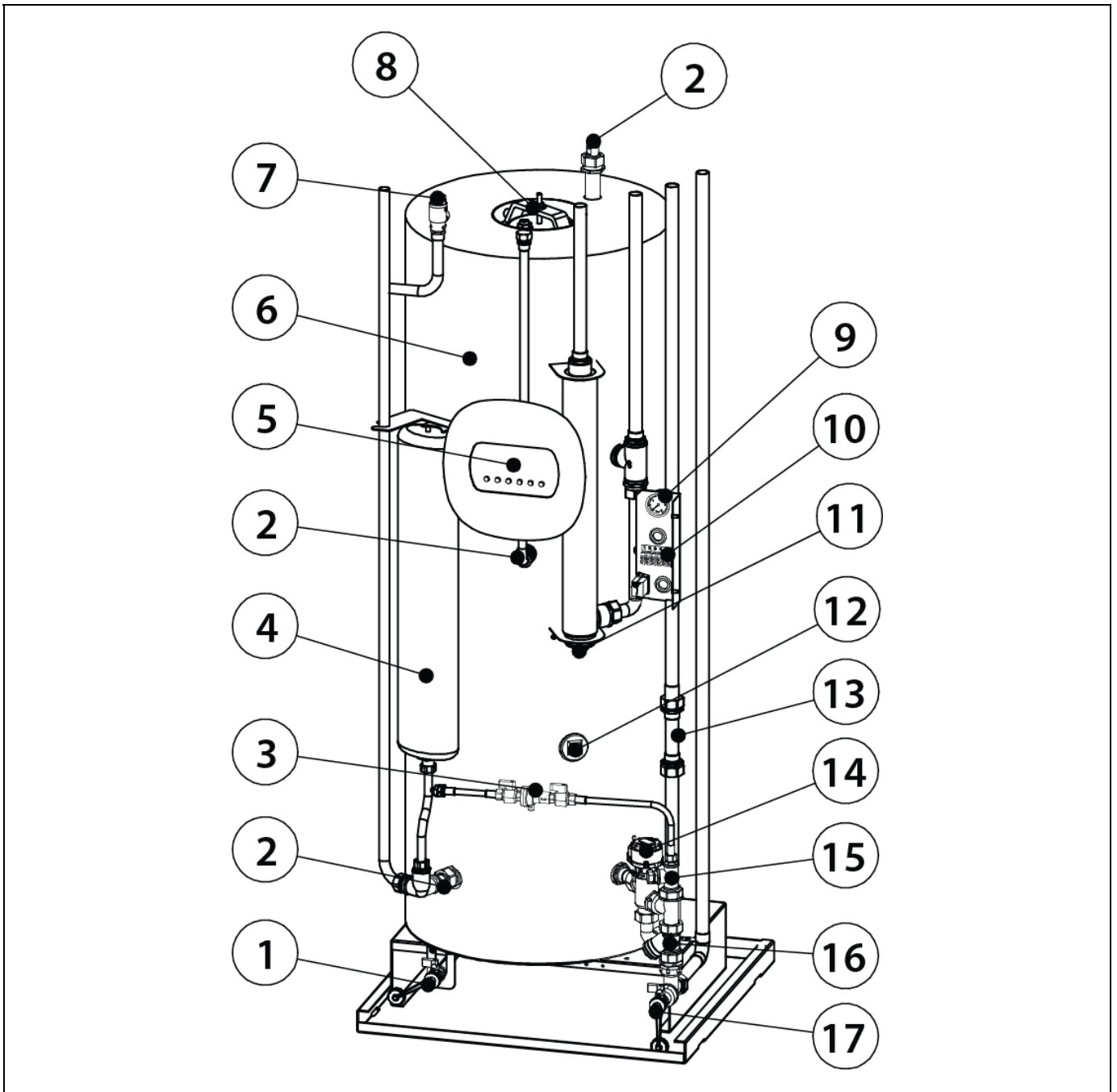
Always wear suitable personal protection equipment (protective gloves, safety glasses, etc.) when carrying out installation and/or maintenance operations in the unit.

Do not touch any switch with wet fingers. Touching a switch with wet fingers may cause electric shock. Before accessing the electrical components, fully disconnect the power supply.

Do not touch water pipes or internal parts during and immediately after operation. Pipes and internal parts may be excessively hot or cold, depending on the use of the unit.

The hands may be burned by cold or heat in case of improperly touching pipes or internal parts. To avoid injury, wait until the pipes and internal parts return to their normal temperature. Alternatively, if access is required, be sure to wear appropriate safety gloves.

**2 LIST OF COMPONENTS**



- |                            |  |
|----------------------------|--|
| 1. DHW drain valve.        | 10. Connection strip.                              |
| 2. Dielectric sleeve.      | 11. Heating backup heater <b>E2</b> (Optional).    |
| 3. Filling disconnect.     | 12. DHW backup heater <b>E1</b> (Optional).        |
| 4. DHW expansion vessel.   | 13. Installation backup pump <b>C6</b> (Optional). |
| 5. Control panel.          | 14. Motorised 3-way diverter valve.                |
| 6. DHW tank.               | 15. Heating expansion vessel (Optional).           |
| 7. DHW relief valve.       | 16. Water filter.                                  |
| 8. DHW sensor bulb sheath. | 17. Installation drain valve.                      |
| 9. Manometer.              |  |

# FUSION HE

## 3 INSTALLATION INSTRUCTIONS

The **FUSION** hydraulic module can only be installed in combination with a heat pump from the **DUAL CLIMA** line supplied by **DOMUSA TEKNIK**. Therefore, for their operation, these devices should be connected to each other, both hydraulically and electrically. In this section, the necessary operations for said connection are described in detail.

### 3.1 Accessories Supplied

The following accessories are supplied inside the **FUSION** hydraulic module inside a documentation bag. Before proceeding with the installation of the machine, make sure you receive them and that they are in good condition:



**Documentation:** Inside the machine, by opening the front, the documentation bag can be located, including all the manuals and documents necessary for the use and installation of the equipment.



**Connection fitting Ø18x3/4":** Special fitting for the connection of the DHW Domestic Cold Water inlet pipe (see *"Sketch and measurements"*). For its correct use, please read carefully the section *"Hydraulic installation"*.



**4x Connection fitting Ø22x1":** Special fitting for the connection of the pipes with the Dual Clima heat pump and the Heating/Cooling Installation (see *"Diagrams and Measurements"*). For its correct use, please read carefully the section *"Hydraulic installation"*.

### 3.2 Hydraulic installation

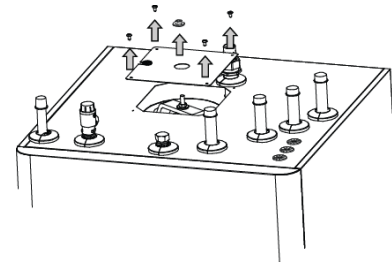
The hydraulic installation should be carried out by qualified personnel, in compliance with the current installation regulation and considering the following recommendations:

- All water circuit piping **MUST** be insulated to prevent condensation during operation in cooling mode and reduction of cooling and heating capacity, as well as to prevent freezing of outside pipes during winter. The minimum insulation thickness of the pipes should be 19 mm (0.039 W/mK), preferably comprising a closed cell insulation or a vapor barrier. In outdoor areas exposed to the sun, the insulation must be protected from the effects of degradation.
- It is advisable to insert shut-off valves between the installation and the hydraulic module, in order to simplify maintenance work.
- Drain valves and suitable devices should be fitted for the correct removal of air from the circuit during the filling stage.
- The **FUSION** hydraulic module is an accessory that should be installed in combination with a **DUAL CLIMA** heat pump for its correct operation. Therefore, in addition to the recommendations described above, it must comply with those indicated in the heat pump installation manual.

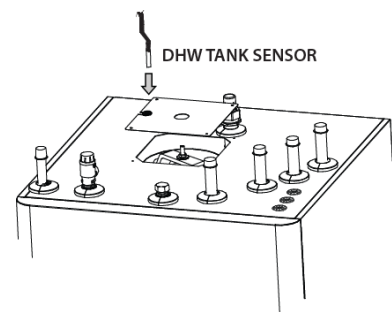
### 3.3 Assembly of the DHW probe

For the correct functioning of the **FUSION** hydraulic module, the DHW probe, supplied in the **DUAL CLIMA** heat pump, must be inserted in the bulb sheath provided in the module tank. This probe is located inside the machine and is identified as **"DHW TANK SENSOR"**. For correct assembly, the probe must be guided to where the **FUSION** module has been placed and inserted into the bulb sheath provided for it in the same, following the steps indicated below:

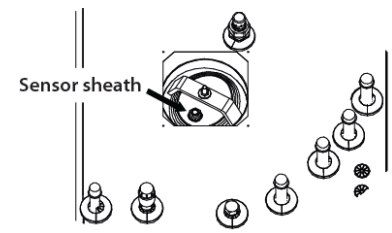
- 1.- Remove the access cover to the tank, located on the roof of the module, by unscrewing the 4 fixing screws and the fastening nut of the tank.



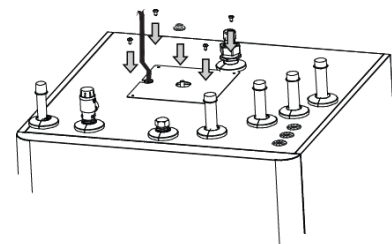
- 2.- Pass the bulb of the DHW temperature sensor ("DHW TANK SENSOR") through the rubber cable duct provided in the cover.



- 3.- Insert the sensor inside the bulb sheath provided in the tank. Be sure to insert the sensor bulb until it stops against the bottom of the bulb sheath.



- 4.- Reassemble the access cover to the tank on the roof of the module, tightening the 4 screws and the fastening nut.



The probe supplied with the heat pump is 5 metres long. Where necessary, it can be extended up to a maximum distance of 50 metres (section between 0.5÷1.25 mm<sup>2</sup>).

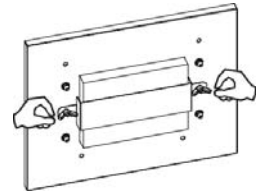
**IMPORTANT:** When working on the electrical installation of the heat pump, make sure that it is disconnected from the electrical network.

# FUSION HE

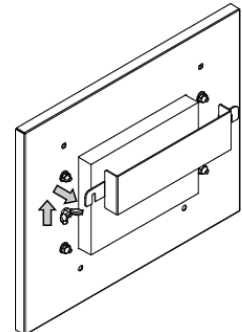
## 3.4 Assembly and connection of the control panel

The control panel is supplied inside the heat pump and must be mounted on the front of the **FUSION** hydraulic module. To do this, remove the front and access the electrical cabinet located at the back. For its correct assembly, please carefully follow the following steps:

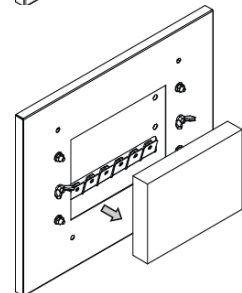
1.- Loosen the wing nuts indicated in the figure.



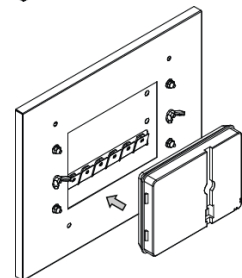
2.- Remove the support cap from the control panel, moving it upwards.



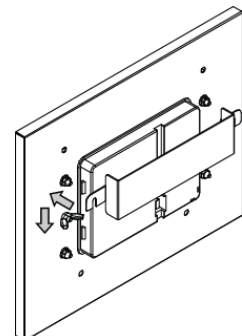
3.- Remove the protective foam insert.



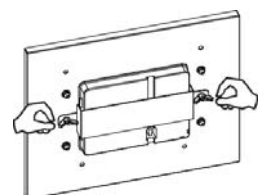
4.- Place the control panel removed from the **DUAL CLIMA** heat pump in its place.



5.- Reassemble the control panel cover, inserting it into the wing nuts, moving it downwards.



6.- Tighten the wing nuts to attach the handle to the drawer unit.





Before switching on the heat pump, the control panel must be connected to the external machine. To do this, pass the cable that is supplied inside the heat pump (located alongside the probe harness) to the interior of the **FUSION** module. The hydraulic module has a series of cable ducts in its roof, through one of which it will be possible to introduce the cable inside the equipment.

Finally, the connectors of the cable and the control panel should be connected at their ends. **A cable with sufficient length should be provided inside the module**, in such a manner that it is possible to open the front of the equipment without having to disconnect said cable and facilitate any maintenance operation inside.

The cable supplied with the heat pump is 5 metres long. Where necessary, it can be extended up to a maximum distance of 100 metres (section between 0.5÷1.25 mm<sup>2</sup>).

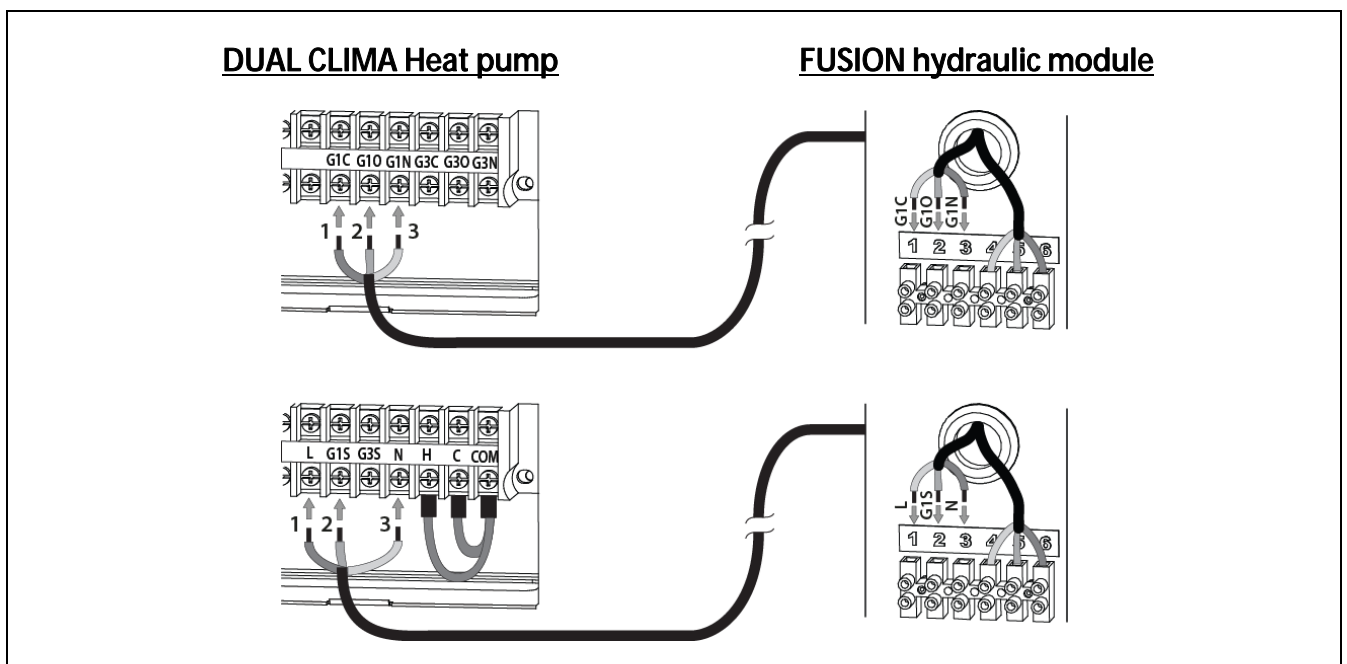
**IMPORTANT:** When working on the electrical installation of the heat pump, make sure that it is disconnected from the electrical network.

**IMPORTANT:** Provide a sufficient length of cable inside the module in order to facilitate the opening of the front cover.

### 3.5 Connecting the DHW diverter valve (G1)

The **FUSION** hydraulic module includes a motorised 3-way diverter valve, which is responsible for directing the flow of water from the heat pump to the DHW heat exchanger or to the heating/cooling system, according to the command signal received from it. To do this, a 3-wire electrical hose must be routed from the terminal strip of the **DUAL CLIMA** heat pump to the inside of the **FUSION** module. The hydraulic module has a series of cable ducts in its roof, through one of which it will be possible to introduce the cable inside the equipment.

The electrical connection of the valve will be made between the general connection terminal of the heat pump and the terminal strip of the **FUSION** module, by removing the cover to access it. The following figures describe the form of connection of the motorised valve according to the heat pump version available:



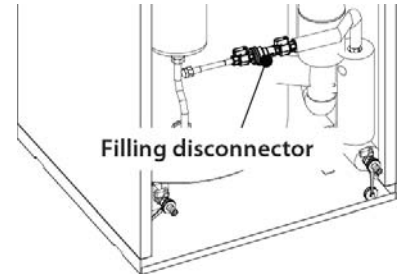
**IMPORTANT:** When working on the electrical installation of the heat pump, make sure that it is disconnected from the electrical network.

# FUSION HE

## 3.6 Filling the installation

The FUSION hydraulic module has a filling disconnecter and a manometer, by means of which the water filling of the complete Heating/Cooling system can be carried out, including the external unit and the exchanger of the DHW cylinder. In turn, the hydraulic installation should incorporate the drain valves and hydraulic components necessary for its correct filling.

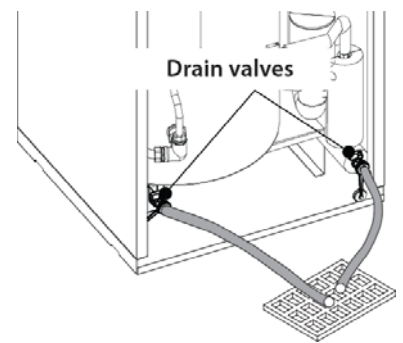
To carry out the filling, open the disconnecter valves until the manometer indicates a pressure between 1 and 1.5 bar. The heat pump (external unit) includes a manual drain valve on the upper part of the heat exchanger flow tube (condenser). Open it during the filling process and wait for the water to start running (please refer to the operations manual of the **DUAL CLIMA** heat pump). The air should also be bled from the rest of the installation using the air bleed valves provided. The filling must be carried out slowly, thereby facilitating air evacuation from the water circuit. Once the installation is full, close the disconnecter valves.



**IMPORTANT: Starting the heat pump without water may cause serious damage to it.**

## 3.7 Drainage

The FUSION hydraulic module has 2 drain valves: one to drain the water from the primary installation and the other to drain the Domestic Water from the inside of the tank. For the correct drainage of any of the two circuits, a flexible tube should be connected to the corresponding tube and led to a drain. In the case of the drainage of the primary installation, it is advisable to open the steam traps present in the heating/air conditioning system so that air enters the circuit once the pressure in the circuit has been lost. After draining the boiler, close the valve again and remove the flexible tube.



## 4 OPERATION

The FUSION hydraulic module is a passive accessory. Therefore, its operation will be fully managed by the **DUAL CLIMA** heat pump controllers connected to it, which should be mounted on the front of the module (see *"Assembly and connection of the control panel"*). To properly configure and manage its operation, please carefully read the "Installation and Operating Instructions Manual" supplied alongside the heat pump.

Nevertheless, in order to obtain all the features for which the all-in-one hydraulic module has been provided, it should be ensured at least that the DHW service and the Heating and/or Cooling service are activated by adjusting the DIP-Switch (**SW1**) of the control panel of the heat pump.

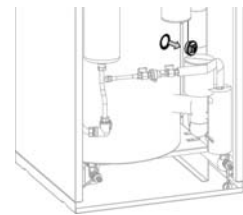
## 5 OPTIONAL ACCESSORIES

In order to complete the features offered by the **FUSION** hydraulic tank module, **DOMUSA TEKNIK** offers a wide range of optional accessories that can be integrated **inside** it. The following sections describe the correct assembly and connection of these accessories.

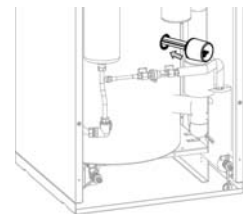
### 5.1 Assembly and connection of a backup heater for DHW (E1)

The **FUSION** hydraulic module allows the assembly of a heating heater for DHW in the outlet provided for this in the storage tank. With this heater, it will be possible to obtain Domestic Hot Water production temperatures exceeding 50 °C, enabling the necessary temperatures to be reached for the correct execution of the function for protection against Legionella bacteria. For the assembly, remove the socket cap and seal the heater on it:

1.- Disassemble and remove the plug from the socket indicated in the figure.

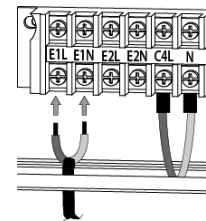


2.- Assemble the heater supplied with the kit in its place,



making sure to seal it correctly.

3.- Connect the power cable, supplied with the kit, to the Dual Clima heat pump.



The electrical connection of the heater will be made between terminals **E1L** and **E1N** (neutral) of the **DUAL CLIMA** heat pump components. To do this, an electrical hose (supplied in the DOMUSA TEKNIK heater kit) should be carried from the **FUSION** module to the heat pump, located on the outside. The hydraulic module has a series of cable ducts in its roof, through one of which it will be possible to remove the hose from inside the equipment.

The relay that activates the electrical heater has a maximum capacity of 20 A of consumption. Therefore, to connect heaters exceeding 4,500 W, a contactor should be interposed between the terminals of the power terminal and the heater.

**IMPORTANT:** When working on the electrical installation of the heat pump, make sure that it is disconnected from the electrical network.

# FUSION HE

## 5.2 Assembly and connection of a backup heater for Heating (E2)

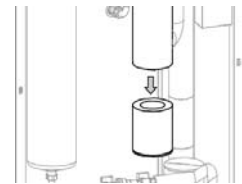
The **FUSION** hydraulic module allows the assembly of a heating element in the socket provided for this purpose inside. With this heater, the required comfort features will be increased as required by external weather conditions.

For assembly, first cut the insulating shell that covers the socket cap, remove the plug, seal the heater in place and, finally, cover the heater cover with the previous shell:

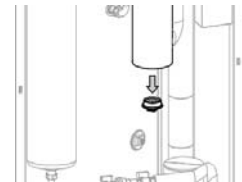
1.- Cut the insulating shell that covers the heater socket.



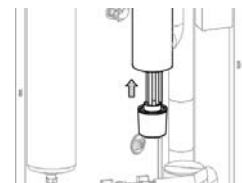
2.- Remove the insulating shell.



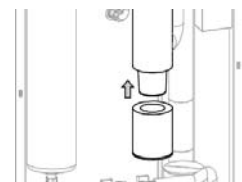
3.- Disassemble and remove the 1 1/4" chrome cap.



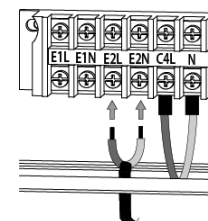
4.- Assemble and seal the heater in the socket.



5.- Reassemble the insulation shell, making sure to cover the heater cover correctly. Provide a hole in the shell to remove the power cable.



6.- Connect the power cable, supplied with the kit, to the Dual Clima heat pump.



The electrical connection of the heater will be made between terminals **E2L** and **E2N** (neutral) of the **DUAL CLIMA** heat pump components. To do this, an electrical hose (supplied in the DOMUSA TEKNIK heater kit) should be carried from the **FUSION** module to the heat pump, located on the outside. The hydraulic module has a series of cable ducts in its roof, through one of which it will be possible to remove the hose from inside the equipment.

The relay that activates the heater has a maximum capacity of 20 A of consumption. Therefore, to connect heaters exceeding 4,500 kW, a contactor should be interposed between the terminals of the power terminal and the heater.

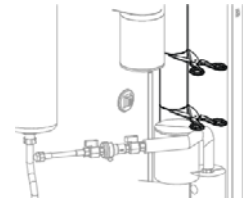
**IMPORTANT:** When working on the electrical installation of the heat pump, make sure that it is disconnected from the electrical network.

### 5.3 Assembly and connection of a backup pump (C6)

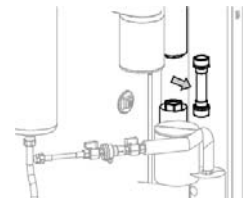
The **FUSION** hydraulic module allows the assembly of a circulation pump (**C6**) to increase the water flow rate of the machine where necessary, in addition to that obtained by the internal pump of the same (**C4**). Circulation pump **C6** operates in parallel with the internal pump of the **DUAL CLIMA** heat pump only when it is operating in Heating or Cooling mode.

For installation, a spool is installed in the return pipe of the heating/cooling system inside the **FUSION** module for assembly of the optional pump offered by DOMUSA TEKNIK. To do this, first cut the insulating shell that covers the spool, disassemble it and seal the pump in place:

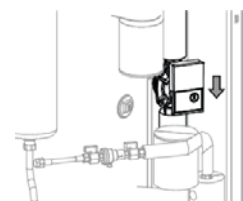
- 1.- Cut the insulating shell covering the spool and remove it, as indicated in the figure.



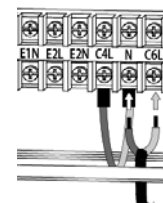
- 2.- Disassemble the spool and remove it.



- 3.- Assemble the circulation pump in place, taking into account the direction of flow indicated in the figure and making sure that the connections are sealed.



- 4.- Connect the power cable, supplied with the kit, to the Dual Clima heat pump.



The electrical connection of the pump will be made between terminals **C6L** and **C6N/N** (neutral) of the heat pump components. To do this, an electrical hose (supplied in the **DOMUSA TEKNIK** pump kit) should be carried from the **FUSION** module to the heat pump, located on the outside. The hydraulic module has a series of cable ducts in its roof, through one of which it will be possible to remove the hose from inside the equipment.

**IMPORTANT:** When working on the electrical installation of the heat pump, make sure that it is disconnected from the electrical network.

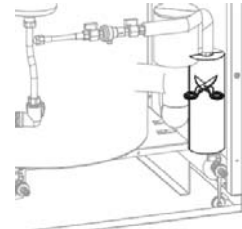
# FUSION HE

## 5.4 Heating expansion vessel

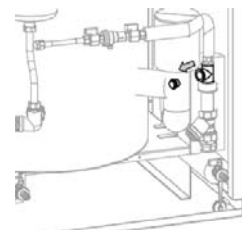
The **DUAL CLIMA** heat pump incorporates an expansion vessel with capacity for 2 litres by default. In the event that it is necessary to increase this capacity, due to the total amount of water in the Heating/Cooling system, the **FUSION** hydraulic module allows the installation of an 8-litre expansion vessel kit (optionally supplied) inside it.

For its correct assembly inside the **FUSION** module, once it is ensured that the heating/cooling system is empty, please carefully follow the steps indicated in the following figures:

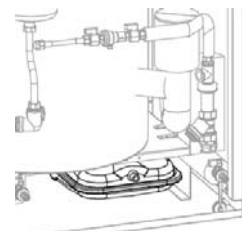
- 1.- Cut the insulation to access the plug of the expansion vessel socket, located above the water filter (see "*List of components*"). Cut the area in such a manner that the removed insulation can be reused.



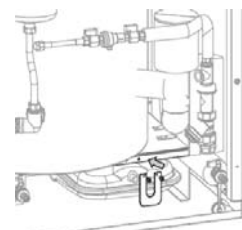
- 2.- Disassemble the cap from the expansion vessel socket.



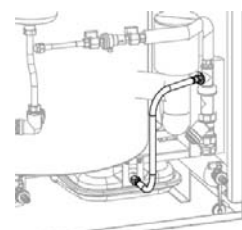
- 3.- Place the expansion vessel under the base of the bottom right of the module, as indicated in the figure, with the socket facing towards the front and upwards.



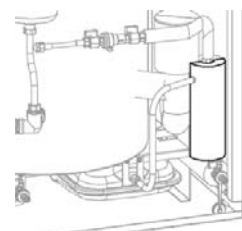
- 4.- Fix the expansion vessel to the base of the module, using the support plate and the screws supplied with the kit, as indicated in the figure.



- 5.- Connect the expansion vessel and the socket provided in the module, using the hose supplied with the kit, making sure to seal both ends of the connection correctly.



- 6.- Replace the insulation around the entire area where it was previously removed, making sure to cover all the components exposed to possible condensation.



**IMPORTANT:** Before proceeding with the assembly of the expansion vessel kit inside the module, make sure that the Heating/Cooling system is empty.

## 6 RECYCLING AND DISPOSAL

### Uninstallation

This product should be uninstalled by authorised personnel for the handling of fluorinated gases.

The heat pump contains R410A refrigerant. Any leakage of refrigerant into the atmosphere should be avoided.

### Recycling

For recycling or disposal, the heat pump must be taken to a waste collection point. Contact qualified personnel for the handling of fluorinated gases. Contact the installer or the local authority for more information.

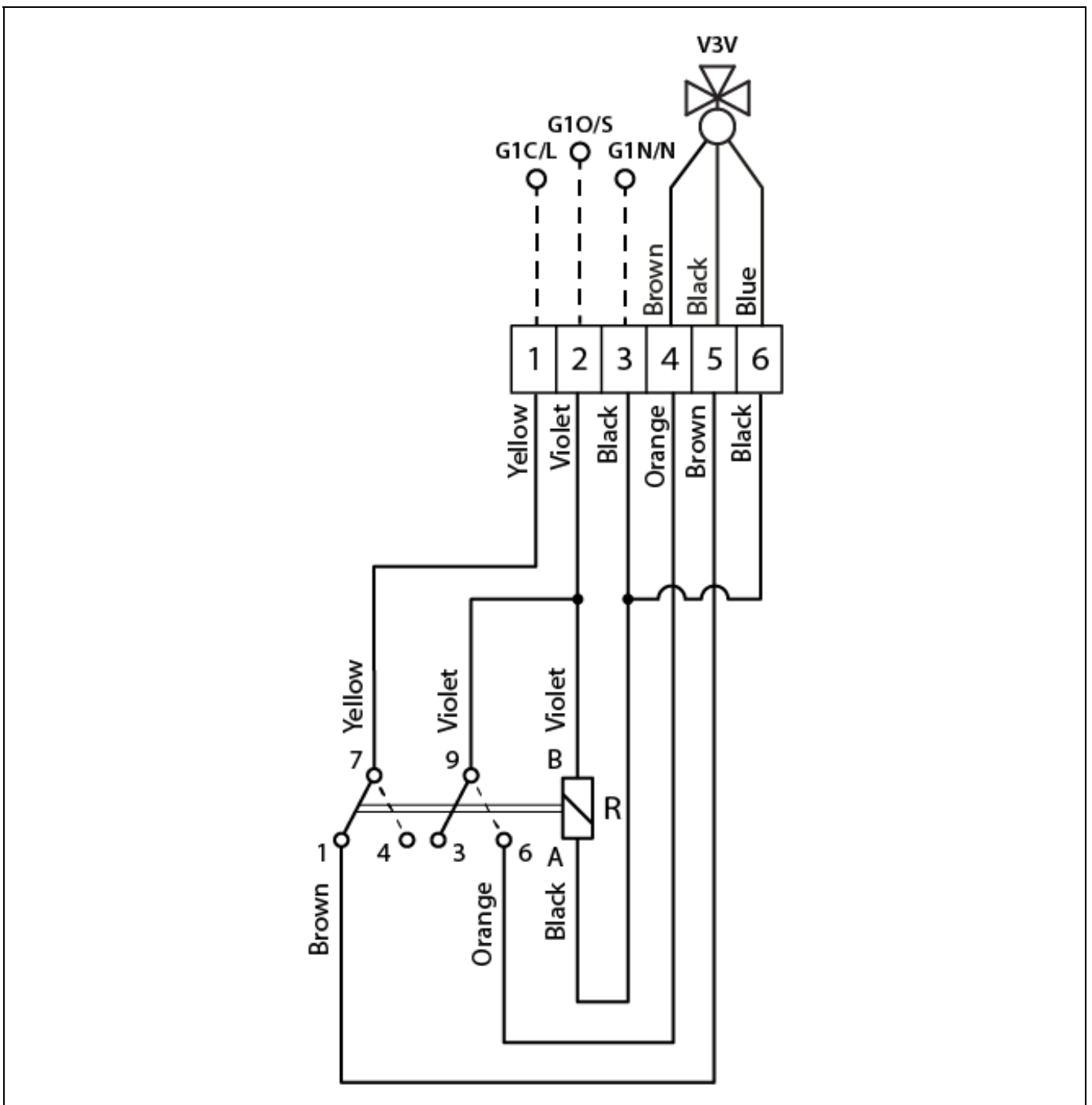
### Disposal

Do not attempt to uninstall this product on your own.

The uninstallation and treatment of the refrigerant, oil and other components should be carried out in accordance with the local and national legislation. The complete equipment, including the compressor and the oil contained, should be disposed of at a waste collection point, as it may contain refrigerant waste.

All refrigerant should be removed and returned to the manufacturer for recycling or disposal.

7 ELECTRICAL DIAGRAM



**V3V:** 3-way reversing valve.

**R:** Relay.

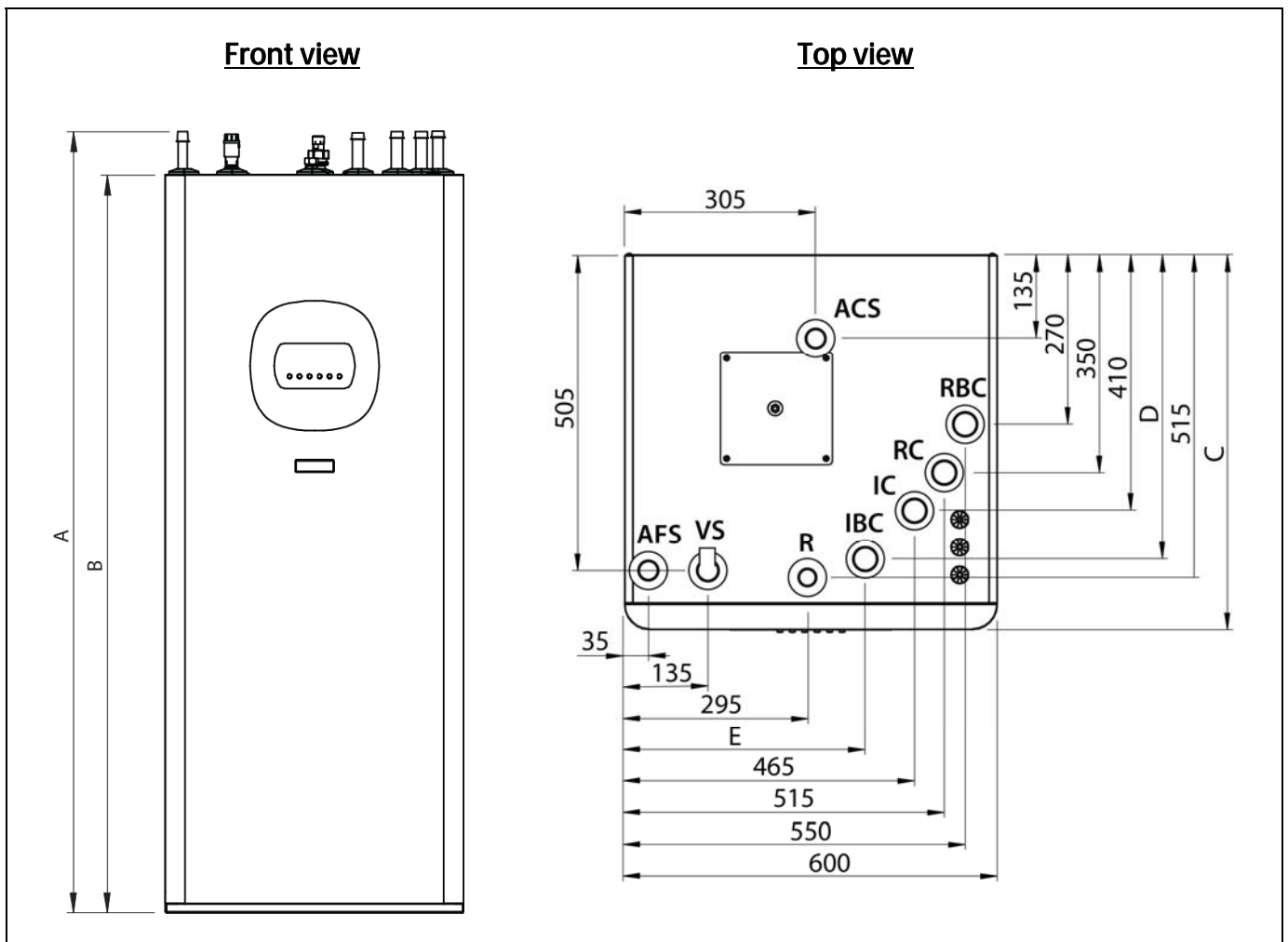
**G1C/L:** Heat Pump DHW signal (NC).

**G1O/S:** Heat Pump Heating signal (NO).

**G1N/N:** Heat Pump common signal (Neutral).



**8 DIAGRAMS AND MEASUREMENTS**



		FUSION HE 150 (mm)	FUSION HE 200 (mm)	FUSION HE 300 (mm)
Total height	A	1560	1965	1995
Rack height	B	1475	1880	1910
Bottom	C	600	600	650
IBC	D	485	485	490
IBC	E	390	390	375

**IC:** Heating/Cooling Flow, Ø22 (fitting 1" M).

**RC:** Heating/Cooling Return, Ø22 (fitting 1" M).

**IBC:** Heat Pump Flow, Ø22 (fitting 1" M).

**RBC:** Heat Pump Return, Ø22 (fitting 1" M).

**ACS:** Domestic Hot Water Outlet, 1/2" M.

**AFS:** Domestic Cold Water Inlet, Ø18 (fitting 3/4" M).

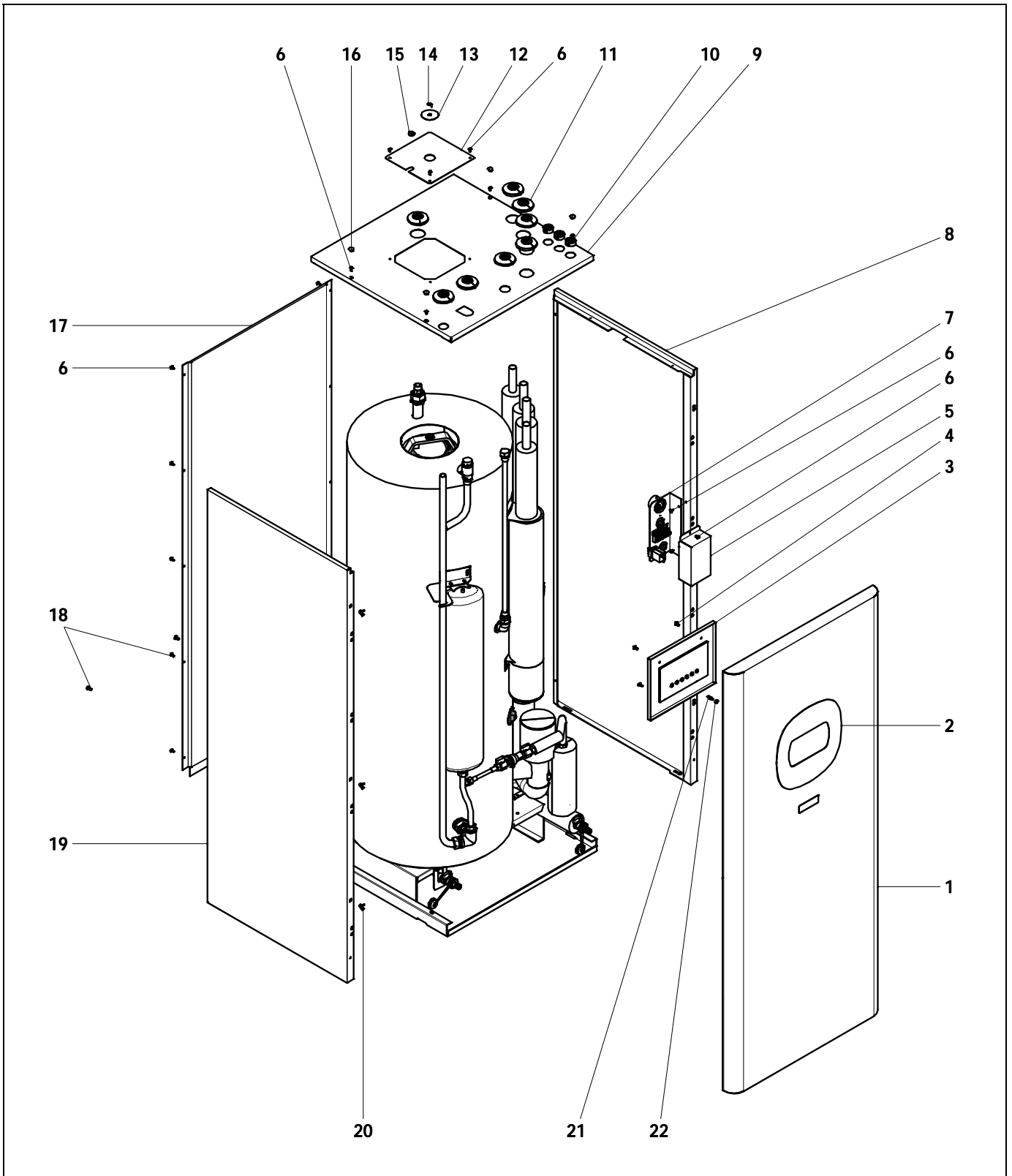
**R:** DHW Recirculation Socket, 1/2" M.

**VS:** DHW Safety Valve, 1/2" F.

# FUSION HE

## 9 SPARE PARTS LIST

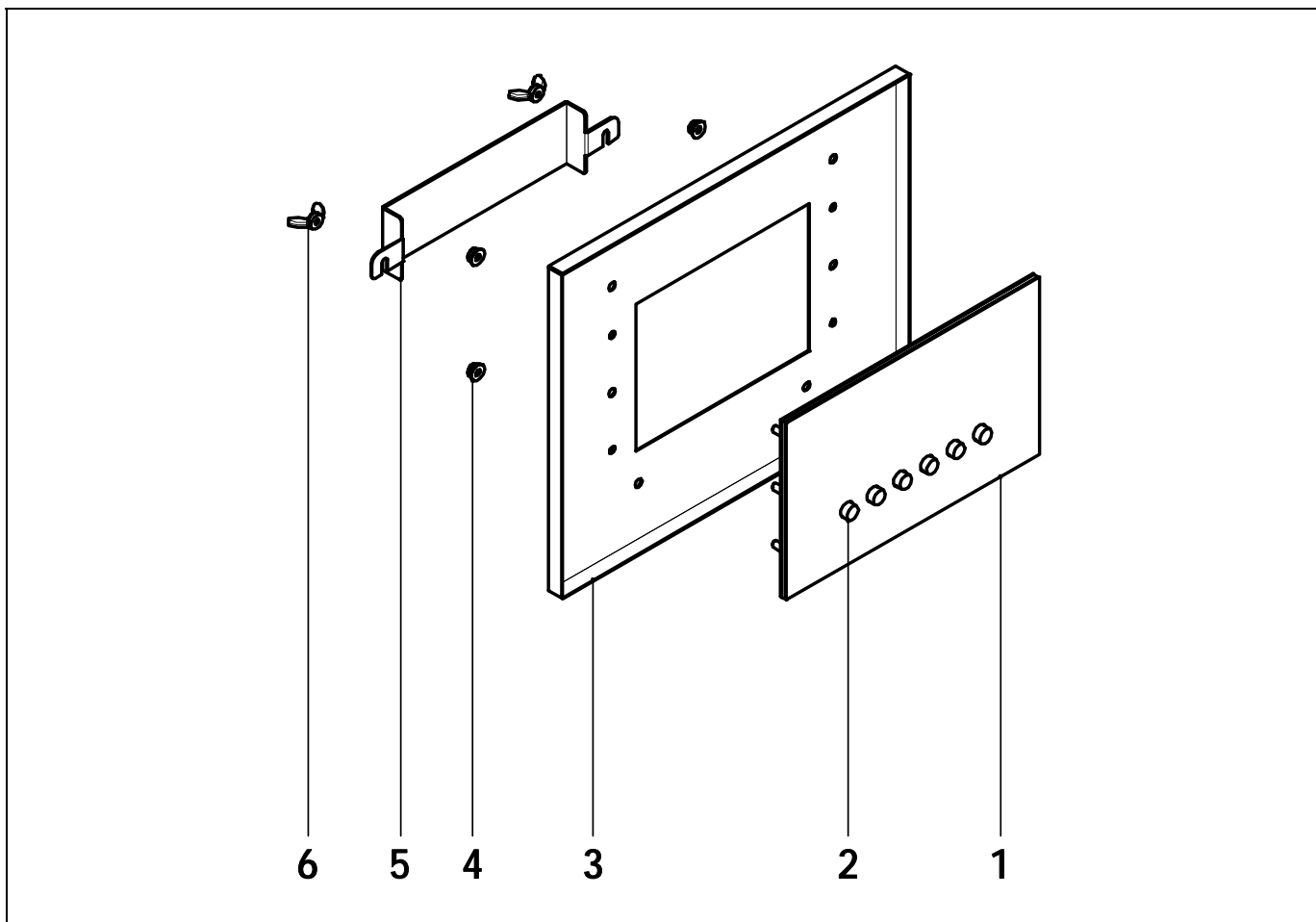
### Jackets



<b><u>N. Code</u></b>	<b><u>Name</u></b>
1	SEXT000498 FRONT JACKET FUSION HE 150
	SEXT000553 FRONT JACKET FUSION HE 200
	SEXT000560 FRONT JACKET FUSION HE 300
2	SEXT000646 FUSION BOARD TRIM
3	SELEDCL000 FUSION MAIN BOARD
4	CTOR000040 ZINC-PLATED ROUND-HEADED SCREW PHILLIP DIN-7985 M5x10
5	SEPO003057 ELECTRICAL BOARD COVER
6	CTOR000073 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP WITH RIBBED WASHER 3.9x9.5
7	SELEDCL001 ELECTRICAL SHEET FUSION
8	SEXT000447 RIGHT SIDE JACKET FUSION HE 150
	SEXT000455 RIGHT SIDE JACKET FUSION HE 200
	SEXT000462 RIGHT SIDE JACKET FUSION HE 300
9	SEXT000449 TOP JACKET FUSION HE 150/200
	SEXT000853 TOP JACKET FUSION HE 300
10	CFER000083 CABLE GROMMET SR1707 110539
11	CFER000314 PIPE PLASTIC TRIM, WHITE Ø22
12	SEPO003016 ACCESS COVER
13	SEPO003063 TOP COVER WASHER
14	CTOR000092 ZINC-PLATED HEX-NUT DIN-934 M8
15	CFER000187 CABLE GROMMET A0113 FOR Ø12
16	CFER000138 WHITE CAP Ø10.75 PGO-126/10
17	SEPO003014 BACK JACKET FUSION HE 150
	SEPO003022 BACK JACKET FUSION HE 200
	SEPO003025 BACK JACKET FUSION HE 300
18	CTOR000198 TRILOBULAR THREAD FORMING SCREW PHILIPS HEAD M5x10
19	SEXT000446 LEFT SIDE JACKET FUSION HE 150
	SEXT000454 LEFT SIDE JACKET FUSION HE 200
	SEXT000463 LEFT SIDE JACKET FUSION HE 300
20	CFER000261 SRV LATCH SPRING
21	CTOE000355 LATCH PIN
22	CTOR000089 ZINC-PLATED HEX-NUT WITH WASHER DIN-6923 M4

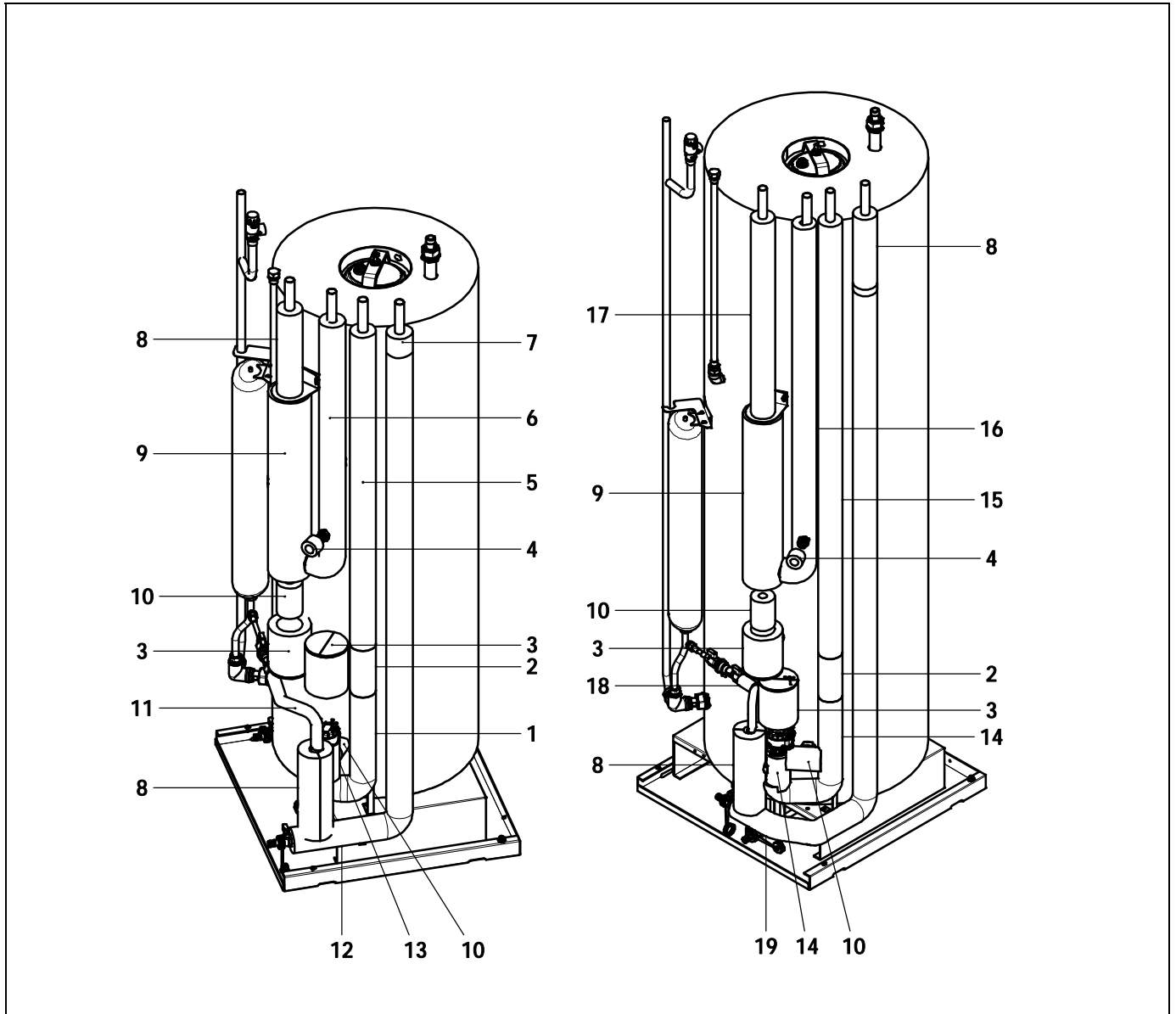
# FUSION HE

## Main board



<u>N.</u>	<u>Code</u>	<u>Name</u>
1	SCON002098	BOARD SUB-UNIT
2	SOPE000084	PAINTED EVOLUTION RC PUSH-BUTTON
3	SCHA012936	ELECTRICAL BOX
4	CTOR000089	ZINC-PLATED HEX-NUT WITH WASHER DIN-6923 M4
5	SCHA013293	SUPPORT COVER
6	CTOR000306	ZINC-PLATED WING NUT M4

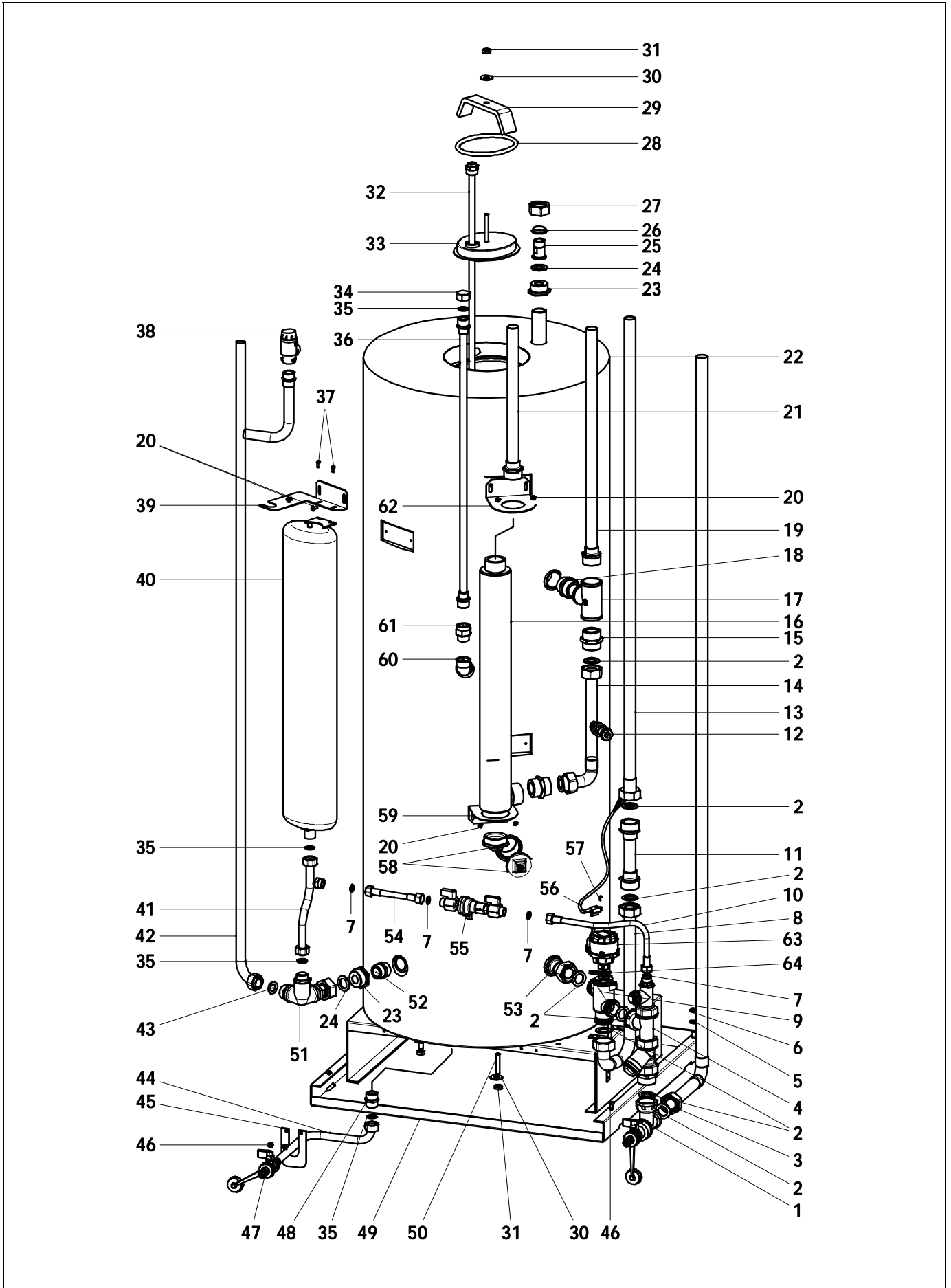
**Insulating parts**



<u>N.</u>	<u>Code</u>	<u>Name</u>	<u>N.</u>	<u>Code</u>	<u>Name</u>
1	SAIS000282	PIPE INSULATION SHELL 19x22	10	SAIS000290	PIPE INSULATION SHELL 19x22
2	SAIS000281	PIPE INSULATION SHELL 19x22	11	SAIS000287	PIPE INSULATION SHELL 9x12
3	SCON002011	VALVE AND DRUM COVER FUSION	12	SAIS000283	PIPE INSULATION SHELL 19x22 FUSION HE 150
4	SAIS000285	PIPE INSULATION SHELL 9x22		SAIS000297	PIPE INSULATION SHELL 19x22 FUSION HE 200
5	SAIS000280	PIPE INSULATION SHELL 19x22 FUSION HE 150	13	SAIS000288	PIPE INSULATION SHELL 19x22
	SAIS000295	PIPE INSULATION SHELL 19x22 FUSION HE 200	14	SAIS000301	PIPE INSULATION SHELL 19x22
6	SAIS000279	PIPE INSULATION SHELL 19x22 FUSION HE 150	15	SAIS000302	PIPE INSULATION SHELL 19x22
	SAIS000296	PIPE INSULATION SHELL 19x22 FUSION HE 200	16	SAIS000300	PIPE INSULATION SHELL 19x22
7	SAIS000290	PIPE INSULATION SHELL 19x22 FUSION HE 200	17	SAIS000299	PIPE INSULATION SHELL 19x22
8	SAIS000278	PIPE INSULATION SHELL 19x22 FUSION HE 150	18	SAIS000305	PIPE INSULATION SHELL 9x12
	SAIS000294	PIPE INSULATION SHELL 19x22 FUSION HE 200	19	SAIS000297	PIPE INSULATION SHELL 19x22
9	SAIS000284	PIPE INSULATION SHELL 19x60		RAIS000013	ST 50x3 INSULATING TAPE

# FUSION HE

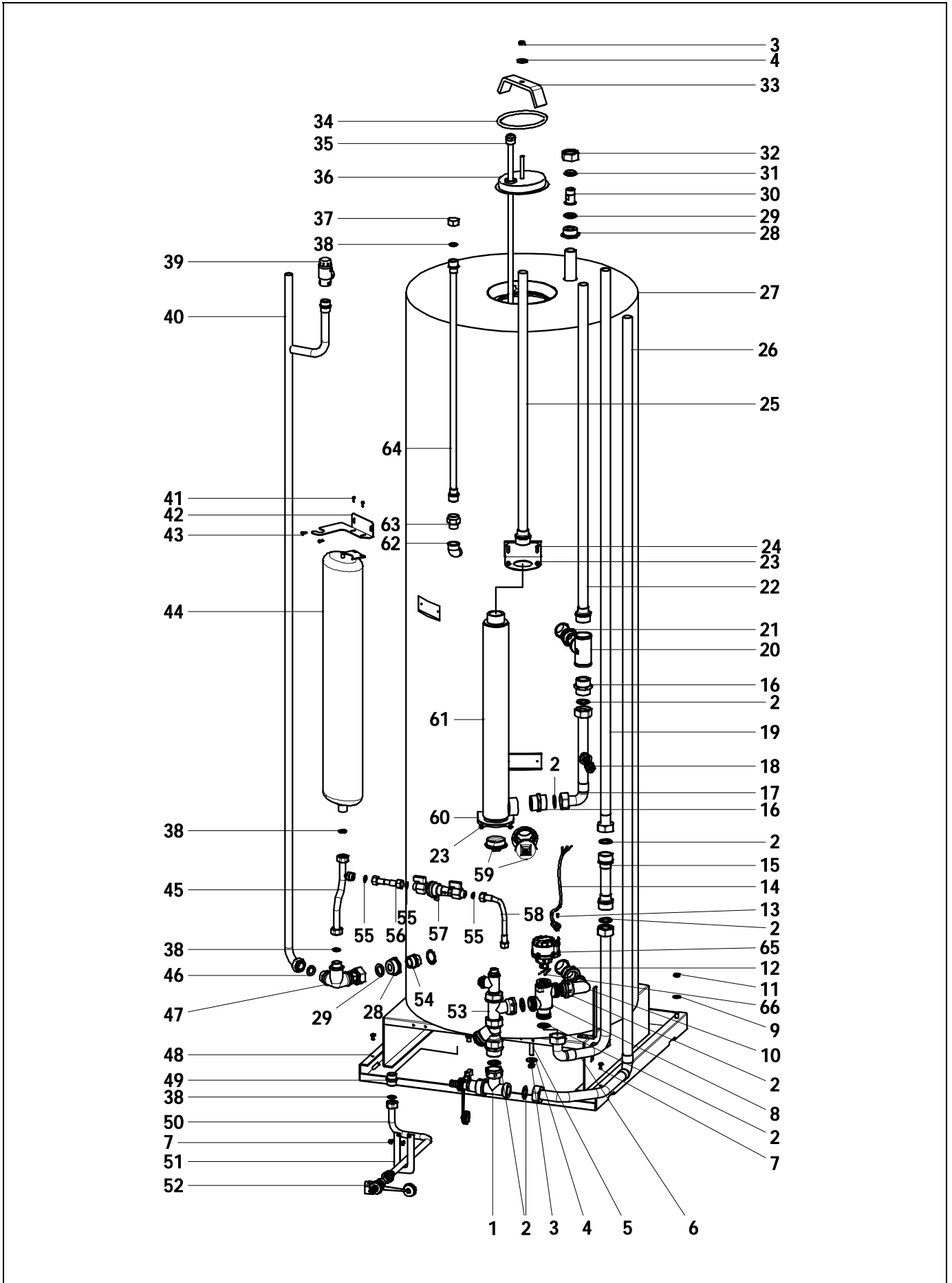
## Pipe fittings FUSION HE 150/200



<u>N. Code</u>	<u>Name</u>	<u>N. Code</u>	<u>Name</u>
1	SCON002016 SUB-UNIT	32	SCON002104 TEMPERATURE SENSOR POCKET FUSION HE 150
2	CFOV000162 BELPA GASKET CSA-50 30x20x3 (1")	SCON002105	TEMPERATURE SENSOR POCKET FUSION HE 200
3	SCOB012917 BOILER RETURN FUSION HE 150	33	SCON001191 ELIPTIC CAP
	SCOB012922 BOILER RETURN FUSION HE 200	34	CFOL000054 BRASS FEMALE CAP 1/2"
4	SCON002013 V3V SUB-UNIT	35	CFOV000160 BELPA GASKET CSA-50 18.5x12x2 (1/2")
5	CTOR000103 ZINC-PLATED FLAT WASHER DIN-125A M8	36	SCOB012919 RECIRCULATION
6	CTOR000079 ZINC-PLATED HEX-NUT DIN-934 M7	37	CTOR000091 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP DIN-7981 3.2x9.5
7	CFOV000159 TRANSDUCER GASKET 15x8x2 PL/709-P	38	CVAL000010 PRESSURE RELIEF VALVE FF 1/2" SET TO 7 bar
8	SCOB012913 PIPE TO V3V	39	SCHA013144 DHW EXPANSION VESSEL SUPPORT
9	CVAL000068 3-WAY DIVERTER VALVE 1"	40	CFOV000068 DHW EXPANSION VESSEL 4 L
10	SCOB012918 DISCONNECTOR OUTLET PIPE	41	SCOB012911 DHW ESPANSION VESSEL PIPE
11	SCOB012914 PUMP SOCKET	42	SCOB012907 DHW INLET FUSION HE 150
12	CELC000050 THERMOMANOMETER INTAKE 1/2"	SCOB012926	DHW INLET FUSION HE 200
13	SCOB012915 RETURN FUSION HE 150	43	CFOV000158 BELPA GASKET CSA-50 24x15x2 (3/4")
	SCOB012921 RETURN FUSION HE 200	44	SCOB012900 DRAINAGE
14	SCOB012901 PIPE TO MANIFOLD	45	SCHA013420 DRAINAGE SUPPORT
15	CTOE000030 REINFORCED HEXAGONAL NIPPLE 1" S2379	46	CTOR000198 TRILOBULAR THREAD FORMING SCREW PHILIPS HEAD M5x10
16	SCON001896 BACKUP HEATER DRUM	47	CVAL000034 DRAINAGE TAP WITH CHAIN M 1/2"
17	CFOL000034 BRASS FEMALE TEE 1"	48	CFOL000005 BRASS NIPPLE 1/2"
18	CFOL000007 HEXAGONAL NIPPLE 1"	49	SCON001891 WELDED BASE
19	SCOB012912 COIL OUTLET FUSION HE 150	50	CTOR000274 BLACK ALLEN THREADED-BOLT DIN-913 M8x40
	SCOB012920 COIL OUTLET FUSION HE 200	51	SCON002012 DHW INLET SUB-UNIT
20	CTOR000073 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP WITH RIBBED WASHER 3.9x9.5	52	CFOL000006 BRASS NIPPLE 3/4"
21	SCOB012902 DRUM OUTLET FUSION HE 150	53	SCOB012970 PIPE TO V3V
	SCOB012926 DRUM OUTLET FUSION HE 200	54	SCOB012909 DISCONNECTOR INLET PIPE
22	RCON000980 INSULATED CYLINDER FUSION HE 150	55	CVAL000023 DISCONNECTOR
	RCON000981 INSULATED CYLINDER FUSION HE 200	56	SCON002117 V3V CABLE
23	CTOE000072 BRASS HEXAGONAL BUSH WITH FLANGE 1"x3/4" PL/319-P	57	CTOR000307 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP DIN-7981 2.2x6.5
24	CFER000219 WRAS SILICON GASKET 30x20x3	58	CFOL000020 CHROME-PLATED PLUG M 1 1/4"
25	CTOE000071 HEXAGON NIPPLE WITH FLANGE 1/2" PL/318-P	59	SCHA013142 FIXING RING
26	CFOV000064 PTFE BOTTOM GASKET PL/317-P	60	CFOL000029 BRASS ELBOW M-F 1/2"
27	CFOL000003 BRASS NUT 25x1"	61	CFOV000193 BLACK PLASTIC DIELECTRIC FITTING M-F 1/2"
28	COTR000006 O-RING Ø108x7 EPDM 80 PEROX	62	SCHA013487 FIXING RING
29	SOPE000091 ZINC-PLATED CYLINDER CAP FIXING BRIDGE	63	CVAL000069 V3V 1" MOTOR
30	CTOR000080 ZINC-PLATED LARGE FLAT WASHER DIN-9021 M8	64	CVAL000070 V3V 1" FIX CLIP
31	CTOR000092 ZINC-PLATED HEX-NUT DIN-934 M8		

# FUSION HE

## Pipe fittings FUSION HE 300

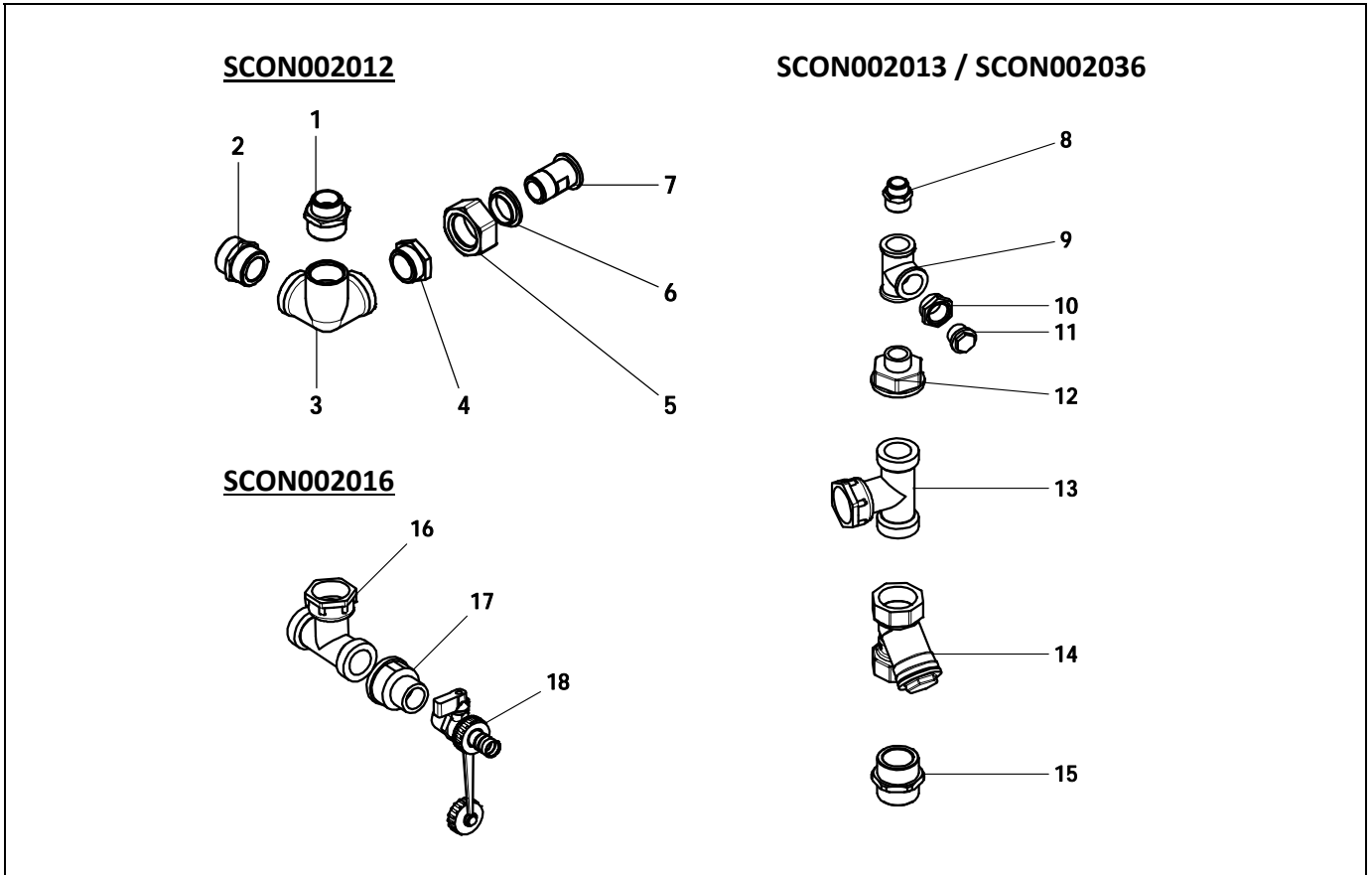




<b>N. Code</b>	<b>Name</b>	<b>N. Code</b>	<b>Name</b>
1	SCON002016 SUB-UNIT	43	CTOR000113 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP DIN-7981 3.9x9.5
2	CFOV000162 BELPA GASKET CSA-50 30x20x2 (1")	44	CFOV000068 DHW EXPANSION VESSEL 4 L
3	CTOR000092 ZINC-PLATED HEX-NUT DIN-934 M8	45	SCOB012911 DHW EXPANSION VESSEL PIPE
4	CTOR000080 ZINC-PLATED LARGE FLAT WASHER DIN-9021 M8	46	CFOV000158 BELPA GASKET CSA-50 24x15x2 (3/4")
5	CTOR000274 BLACK ALLEN THREADED-BOLT DIN-913 M8x40	47	SCON002012 DHW INLET SUB-UNIT
6	SCOB012987 PIPE TO V3V	48	SCON001947 WELDED BASE
7	CTOR000198 TRILOBULAR THREAD FORMING SCREW PHILIPS HEAD M5x10	49	CFOL000005 BRASS NIPPLE 1/2"
8	CVAL000068 3-WAY DIVERTER VALVE 1"	50	SCOB012984 DRAINAGE
9	CTOR000103 ZINC-PLATED FLAT WASHER DIN-125A M8	51	SCHA013572 DRAINAGE SUPPORT FUSION HE 300
10	CFOL000126 ELBOW WITH BRASS-NUT MALE THREAD 1"-LOOSENUT 1"	52	CVAL000034 DRAINAGE TAP WITH CHAIN M 1/2"
11	CTOR000079 ZINC-PLATED HEX-NUT DIN-934 M7	53	SCON002036 V3V SUB-UNIT
12	CFOL000070 HEXAGONAL REDUCING UNION M-F 1"	54	CFOL000006 BRASS NIPPLE 3/4"
13	CTOR000307 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP DIN-7981 2.2x6.5	55	CFOV000159 TRANSDUCER GASKET 15x8x2 PL/709-P
14	SCON002117 V3V CABLE	56	SCOB012985 DISCONNECTOR INLET PIPE
15	SCOB012914 PUMP SOCKET	57	CVAL000023 DISCONNECTOR
16	CTOE000030 REINFORCED HEXAGONAL NIPPLE 1" S2379	58	SCOB012986 DISCONNECTOR OUTLET PIPE
17	SCOB012901 PIPE TO COLLECTOR	59	CFOL000020 CHROME-PLATED PLUG M 1 1/4"
18	CELC000050 THERMOMANOMETER INTAKE 1/2"	60	SCHA013142 FIXING RING
19	SCOB013213 RETURN	61	SCON001896 BACKUP HEATER DRUM
20	CFOL000034 BRASS FEMALE TEE 1"	62	CFOL000029 BRASS ELBOW M-F 1/2"
21	CFOL000007 HEXAGONAL NIPPLE 1"	63	CFOV000193 BLACK PLASTIC DIELECTRIC FITTING M-F 1/2"
22	SCOB013212 COIL OUTLET	64	SCOB012942 RECIRCULATION
23	CTOR000073 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP WITH RIBBED WASHER 3.9x9.5	65	CVAL000069 V3V 1" MOTOR
24	SCHA013487 FIXING RING	66	CVAL000070 V3V 1" FIX CLIP
25	SCOB013211 DRUM OUTLET		
26	SCOB013214 BOILER RETURN		
27	RCON000993 INSULATED CYLINDER FUSION HE 300		
28	CTOE000072 BRASS HEXAGONAL BUSH WITH FLANGE 1"x3/4" PL/319-P		
29	CFER000219 WRAS SILICON GASKET 30x20x3		
30	CTOE000071 HEXAGONAL NIPPLE WITH FLANGE 1/2" PL/318-P		
31	CFOV000064 PTFE BOTTOM GASKET PL/317-P		
32	CFOL000003 BRASS LOOSE NUT 25x1"		
33	SOPE000091 ZINC-PLATED CYLINDER CAP FIXING BRIDGE		
34	COTR000006 O-RING Ø108x7 EPDM 80 PEROX		
35	SCON002106 TEMPERATURE SENSOR POCKET		
36	SCON001191 ELIPTIC CAP		
37	CFOL000054 BRASS FEMALE CAP 1/2"		
38	CFOV000160 BELPA GASKET CSA-50 18.5x12x2 (1/2")		
39	CVAL000010 PRESSURE RELIEF VALVE FF 1/2" SET TO 7 bar		
40	SCOB013210 DHW INLET		
41	CTOR000091 ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP DIN-7981 3.2x9.5		
42	SCHA013579 DHW EXPANSION VESSEL SUPPORT		

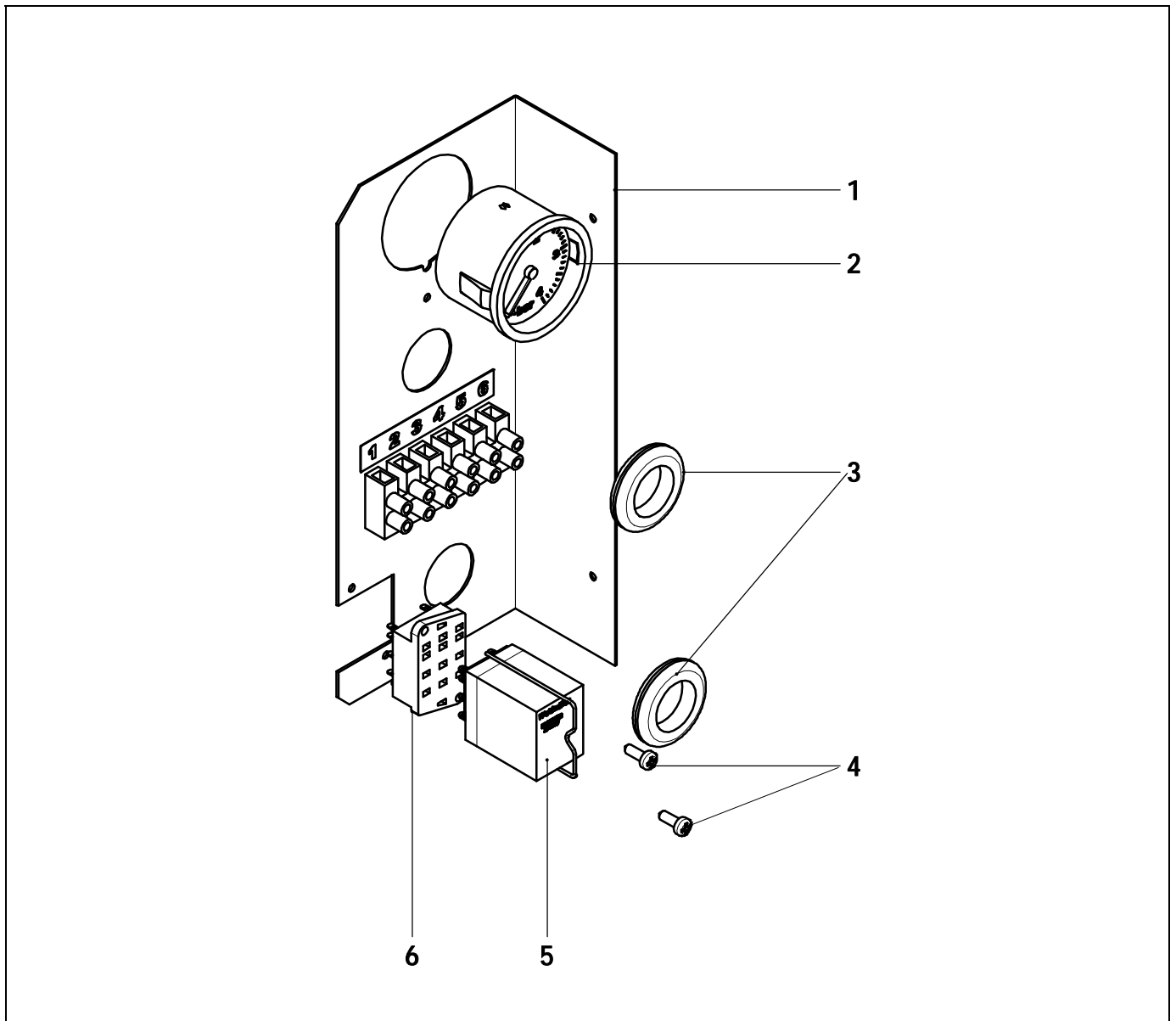
# FUSION HE

## Sub-units



<u>N.</u>	<u>Code</u>	<u>Name</u>
1	CFOL000009	BRASS NIPPLE 1/2"x3/4"
2	CFOL000006	BRASS NIPPLE 3/4"
3	CFOL000050	BRASS 3-WAY ELBOW 3/4"
4	CFOL000014	BRASS HEXAGONAL BUSH 1/2"x3/4"
5	CFOL000003	BRASS LOOSE NUT 25x1"
6	CFOV000064	PTFE BOTTOM GASKET PL/317-P
7	CTOE000071	HEXAGONAL NIPPLE WITH FLANGE 1/2" PL/318-P
8	CFOL000008	BRASS NIPPLE 3/8"x1/2"
9	CFOL000048	BRASS FEMALE TEE 1/2"
10	CFOL000024	BRASS HEXAGONAL BUSH 3/8"x1/2"
11	CFOL000055	BRASS MALE PLUG 3/8"
12	CFOL000125	BRASS REDUCING UNION 1"Fx1/2"M
13	CFOL000123	BRASS TEE MALE THREAD 1"-LOOSE NUT 1"-MALE THREAD 1"
14	CFOV000187	WATER INLET FILTER 1"
15	CFOL000007	HEXAGONAL NIPPLE 1"
16	CFOL000123	BRASS TEE MALE THREAD 1"-LOOSE NUT 1"-MALE THREAD 1"
17	CFOL000124	BRASS REDUCED SLEEVE F-F 1/2"x1"
18	CVAL000034	DRAINAGE TAP WITH CHAIN M 1/2"

**Electrical connections board**



<u>N.</u>	<u>Code</u>	<u>Name</u>
1	SCON002099	BOARD SUB-UNIT
2	CELC000144	WHITE PRESSURE GAUGE Ø40x1.5 M
3	CFER000062	CABLE GROMMET REF. 210 Ø22
4	CTOR000091	ZINC-PLATED SHEET METAL ROUND-HEADED SCREW PHILLIP DIN-7981 3.2x9.5
5	CELC000006	RELAY
6	CMAZ000145	ELECTRICAL HARNESS FUSION HE

# DOMUSA

## TEKNIK

**POSTAL ADDRESS**

Apartado 95  
20730 AZPEITIA  
Spain

**FACTORY & OFFICES**

B° San Esteban s/n  
20737 RÉGIL (Gipuzkoa)  
Spain

Tel: +34 943 813 899

[www.domusateknik.com](http://www.domusateknik.com)

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



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27/11/20