



## THERMATIC II CONTROL PANEL



Usage,  
electrical connection  
and start up instructions

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The boiler must be connected by a qualified professional. Strict compliance with these usage, electrical connection and start up instructions is a precondition for the correct operation of the boiler.

The T control panel is used on the following boilers:

- EC-10, EC-20 and EC-100.

## 1. GENERAL

### 1.1 Presentation

**The E control panel with an Thermatic regulator (user-system interface) to be fixed to the wall or integrated into the boiler control panel can be used for:**

- automatic operation of heating when the ambient temperature has been reached
- control of heating as a function of the outside temperature.
- regulation and programing of domestic hot water production (if it is present) with or without priority
- providing a frost free room temperature if the home is empty. The duration of this period may be programed up to 99 days.

**The basic delivery of the T control panel comprises**

- 1 T control panel
- 1 Thermatic regulator (user-system interface) with support to be installed in the chosen room or to be included in the control panel.
- 1 boiler sensor measuring the water temperature in the boiler
- 1 external sensor

#### Options

The following option can be ordered:

- domestic hot water sensor (package FM 45).

### 1.2 Operating principle

The T control panel can be used to program and regulate the room temperature as a function of the outside temperature by controlling the burner. The boiler thermostat must be set to a sufficiently high temperature for automatic regulation to operate correctly. The safety thermostat with auto reset (adjusted to 110°C/230°F) maintains operating safety.

In the case of domestic hot water (d.h.w.) production, domestic hot water is regulated by the regulator acting on the load pump giving priority to heating of domestic hot water.

When a request is made for heating domestic hot water, the domestic hot water priority stops the burner and the d.h.w. load pump and stops the heating pump. Under summer conditions, the boiler is not kept hot between two domestic hot water loads. The domestic hot water temperature is measured by the d.h.w. sensor.

The regulator includes the possibility of a "antilegionellosis" protection.

### 1.3 Technical characteristics

- Electrical power supply: 120V - 60 Hz
- Clock operating capacity: 2 years minimum

#### - Resistance of the external sensor in $\Omega$ (option)

Temperature in °C / °F	Resistance in Ohm	Temperature in °C / °F	Resistance in Ohm
- 20°C / -4°F	2 392 $\Omega$	4°C / 39°F	984 $\Omega$
- 16°C / 3°F	2 088 $\Omega$	8°C / 46°F	842 $\Omega$
- 12°C / 10°F	1 811 $\Omega$	12°C / 54°F	720 $\Omega$
- 8°C / 18°F	1 562 $\Omega$	16°C / 61°F	616 $\Omega$
4°C / 25°F	1 342 $\Omega$	20°C / 68°F	528 $\Omega$
0°C / 32°F	1 149 $\Omega$	24°C / 75°F	454 $\Omega$

#### - Value of water sensors in $\Omega$

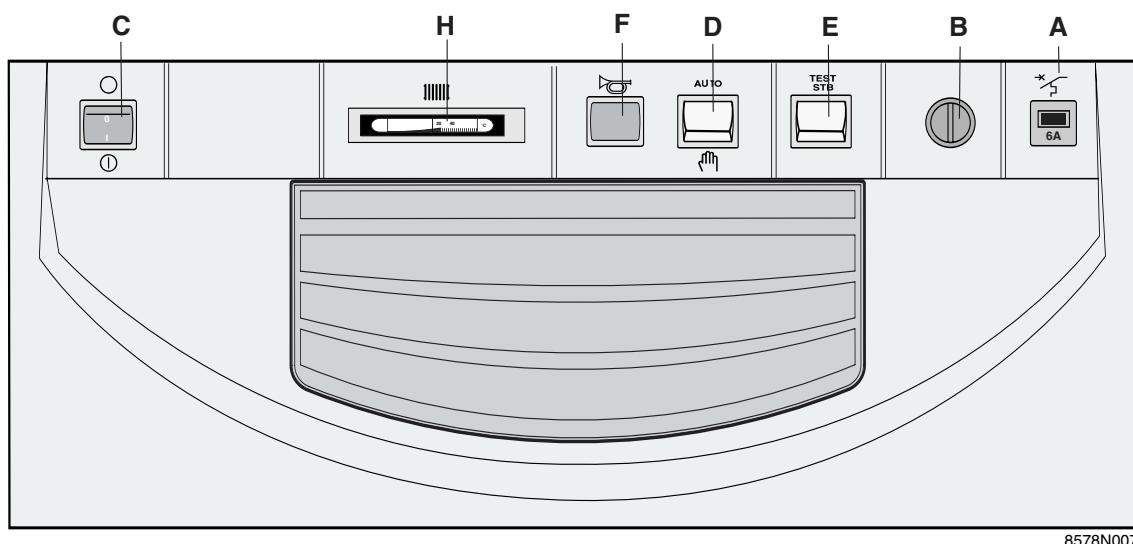
Temperature in °C / °F	Resistance in Ohm	Temperature in °C / °F	Resistance in Ohm
0°C / 32°F	32 014 $\Omega$	50°C / 122°F	3 661 $\Omega$
10°C / 50°F	19 691 $\Omega$	60°C / 140°F	2 535 $\Omega$
20°C / 68°F	12 474 $\Omega$	70°C / 158°F	1 794 $\Omega$
25°C / 77°F	10 000 $\Omega$	80°C / 176°F	1 290 $\Omega$
30°C / 86°F	8 080 $\Omega$	90°C / 194°F	941 $\Omega$
40°C / 104°F	5 372 $\Omega$		

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## 2. DESCRIPTION

### ● Control panel

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8578N007

#### A. Timed circuit breaker (6 A)

#### B. Safety HIGH LIMIT with auto reset (Set to 110°C / 230°F)

#### C. Power/Main ① /Off ○ switch.

**Note:** we recommend leaving the boiler on during the summer, particularly so that the heating pump cleaning function can remain in operation. It is preferable to use "summer" mode for the period during which the heating is to be cut off.

#### D. 2-position switch

**AUTO** : automatic operation

☞ (manual) : forced operation

#### E. "Test-STB" push button

When pushed and held in, safety **HIGH LIMIT** tests and cutoff of the heating pump.

#### F. Alarm light

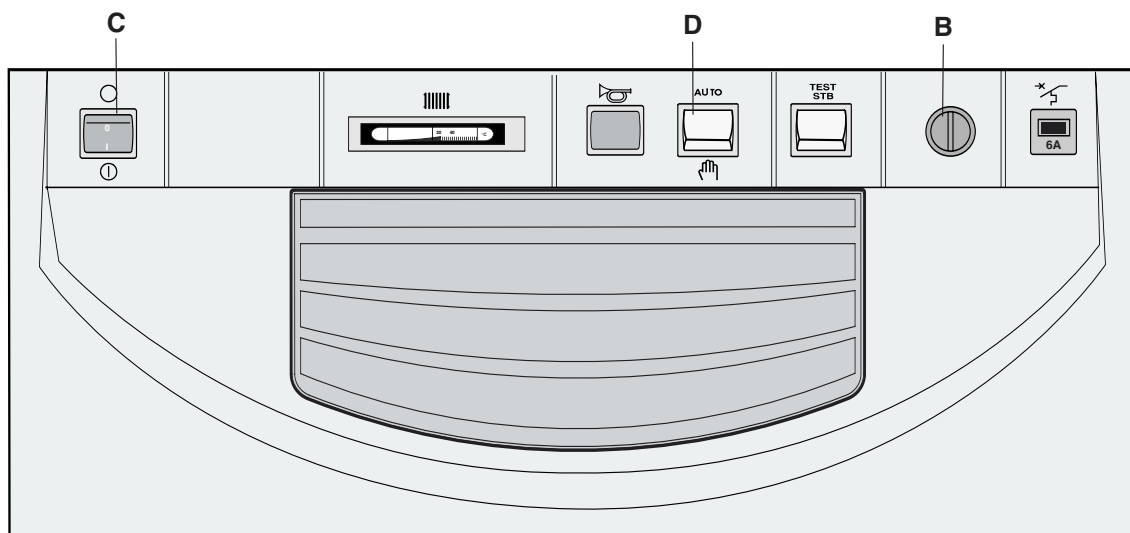
This light is disabled.

#### H. Boiler temperature gauge

### 3. STARTUP OR RESTART AFTER A PROLONGED STOP

Initial starting up shall be performed by the installer.

Before turning the boiler on, make sure that the installation is filled with water. Startup in the chronological order described below:



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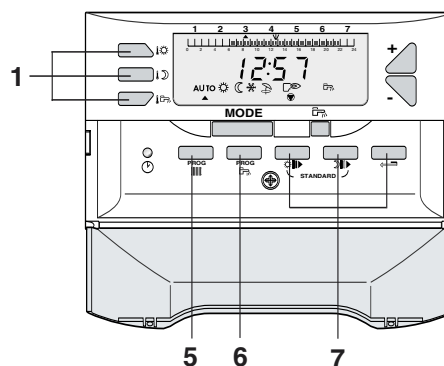
- Check that the switch **D** is in the **AUTO** position.
- Put the On/Off switch **C** into the On ① position.

#### Note

For production of domestic hot water (d.h.w. sensor connected), an automatic bleed sequence is carried out of the indirect d.h.w. exchanger for one minute by intermittent operation of the domestic hot water pump and the heating circulator pump, before changing to automatic operation mode.

This bleed sequence is only activated if the indirect d.h.w. tank temperature is greater than 25°C / 77°F.

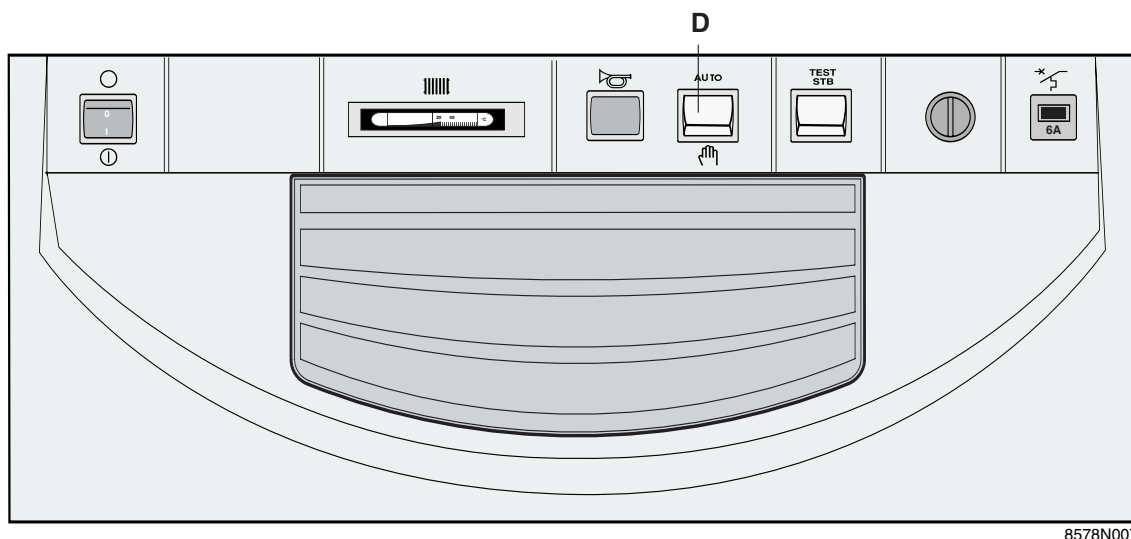
- The set temperature of the heating circuit and the domestic hot water average storage temperature (if there is an indirect d.h.w. tank) can be adjusted at any time using key **1** (see chapter 4).
- Select the operating mode using keys **5**, **6** and **7** (see chapter 2).
- Customize the heating program and the d.h.w. program as you wish if you have domestic hot water production (see chapter 6).



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## 4. CHOOSING THE OPERATING MODE



### 4.1 Automatic operation


Put the switch **D** in the **AUTO** position.

This position enables automatic regulation and operation by the Thermatic regulator.


### 4.2 "Summer" operation

Heating is automatically cut off during the summer when the outside temperature is higher than the "comfort" temperature setting for 2 hours.

The display remains identical, but the circulator pump is

permanently off. The  symbol is no longer displayed. Heating is started again when the outside temperature drops below the "comfort" temperature for 2 hours.

### 4.3 Manual operation

Put switch **D** to its position .

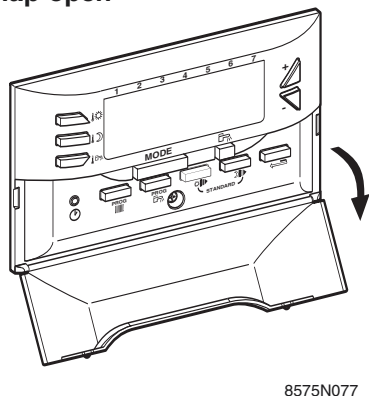
This position may be selected to make the boiler setting, for example, or if there is a problem with the electronic regulation:

- the burner is put into forced operation
- the boiler will operate according to the set temperature at the regulator.

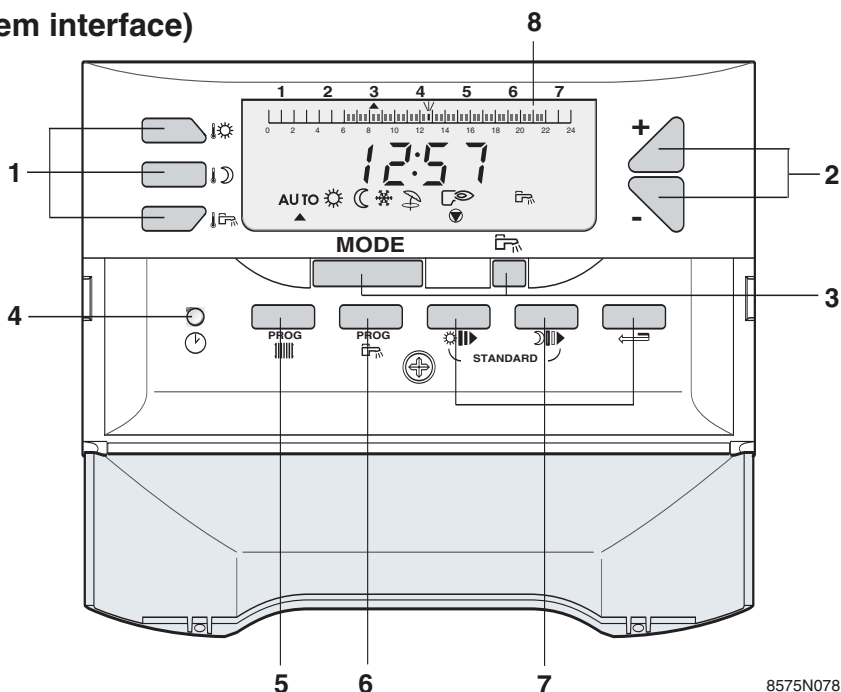
- the heating pump and the domestic hot water load pump (if there is an indirect d.h.w. tank) are started - the display is off.

## ● Thermatic regulator (user-system interface)

Flap open



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### 1. Temperature adjustment keys (green keys)

- "comfort" temperature
- "low" temperature
- "domestic hot water" temperature (if an indirect d.h.w. tank is connected)

#### Note

- When one of these keys is pressed:
- the active time program corresponding to the circuit is displayed in the graphic bar
  - the measured temperature is displayed at the right of the display.

### 2. Adjustment keys or (blue keys)

### 3. Operating mode selection keys (grey keys)

#### MODE key

To select one of the following operating modes:

- AUTO : operation according to the time program
- : forced operation at comfort temperature until midnight
- : forced operation at reduced temperature until midnight
- : frost free operation during the programmed time
- : stop manual heating, production of domestic hot water only (if an indirect d.h.w. tank is connected)

#### Key

To force heating of the domestic hot water tank outside the d.h.w. time program (if an indirect d.h.w. tank is connected).

### 4. Time and day adjustment key



### 5. Key to adjust the heating program

PROG



### 6. Key to adjust the indirect domestic hot water tank program

PROG



### 7. Programming keys

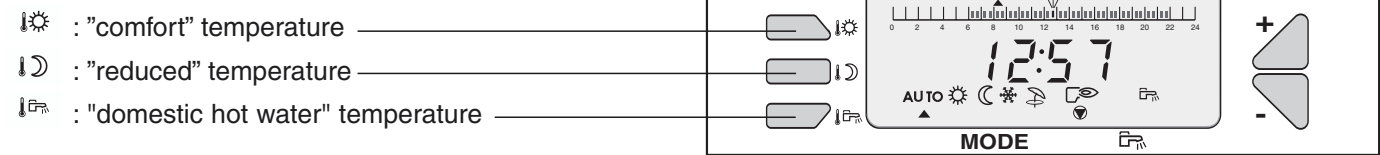
- write (in 1/2 hour periods) the "comfort" period or the indirect d.h.w. tank heating allowed period (dark area)
- write (in 1/2 hour periods) the "low" period or the indirect d.h.w. tank heating not allowed period (light area)
- return to the program graphic bar

Simultaneously press the and keys (STANDARD) for 5 seconds to reinitialize programs to factory settings: heating and d.h.w. from 6 a.m. to 10 p.m.

### 8. Program display graphic bar (12 a.m. to 12 p.m.)

"Comfort" periods are displayed in black bars at programmed "comfort" times in the graphic bar.

# 5. HEATING AND DOMESTIC HOT WATER SET TEMPERATURES



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## Heating set temperature

Temperatures for "comfort" periods (dark area in the graphic bar) and for "reduced" periods (light area in the graphic bar) can be adjusted as follows:

● Select the comfort temperature or the reduced temperature .

● Adjust the temperature using the and keys.

**Note:** the graphic bar displays the heating program for the current day for the displayed circuit.

● **End of setting:** after the setting is completed, the normal display reappears after 2 minutes or when the **MODE** key is pressed.

Tempe- rature	Setting range	Factory setting
Comfort 	5 to 30°C / 41°F to 86°F Setting in steps of 0.5°C / 1°F using  and	20°C / 68°F
Reduced temperature 	5 to 30°C / 41°F to 86°F Setting in steps of 0.5°C / 1°F using  and	16°C / 60°F

## Indirect d.h.w. tank set temperature

● Select the domestic hot water temperature using the key.

● Adjust the average domestic hot water storage temperature using the and keys.

● **End of setting:** after the setting is completed, the normal display reappears after 2 minutes or when the **MODE** key is pressed.

Tempe- rature	Setting range	Factory setting
Domestic hot water (average storage temperature)	10°C to 80°C / 50°F to 175°F Adjustment in steps of 1°C / 5°F using and	55°C / 130°F

**Note:** if there is no domestic hot water sensor, pressing this key has no effect.

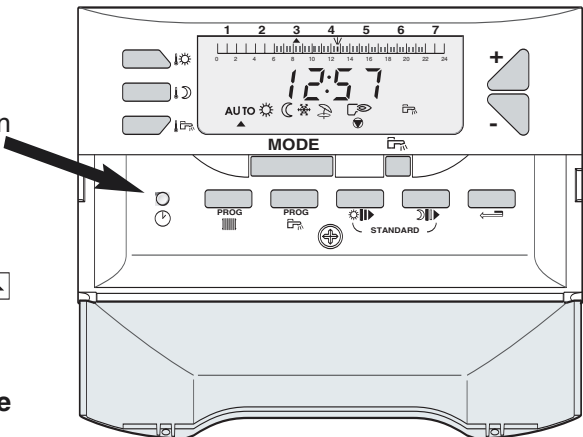
# 6. SETTING THE TIME AND DAY

- Open the flap.
- Press the clock key using the tip of a ball point pen and then adjust the time and the day using the and keys.  
Press once to make a minute by minute setting.  
Press again for hour by hour setting.  
Press a third time for day by day setting by putting the arrow in the graphic bar from 1 to 7 (1 = Monday)

**Note:**

A prolonged press on the or key increases the scrolling speed.

A fine setting can be made by making short presses.



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## 7. PROGRAMING

### 7.1 Factory programing

#### Heating program



Monday to Sunday: 6 a.m. to 10 p.m. : Comfort period



#### Indirect domestic hot water tank program

Monday to Sunday: 5 a.m. to 10 p.m. : Loading allowed



### 7.2 Program customization


Enter customized programs in the adjacent tables, then save them as follows:


● Press the **PROG**  key to select the heating program or **PROG**  to select the d.h.w. program.


● Select the day by pressing the **PROG**  or **PROG**  keys several times.

**Note:** the program chosen for every weekday is automatically copied to other days but it can be modified individually day by day.

● Write dark areas using the  key and write light areas using the  key (1/2 hour by 1/2 hour).



- **Dark areas**  are applicable to "comfort" heating or **tank heating allowed** periods.

- **Light areas**  are applicable to "reduced" or **Indirect d.h.w. tank heating not allowed** periods.

● Use the  key to come back in the event of any error.

● End of programming: Press the **MODE** key. Otherwise, the program will be validated automatically after 2 minutes.

#### Note

Pressing the  and  keys simultaneously (STANDARD) for 5 seconds reinitializes the programs to the factory settings indicated in § 6.1 above.

### Customized programs

#### ● HEATING PROGRAM

Day	"Comfort" period
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

#### ● INDIRECT DOMESTIC HOT WATER TANK PROGRAM DHW

Days	D.H.W. heating allowed
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

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## 8. MESSAGES - ALARMS

In the event of any malfunction, the following messages may appear on the display:

MESSAGE	FAULT	PROBABLE CAUSE	REMEDY
AL 50	Boiler sensor	The corresponding sensor circuit is broken or is short circuited	Switch off the electrical power supply to the boiler using the
AL 51	External sensor		On/Off switch to erase this message, and inform your fitter.
AL 52	D.h.w. sensor		However, you can operate the part of the installation concerned
AL 5A	Room sensor		in "Manual" mode. See comments below.

### Note:


If a fault occurs in a sensor, the installation continues to operate with the following limitations and displays:

### AL 50 and AL 51

The entire installation automatically changes to "Manual" mode

- The heating circulator pump runs permanently and the valve is no longer regulated electrically. It may be controlled manually if necessary.

### AL 52

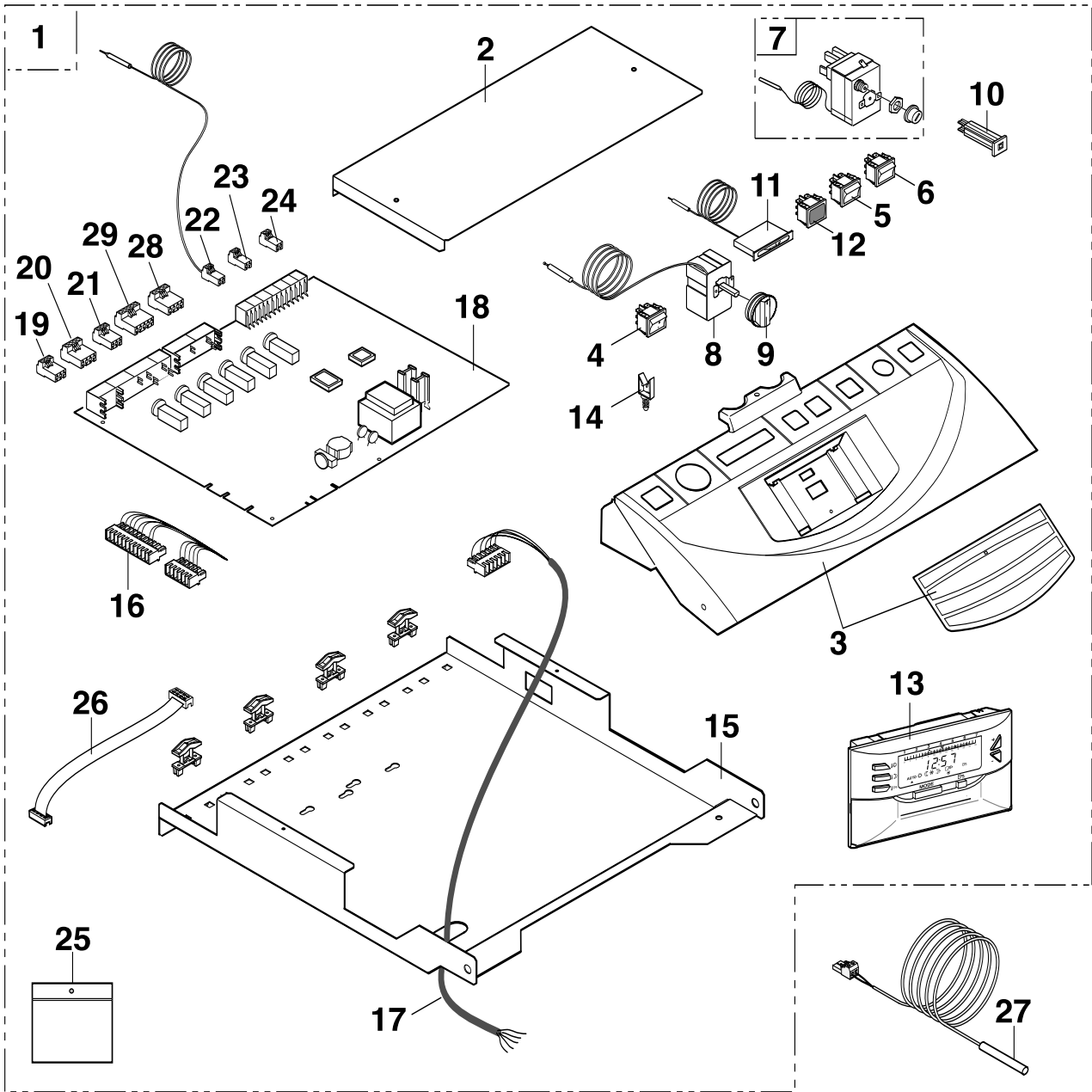
The domestic hot water is no longer heated automatically. You can continue to produce domestic hot water by changing to manual conditions using the "AUTO/  " switch - see chapter 3. The d.h.w. heating temperature is equal to the boiler temperature.

### AL 5A

Automatic operation in configuration without room sensor.

# 9. ISOMETRIC VIEWS AND SPARE PARTS LIST

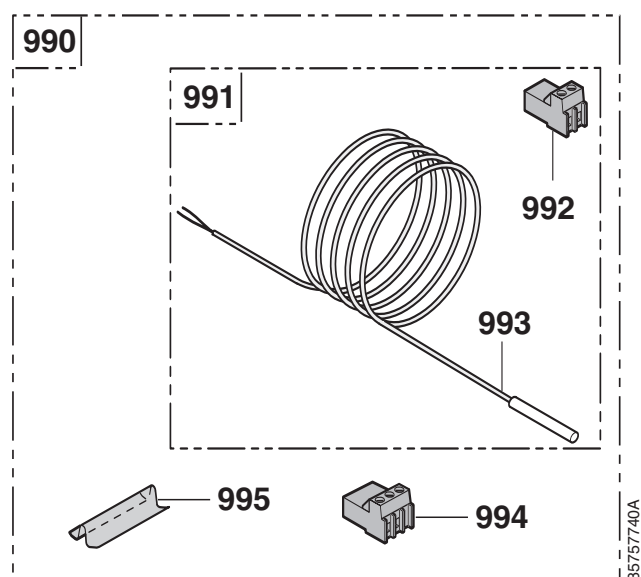
**Note :** when ordering spare parts, do not forget to provide the **code number** given in the **list** opposite the part reference.



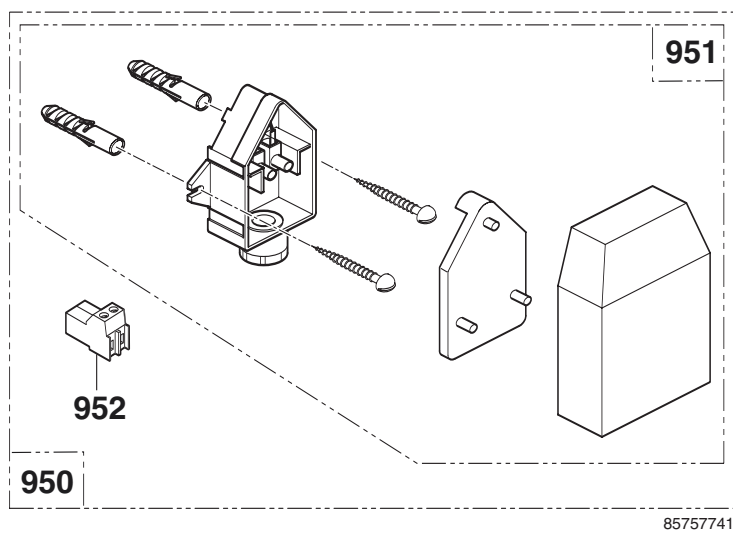
8578N027

## THERMATIC control panel

### DHW SENSOR OPTION ( PACKAGE FM 45)



### EXTERNAL SENSOR



## T control panel

Mark.	Code No.	DESCRIPTION	Mark.	Code No.	DESCRIPTION
		<b>CONTROL PANEL</b>	<b>23</b>	8575-4911	EPT2-pin connector room sensor
<b>1</b>	8578-7001	Complete Thermatic control panel	<b>24</b>	8575-4928	EPT connector RT
<b>2</b>	8578-8506	Complete Thermatic card cover	<b>25</b>	8575-5520	Control panel screw bag
<b>3</b>	9786-4039	Thermatic front panel	<b>26</b>	9655-0357	8-pin flat cable L = 300
<b>4</b>	9532-5027	Green On/Off two-pole switch	<b>27</b>	8575-4918	KVT 60 sensor - length 1 m
<b>5</b>	8500-0035	Two-pole switch			
<b>6</b>	9532-5028	Moment inverter two pole switch			<b>EXTERNAL SENSOR</b>
<b>7</b>	8500-0032	110°C safety thermostat	<b>950</b>	8575-7741	External sensor (Package FM46)
<b>8</b>	8500-0002	30-90 °C setting thermostat	<b>951</b>	9536-2450	External sensor AF60
<b>9</b>	9752-5181	Setting button	<b>952</b>	8575-4906	2-pin external sensor connector
<b>10</b>	9534-0288	Circuit breaker 4A TS710/4A			
<b>11</b>	9536-5147	Flat thermometer			<b>DHW SENSOR OPTION (PACKAGE FM 45)</b>
<b>12</b>	9521-6220	Red light	<b>990</b>	8575-7740	D.h.w. sensor (Package FM 45)
<b>13</b>	8806-7511	Thermatic module CDC 2 (user-system interface)	<b>991</b>	8575-4935	Installed d.h.w. sensor
<b>14</b>	9655-0352	WSBH-2 harness fastening	<b>992</b>	8575-4909	D.h.w. sensor 2-pin connector
<b>15</b>	8575-8019	Board supports	<b>993</b>	9536-2448	KVT 60 sensor L = 5M
<b>16</b>	8578-4905	D.H.W. harness	<b>994</b>	8575-4925	2-pin external connector d.h.w. sensor
<b>17</b>	8578-4906	Burner cable	<b>995</b>	9536-5613	Contact spring for thimble tube
<b>18</b>	8806-5565	Thermatic relay board			
<b>19</b>	8575-4905	3-pin connector power supply			
<b>20</b>	8575-4922	4-pin connector power supply VA+CS			
<b>21</b>	8575-4924	Pump 3-pin connector A/VS			
<b>22</b>	8575-4918	2-pin connector boiler sensor			

10/09/03

## 10. INSTALLER SECTION

# ASSEMBLY, ELECTRICAL CONNECTIONS & INSTALLER SETTINGS

## T control panel

This page is reserved for use by the installer

### • Assembling the control panel

Refer to the assembly sheet provided with the boiler instructions.

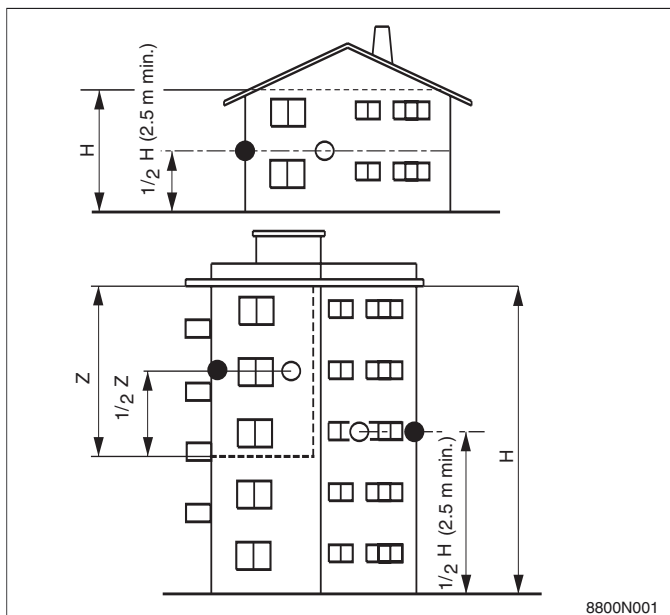
### • Installing the boiler sensor

Refer to the assembly sheet provided with the boiler instructions.

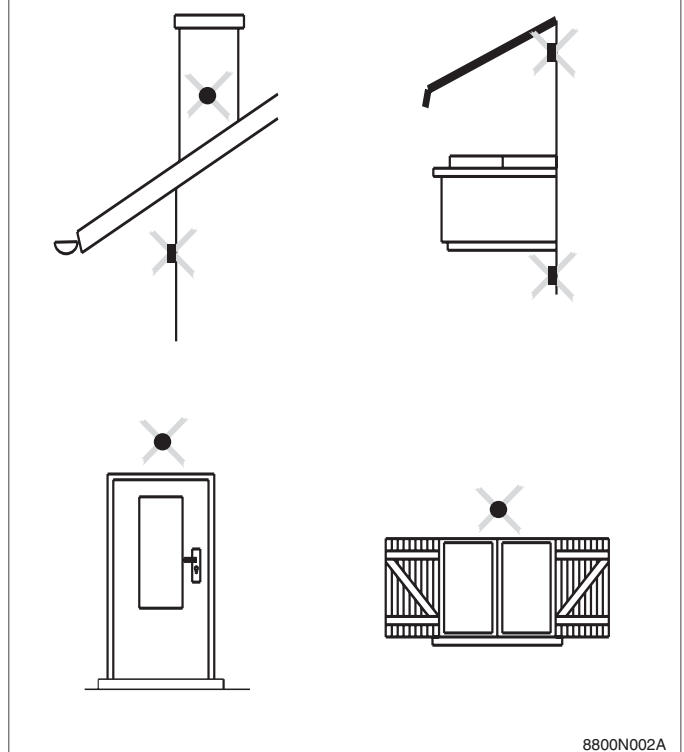
### • Installing the outside sensor

The outside sensor is installed on the outside wall adjacent to the heated area. It must be easily accessible.

- H** : inhabited height to be checked by the sensor  
● : recommended position on a corner  
○ : possible position (if difficulties are encountered)  
**Z** : inhabited area to be checked by the sensor

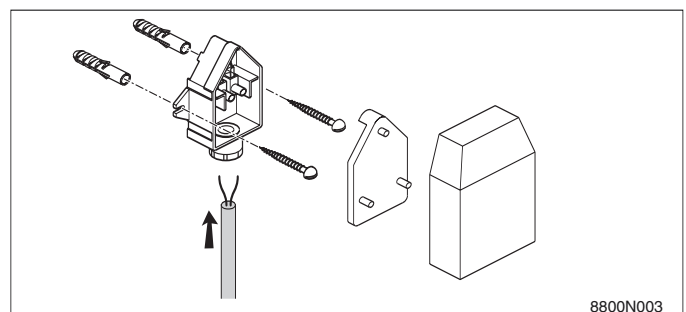


### Positions to be avoided:



### Installation :

The outside sensor is fixed to the outside wall using the supplied accessories: (wood screws + inserts).



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## • Installing options

Refer to the instructions delivered with the option.

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## ELECTRICAL CONNECTIONS



Electrical connections shall be carried out by a qualified professional only. The electrical wiring has been carefully checked in the factory and the internal connections of the control panel must not be modified in any event.

Electrical connections shall be made respecting the information given on the electrical diagrams delivered with the equipment and the directives given in the instructions.

The electrical connection must comply with applicable standards and regulations in force.

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**All connections are made on the 4x4 junction box provided for this purpose on the top of the boiler.**

The connecting cables may be brought inside the boiler through the cut-outs provided in the boiler back panel, which may be used along with purchased cable channels.

Fasten the sensor cables to the rear plate of the control panel by means of a cable clamp (cable clamp supplied in a separate pack) after mounting them on the plate.

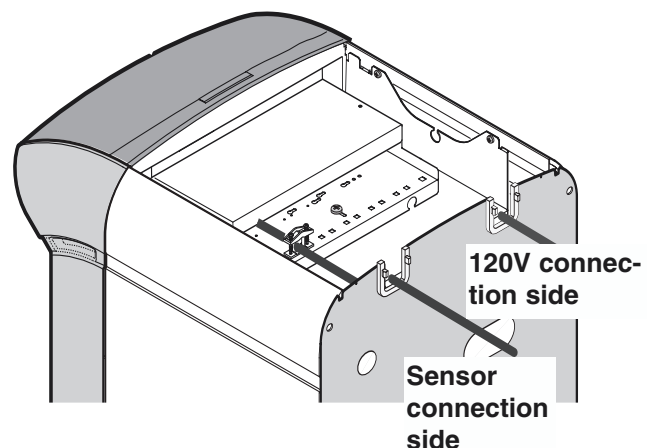
**IMPORTANT:** The maximum current that can be switched per output is 450 W inrush current less than 16 A.



Sensor cables must be separated from cables in 120V circuits.

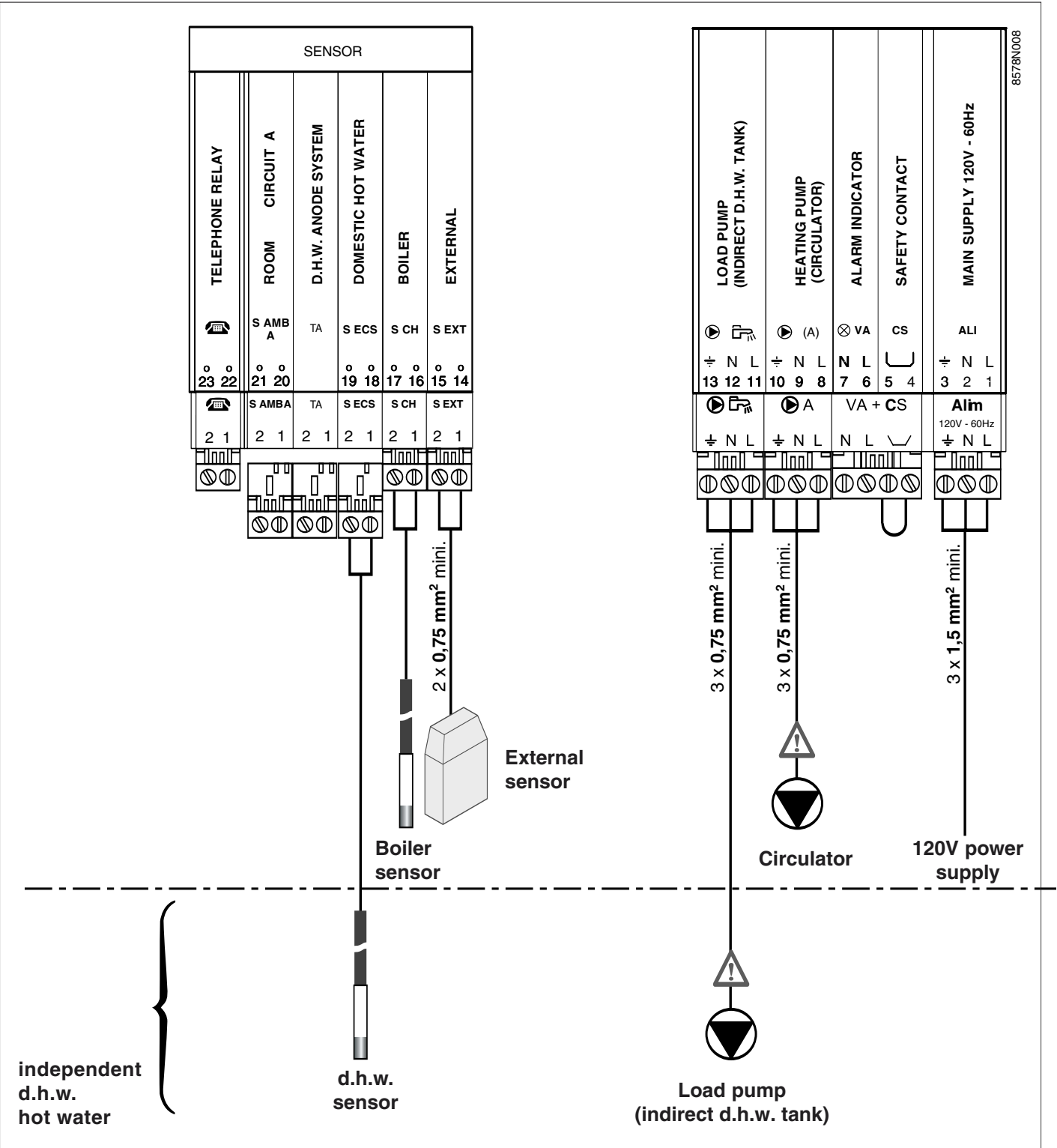
- In the boiler: use cable clamp on the boiler for this purpose.
- Outside the boiler: use a minimum distance of 4 in. (10 cm) between them.

EC-10 / EC-100



# 11. WIRING DIAGRAMS

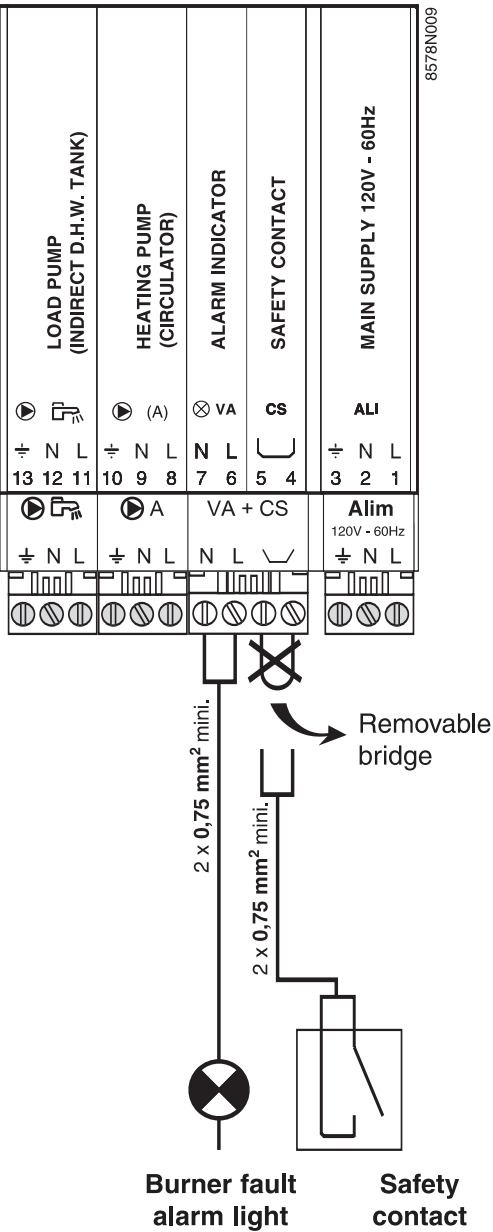
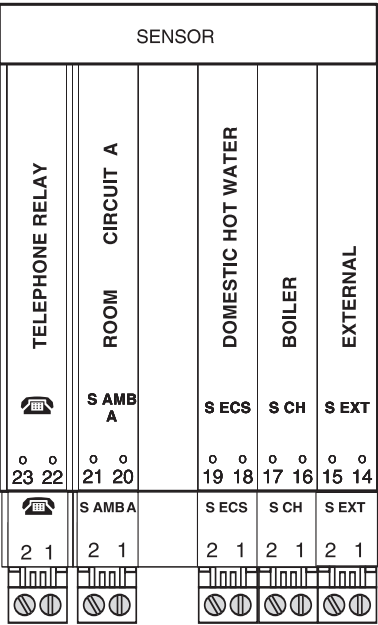
## Basic connections



Sensor cables must be separated from cables in 120V circuits (see page 15).



# Connection of options

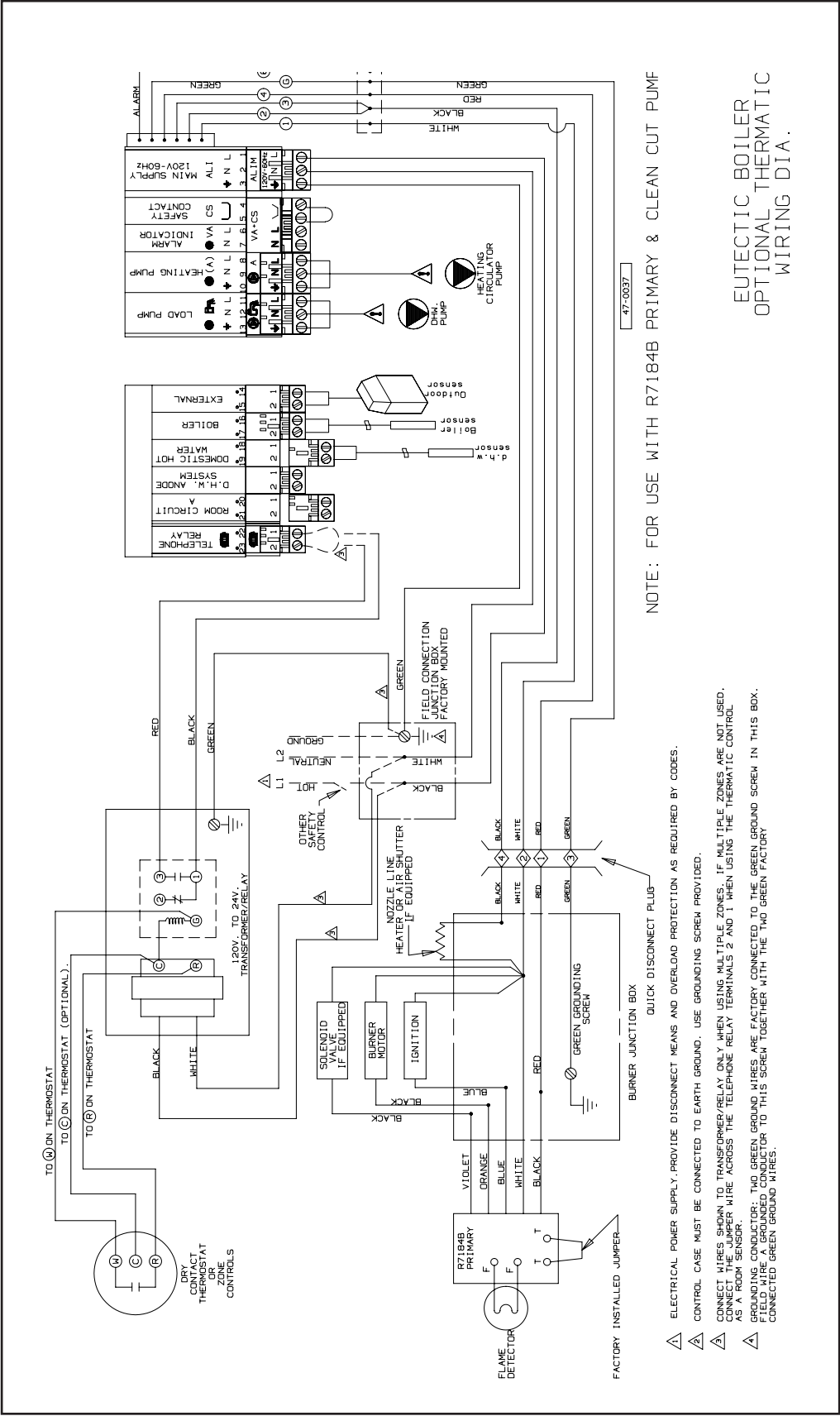


**Connection of a flue gas spill switch (TF)**  
the flue gas thermostat is connected to terminals 4 - 5 (CS) after removing the existing bridge.

**Connection of safety contact (CS)**  
terminals 4 - 5 (CS) after removing the bridge: to connect an external safety device (for example low water pressure switch, fire safety, etc.).

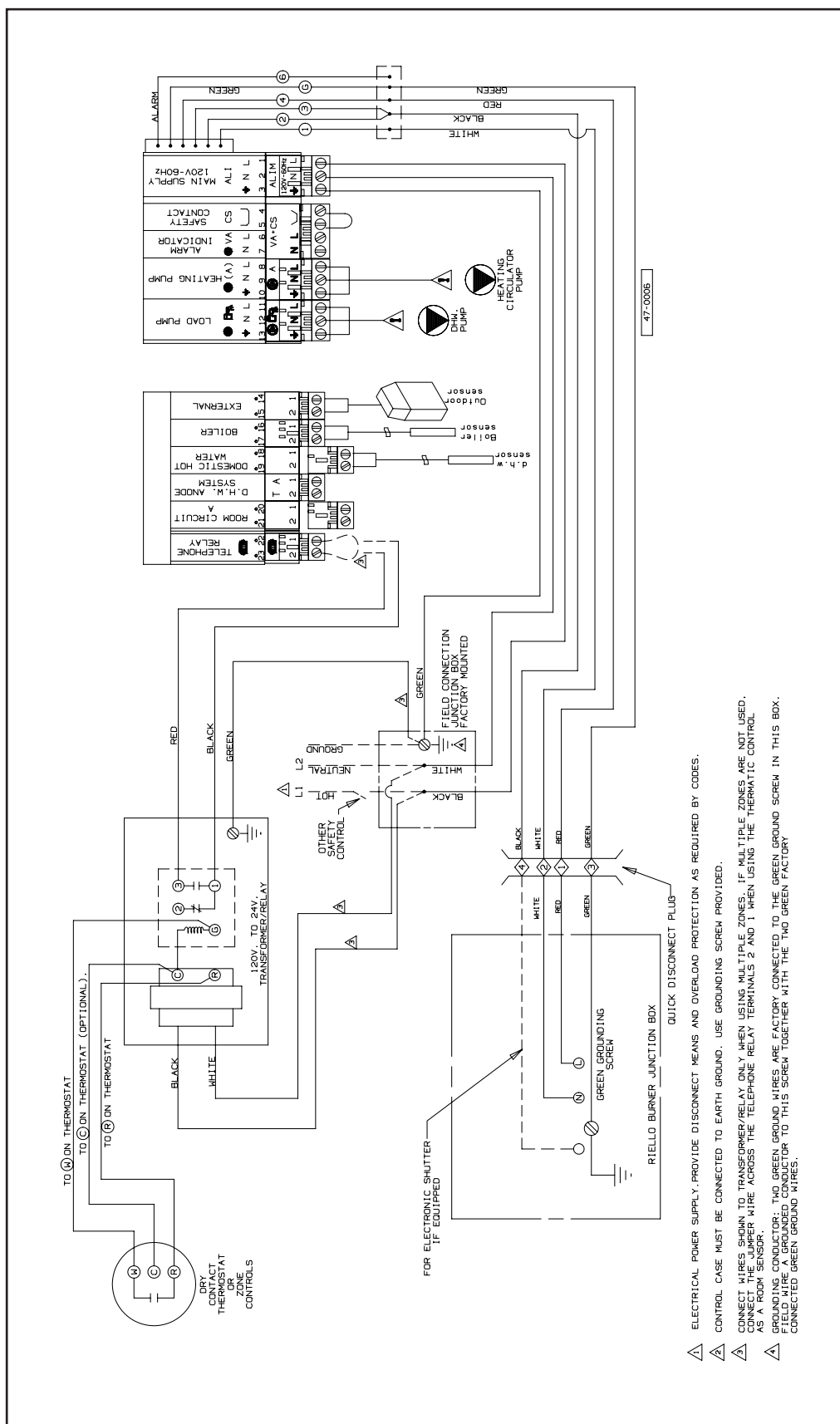
Sensor cables must be separated from cables in 120V circuits (see page 15).

# Wiring Diagram



Beckett, Heatwise and some Carlin Burners

## Wiring Diagram



## Riello and some Carlin Burners

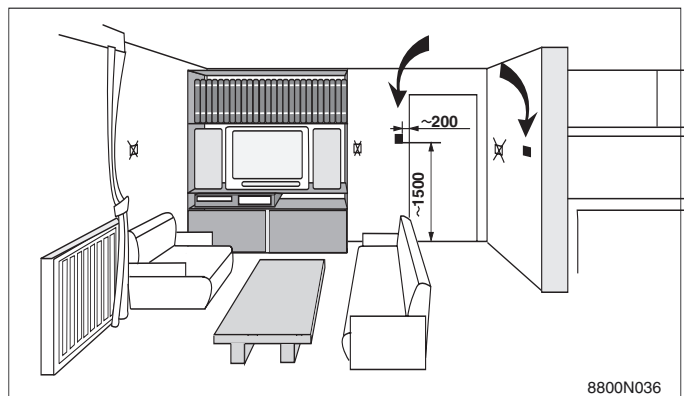
## 12. INSTALLING THE THERMATIC REGULATOR (USER-SYSTEM INTERFACE) IN THE LIVING AREA

### 1. Choose the position

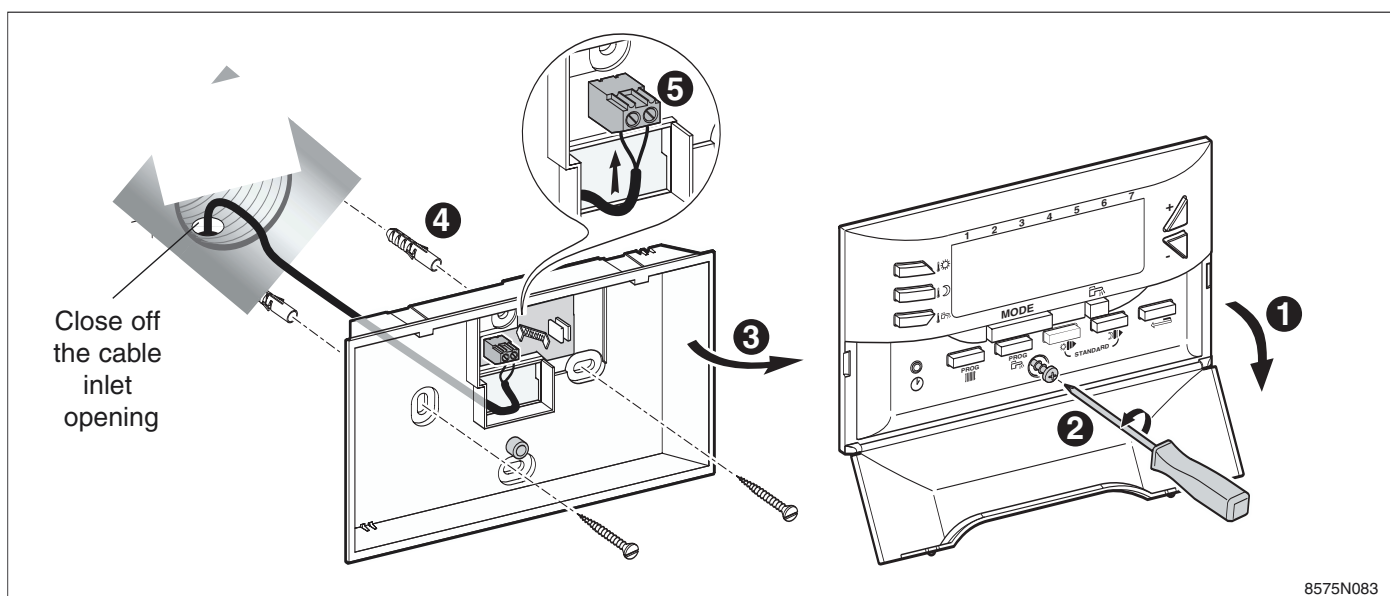
The remote control will be installed adjacent to an internal partition, about 4 1/2 feet above the floor in a judiciously chosen "control" room.

#### Locations in the room that are not recommended

Enclosed, exposed to solar radiation, heated by a flue duct, exposed to cold or hot air currents in ventilation ducts, close to an open fireplace, a heat source (television), behind a wall or a curtain.



### 2. Attachment of the wall support and the electrical connection





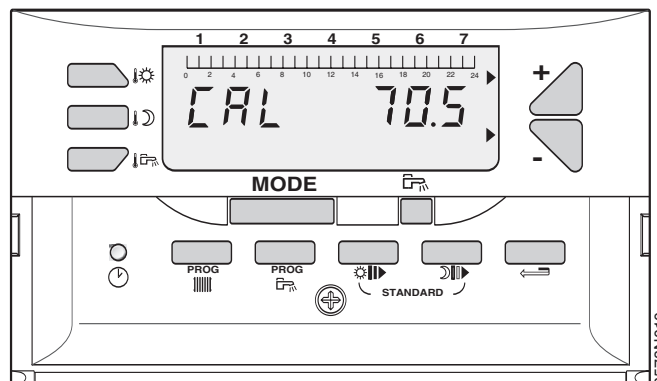
- 1 Pull down the terminal box cover.
  - 2 Loosen the central screw by a few turns, if screw on version, snap out if snap-in version.
  - 3 Remove the control part.
  - 4 Attach the wall support using the two screws and inserts provided for this purpose.
  - 5 Connect either a 2-wire telephone cable or an electrical cable with a cross-section of up to 2 x 1.5 mm<sup>2</sup> on the 2-pin connector. The wires can be reversed.
- Reassemble the control part, performing the same operations as for disassembly in the reverse order.

### 3. Room sensor calibration

- Measure the ambient temperature in the room in which the regulator is stored, using a thermometer.

- Press the  and  keys simultaneously for 5 seconds.

- Use  or  to adjust the correction to make the display match the thermometer measurements.



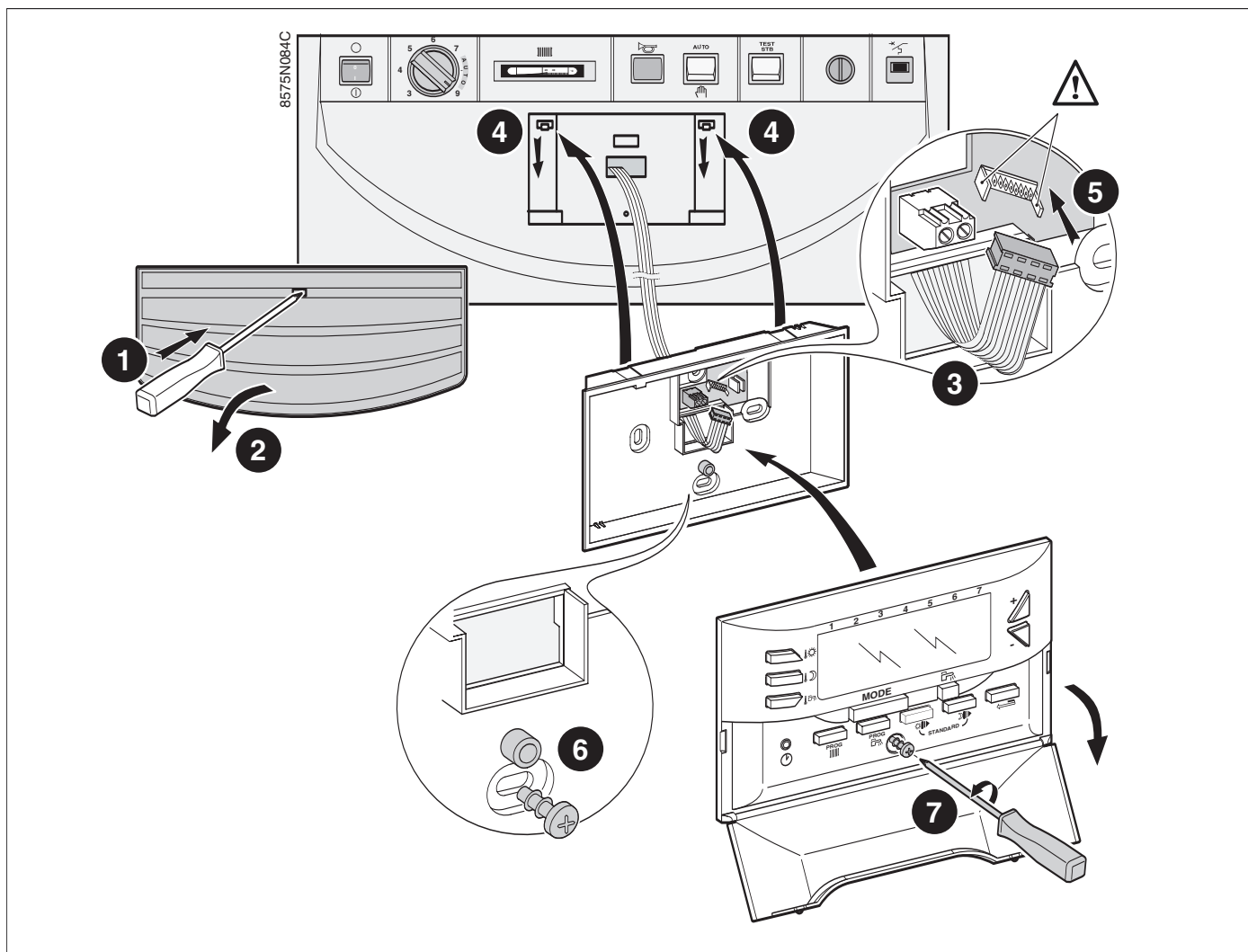
### 13. INSTALLING THE THERMATIC REGULATOR (USER-SYSTEM INTERFACE) IN THE BOILER CONTROL PANEL

#### • Electrical connection

If you do not want to install the Thematic regulator in a living room, you can install it in the boiler control panel by proceeding as follows.



In this case, you must install and connect the external sensor to the control panel (see above section : Installing the outside sensor).



- 1 Insert a flat screwdriver into the slot provided for this purpose to release the top attachment tab.
- 2 Tilt the cover and remove it.
- 3 Insert the flat connection cable in the middle of the back part.
- 4 Attach the back part of the Thematic regulator to the two notches.

- 5 Carefully clip the connector onto the P.C.B.



The tabs on the base are different widths so that an inverted connection is impossible.

- 6 Screw the back part of the regulator to the control panel.
- 7 Fix the front part of the regulator to the back part, by tightening screw, if screw-on version, or snap-in if snap-in version.

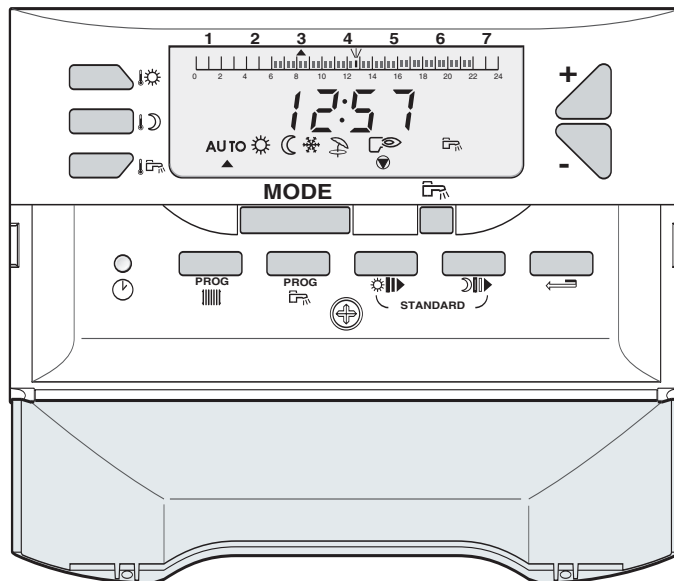
## "INSTALLER" SETTINGS



The settings given below are applicable to various functions and the installation configuration. They can only be modified by qualified professional.

### Note:

The various parameters and settings are memorized even after a power failure.



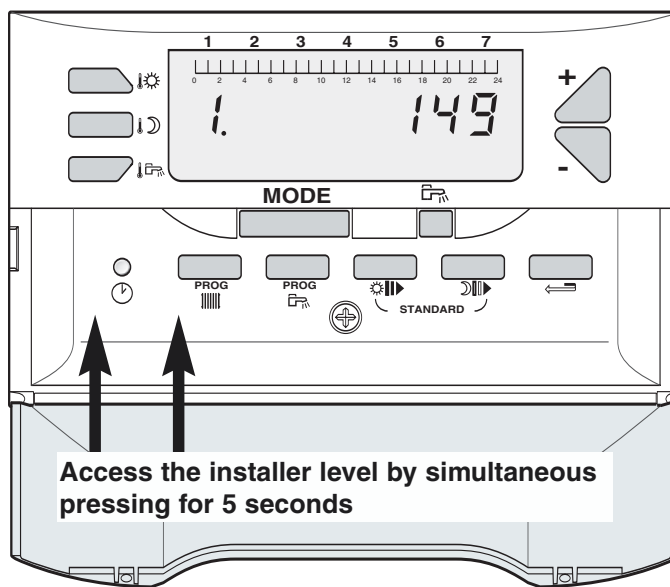
8575N078

## Settings

The various adjustable settings are given in the order in which they appear in the "Installer settings table" below.















The settings are displayed by pressing the clock ⌚ and **PROG** Heating Program  keys under the flap for 5 seconds.

When you have finished, the data are stored after 2 minutes or when you press the **MODE** key.



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## Installer settings control panel

Press	Parameter number	Item	Factory setting	Setting range
  for 5 seconds	1.	Boiler temperature measurement	/	/
	3.	Boiler circuit gradient	1.5	0 to 4
	5.	Maximum temperature of the heating circuit	75°C / 170°F	40 to 90°C / 100 to 200°F
	7.	Self-adaptivity (only with the Thermatic control module installed in the heated volume)	1	0 = blocked 1 = released
	8.	Influence of the ambient sensor 0 to 10 (only with thermatic control module installed in the heated volume)	3	0 to 10
	9.	Pump Logic (only with Thermatic control module installed in the boiler control panel)	1	0 = Pump runs continuously. 1 = Pump cycles with thermostat.
	10.	Frost free ambient set temperature (only with room sensor influence not equal to 0)	6° C / 43°F	5 to 20° C / 40 to 70°F
	11.	Frost free external set temperature	-3°C/-38°F	Can turn "OFF" by setting to -8°C/-16°F
	12.	Priority to domestic hot water (only with indirect d.h.w. tank)	1	0 = non-priority 1 = priority
	13.	Protection against legionellosis (only with indirect d.h.w. tank)	0	0 = deactivated 1 = activated
	14.	Timeout for stopping heating & d.h.w.pumps	4 min.	0 to 10 min.
	15.	CTRL number of the CDC memory		
	16.	CTRL number of the CPU memory		

If Control Panel, does not respond as it should, then you may need to perform a Total Reset. To perform a Total Reset Procedure, push simultaneously the following 3 buttons (until the LCD displays Reset):



---

## Further information about various parameters

---

### Parameter 1

#### BOILER TEMPERATURE

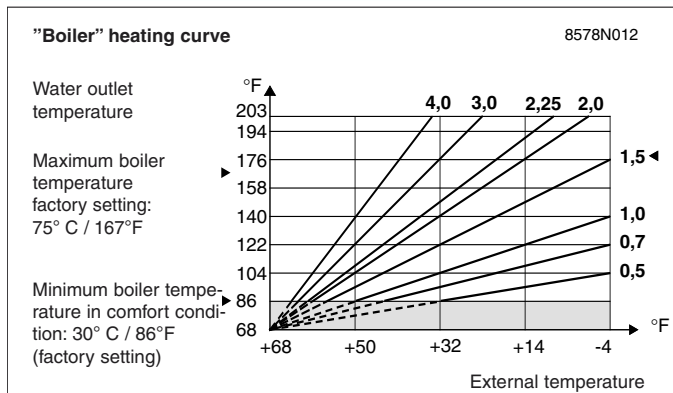
To display the boiler water outlet temperature.

---

### Parameter 3

#### HEATING CIRCUIT GRADIENT

- the gradient of the boiler circuit is set to 1.5 in the factory



### Parameter 5

#### MAXIMUM HEATING CIRCUIT TEMPERATURE

The supply temperature for the heating circuit can be limited.

#### Note

If the maximum temperature is modified, also modify the boiler thermostat stop that limits the maximum boiler temperature at 75°C / 167°F if necessary.

This is done by removing the thermostat button by pulling it and moving the stop inside the hole with pliers to make it correspond to the required limiting temperature.

#### Important

If the installation is used without an external sensor, we recommend that the maximum temperature of the heating circuit should be set to a value less than or equal to 75°C / 167°F for a conventional installation.

---

### Parameter 7

#### SELF ADAPTIVITY

- Free (setting 1): automatic adjustment of the heating curve is allowed.

- Blocked (setting 0): the heating curve is fixed. It can only be modified manually.

### Parameter 8

#### ROOM SENSOR INFLUENCE

To enable adjustment of the influence of the room sensor on the boiler water temperature.

- 0 : the room sensor is ignored  
(for example remote control badly positioned)
  - 1 : taken into account slightly
  - 3 : taken into account medium amount (recommended)
  - 10 : operation as room thermostat
- 

### Parameter 9

#### PUMP LOGIC

To select one of the following functions for operation if the room sensor is ignored.

- (Setting 1): Pump cycles with thermostat. Control is set at factory at (setting 1).

- (Setting 0): Pump runs continuously. Use this setting **ONLY** in special cases.

#### Note

This parameter is not displayed if there is a room sensor in the circuit.

---

### Parameter 10

#### ROOM FROST FREE TEMPERATURE

To adjust the minimum room temperature in frost free mode. This temperature is only checked if the parameter 8 "ROOM SENSOR INFLUENCE" is not equal to 0. If parameter 8 "ROOM SENSOR INFLUENCE" is equal to 0, this parameter is not displayed and the set temperature is fixed at 6°C / 43°F (not adjustable).

---



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## **Parameter 11**

### **EXTERNAL FROST FREE**

Factory set at 3°C/38°F. Can be turned "OFF" by setting parameter 11 to -8°C/16°F.

---

## **Parameter 12**

### **DOMESTIC HOT WATER PRIORITY**

To make the following selections when a indirect d.h.w. tank is connected:

- DHW PRIORITY (setting 1): absolute priority to heating of domestic hot water:the heating circulator pump is switched off,
- DHW NOT PRIORITY (setting 0): the heating is not cut off when the indirect d.h.w. tank is being heated

### **Important**

The temperature in the radiators can reach the maximum programmed value for the boiler while the d.h.w. tank is being heated.

---

## **Parameter 13**

### **ANTILEGIONELLOSIS**

The indirect d.h.w. tank is overheated at 70°C /158°F every Saturday from 4h to 5h. The "antilegionellosis" function acts to prevent the development of legionella in the indirect d.h.w. tank, these bacteria are responsible for legionellosis.

### **Note**

When you want to activate the antilegionellosis function, you should:

- increase the boiler thermostat setting to 80°C / 176°F.
  - provide a mixing device preventing water from being distributed at a temperature greater than 60°C / 140°F in the domestic hot water distribution network.
- 

## **Parameter 14**

### **PUMPS TIMEOUT (DHW & HEATING PUMP)**

-a timeout to switch off the heating circulator pump prevents overheating of the boiler when changing from winter conditions to summer conditions, since this could accidentally trip the safety thermostat.

- the timeout when switching the d.h.w. heating pump off prevents excessively hot water from entering the heating circuit after the indirect d.h.w tank heating has been stopped. It also prevents overheating in the boiler, which could accidentally trip the safety thermostat.

---

## **Parameter 15**

### **CDC MEMORY RELEASE CHECK**

To display the memory number used on a communicating remote control.

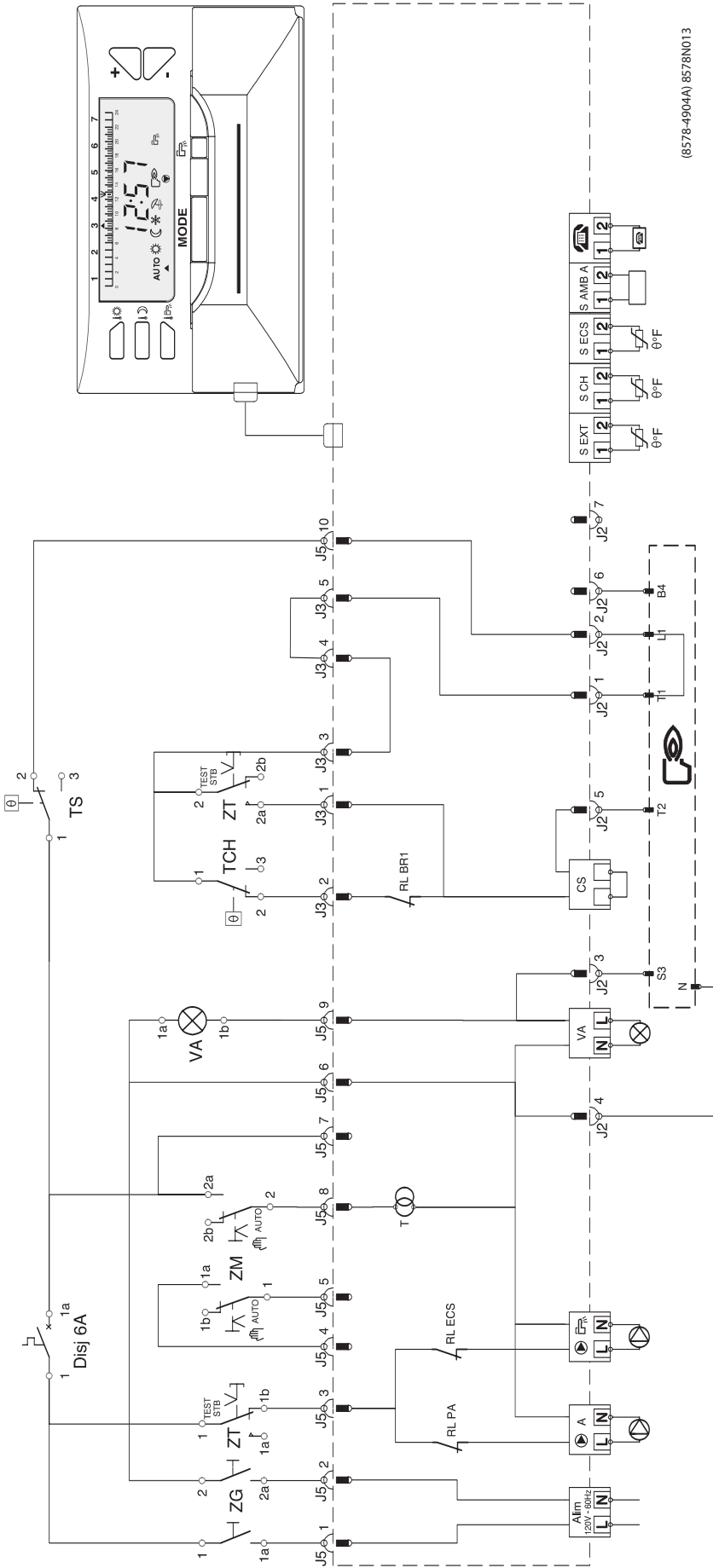
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## **Parameter 16**

### **CPU MEMORY RELEASE CHECK**

To display the number of the memory used on the E control panel regulation card.

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## SKELETON DIAGRAMS

▶ A	HEATING PUMP	RL BR1	BURNER 1st STAGE	S ECS	DOMESTIC HOT WATER	ZM	MANUAL SWITCH
▶ B	LOAD PUMP	RL ECS	CONTROL RELAY		SENSOR	ZT	TEST SWITCH
B	BURNER		LOAD PUMP CONTROL RELAY		TELEPHONE RELAY		
CS	SAFETY CONTACT	RL PA	HEATING PUMP	T	TRANSFORMER		
DJ6A	CIRCUIT BREAKER		CONTROL RELAY	TCH	BOILER THERMOSTAT		
J	PRINTED CIRCUIT BOARD	S A MB. A	ROOM SENSOR	TS	SAFETY THERMOSTAT		
L	PLUG	S CH	BOILER SENSOR	VA	ALARM INDICATOR		
N	NEUTRAL	S EXT	EXTERNAL SENSOR	X	GROUND		
				ZG	MAIN SWITCH		

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