

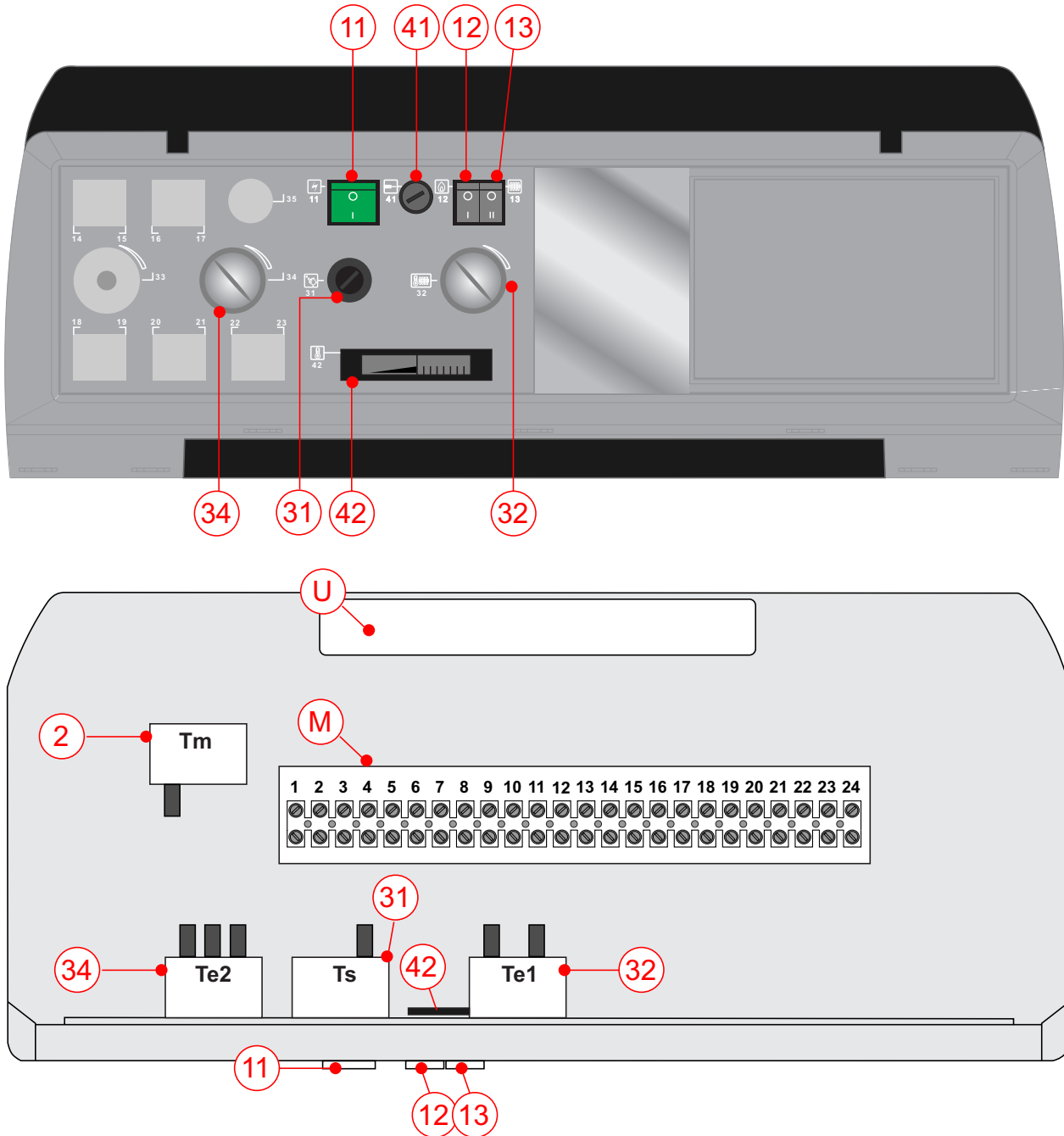


STANDARD THERMOSTATIC CONTROL PANEL

INSTALLATION AND MAINTENANCE INSTRUCTIONS

1

General Information



Description of panel functionality

The Standard thermostatic control panel (50862) automatically manages burner shutdown if the temperature in the boiler reaches the value set on the control thermostat.

It also manages the C.H. pump, which will only be put into an operating condition when the minimum temperature in the boiler of 50°C (anti-condensation protection temperature) is reached; it is possible to change the setting of this thermostat when used on Condensation boilers.

The C.H. pump will switch off when the lower threshold of 50°C (decreasing) is reached.

The panel is prepared for the management of burners with two-stage operation.

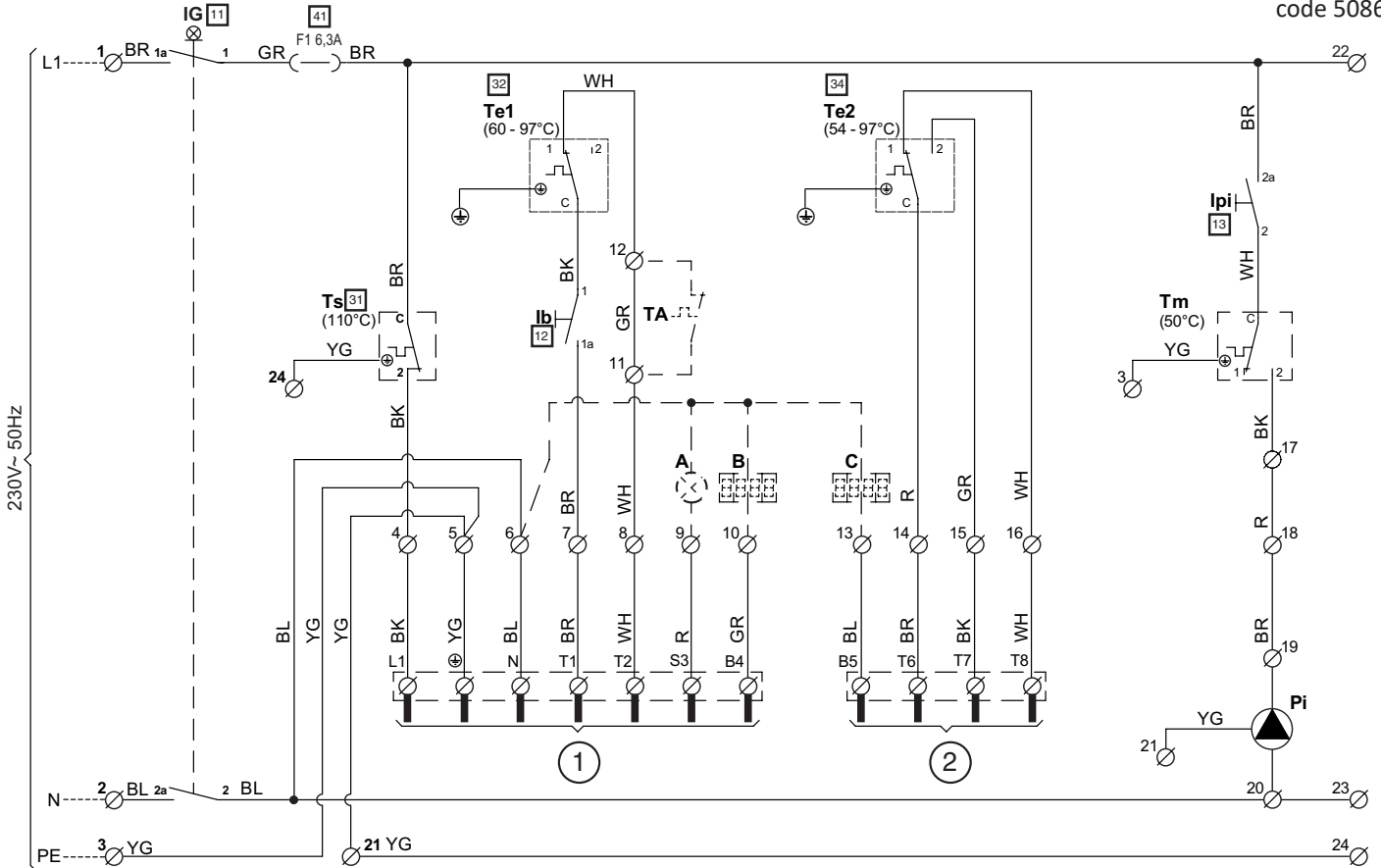
With this layout configuration, the DHW storage tank loading pump will have the priority over the heating C.H. pump.

DHW thermostat not included.



Note: Only for non-EC market

panel (36477) HT is available, with Ts at 115°C / Te1 at 60 - 106°C / Te2 at 54 to 106°C.



KEY	
No.	Description
U	Connections output
M	Connection terminal block
Ph	Phase (230V ~50Hz)
2	Tm Minimum thermostat (50°C)
11	IG Light ON /OFF switch
12	Ib Burner switch
13	Ipi C.H. pump switch
31	Ts Safety thermostat with manual reset (110°C) / only outside EC (115°)
32	Te1 1st Stage working thermostat (60°C to 97°C) / only outside EC (60 to 106°C)
34	Te2 2nd Stage working thermostat (54°C to 97°C) / only outside EC (54 to 106°C)

41	F1	General fuse (6.3 A)
42		Thermometer
A		Possible repetition of burner block
B		Possible working hour counter stage 1
C		Possible working hour counter stage 2
	Pi	C.H. pump
	Ta	Room thermostat (remove bridge between terminal block M (11 - 12))

1	Wieland 7 POLES male connector STAGE 1
2	Wieland 4 POLES male connector 2ND STAGE (OPTIONAL)
BL	BLU - BLUE - AZUL - BLEU - BLAUW
BK	NERO - BLACK - NEGRO - NOIR - ZWART

R	ROSSO - RED - ROJO - ROUGE - ROOD
Y/G	GIALLO/VERDE - YELL/GREEN - AMAR VERDE - JAUNE/VERT - GELL/GROEN
G	VERDE - GREEN - VERDE - VERT - GROEN
GR	GRIGIO - GREY - GRIS - GRAU
WH	BIANCO - WHITE - BLANCO - BLANC - WEISS

11 - Main switch

- With the switch at **0**, the boiler is not powered electrically (green indicator light off).
- With the switch at **I**, the boiler is powered electrically (green indicator light on) and is set up for the production of hot water for heating.

12 - Burner power switch

- When the switch is at **0**, the burner is not electrically powered.
- With the switch at **I**, the burner is powered electrically and is set up to run upon request by the working thermostat.

13 - C.H. pump power switch

- With the switch at **0**, the C.H. pump is not powered electrically.
- With the switch at **II**, the C.H. pump is powered electrically and is ready to run.



NOTE: the C.H. pump will switch on only after the boiler temperature has reached 50°C.

32 - Heating temperature control

Temperature is adjusted between a minimum of 60°C and a maximum of 90°C.

The set value is displayed on **42 - thermometer** after a few minutes.

31 - Resetting the safety thermostat

IMPORTANT: In the event of a safety thermostat tripping, the reset is located under the black cap position **31**. The safety thermostat can be triggered when the boiler overheats.

This can be solved first of all by lowering the working thermostat.



If the safety device of the boiler continues to trigger, do not try to restore operation of the boiler on your own. Contact an After Sale Service Centre.



NOTE: with three-phase line, the burner motor must be supplied directly; in this case the panel board only supplies the burner auxiliary line.

In the case of a burner without a connector, the connections must be made as indicated in the instruction manual.

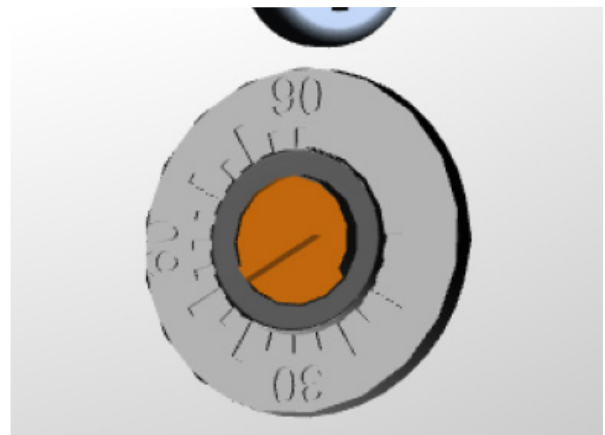
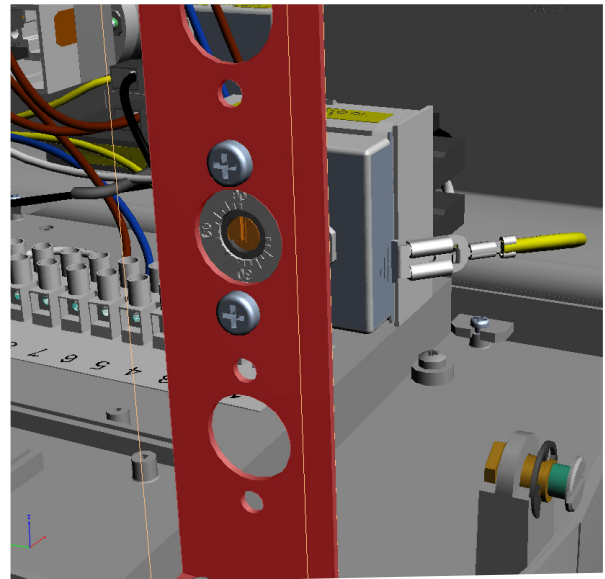
(*) Remove the bridge between terminals 11-12 of the terminal block, when the room thermostat (TA) is mounted

(**) Bridge between terminals 4-7 of the terminal block, when the burner is not equipped with a DIN 4791 connector.

* The room thermostat "TA" must be connected in series with the pump supply.

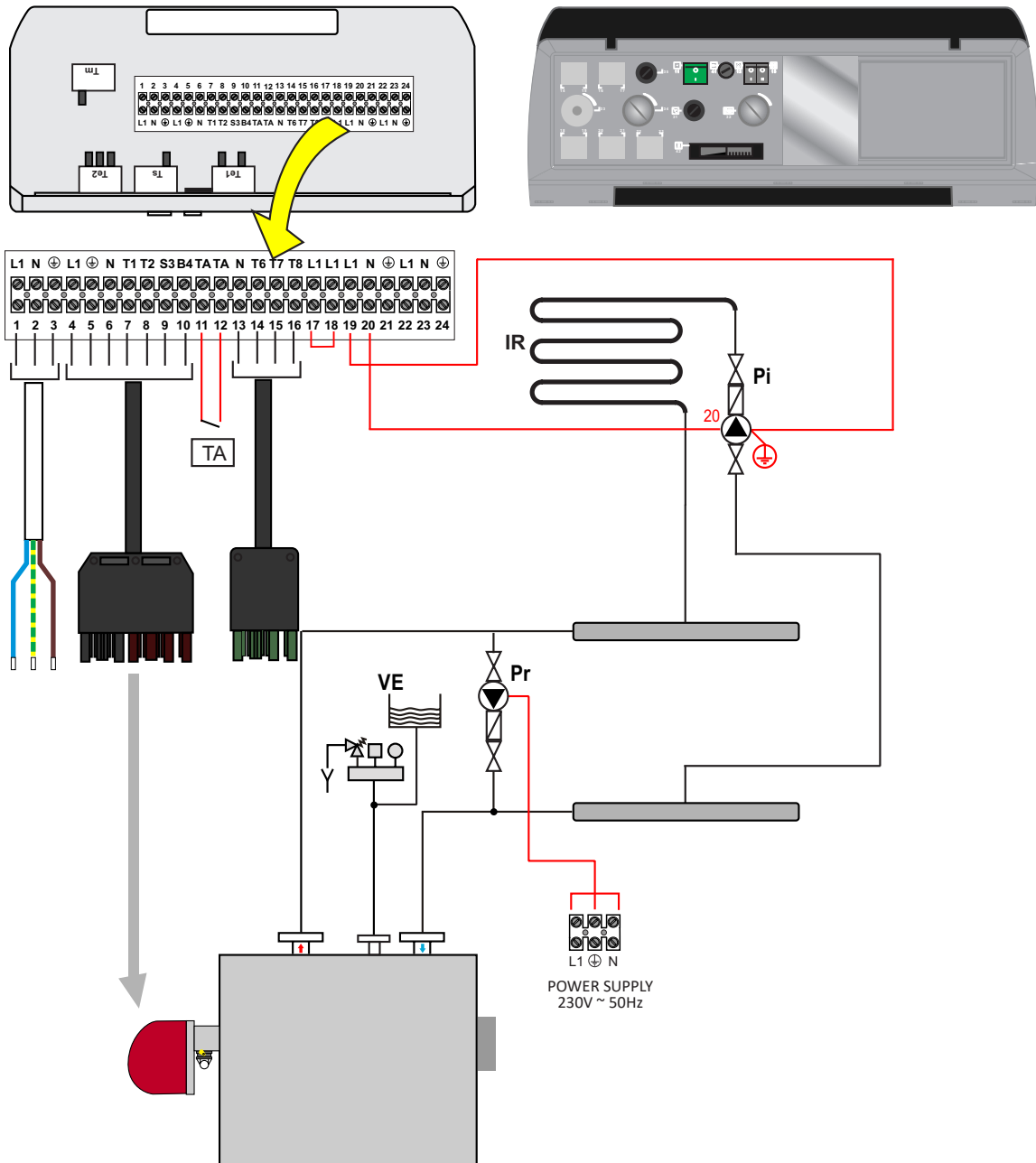
2 - Tm anti-condensation thermostat,

it is possible to lower the setting by means of the adjustment screw when used on condensing boilers.



3 Basic scheme

High-temperature boilers (heating system)



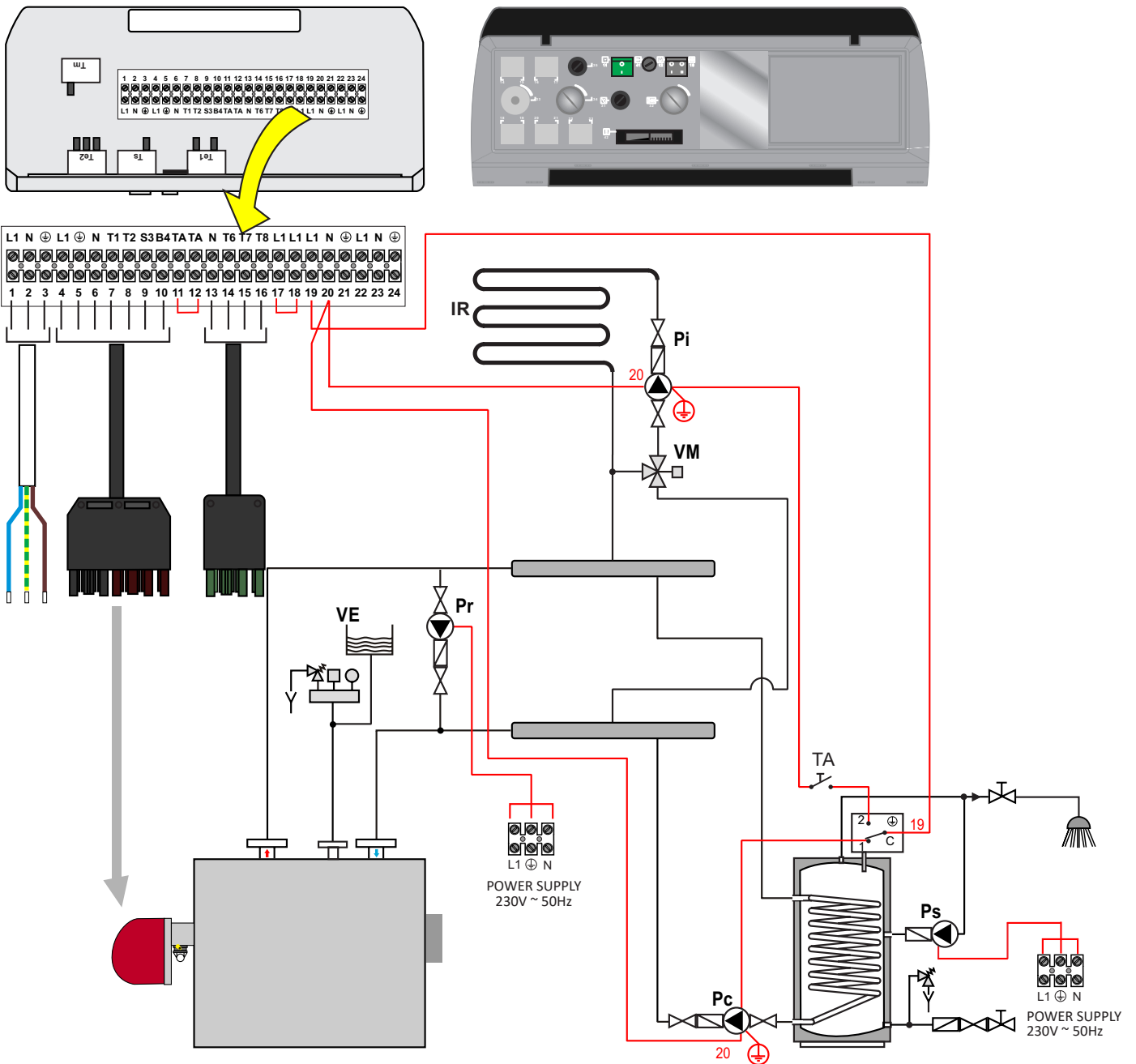
Key	
Pr	Recirculation pump
Pi	Heating system pump
VE	Expansion vessel
IR	Heating system distribution
TA	Room thermostat



The C.H. pump will switch off when the lower threshold of 50°C (decreasing) is reached.

The panel is prepared for the management of burners with two-stage operation.

High-temperature boilers (heating system and hot water production)



Key	
Pr	Recirculation pump
VM	Zone mixing valve (In the case of high-temperature boilers)
Pi	Heating system pump
VE	Expansion vessel
IR	Heating system distribution
Ps	DHW recirculation pump
Pc	DHW production loading pump
TA	Room thermostat



The C.H. pump will switch off when the lower threshold of 50°C (decreasing) is reached.

The panel is prepared for the management of burners with two-stage operation.

See Adjustment

Tm - Minimum or anti-condensation thermostat

