

Rev.	Descrizione	Data
02	FROST PROTECTION KIT – WATER HEATER (part no. 50-00106)	

Thanks to the optional electric elements kit (code 50-00106) it is possible to protect the water heater down to an external temperature of -10°C .

The electric elements kit is a frost protection system which turns ON when the DHW probe detects a temperature of 4°C , it heats the exchanger tubes until a temperature of 8°C is achieved.

How to connect the Electric elements kit (Frost protection Kit – water heater – part no.50-00106)

Please proceed as follows:

1. Cut off the voltage from the main switch;
2. Insert the four heating elements in the copper pipe of the combustion chamber (see fig. 1 and 2);
3. Remove the terminal block plastic cover and carry out the wiring connection as shown in picture no.3;
4. Reassemble the terminal block cover.

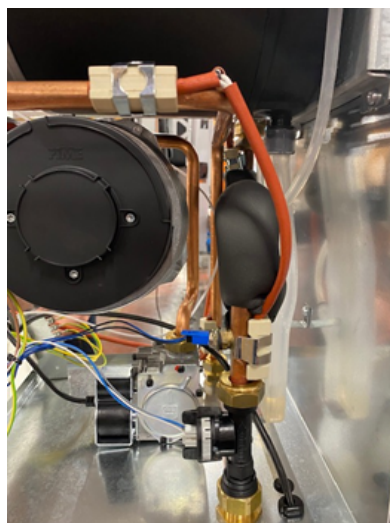
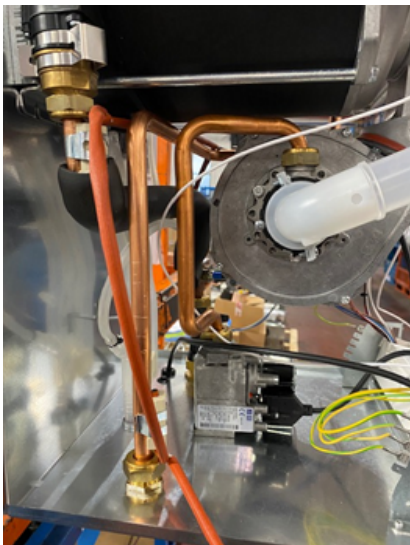
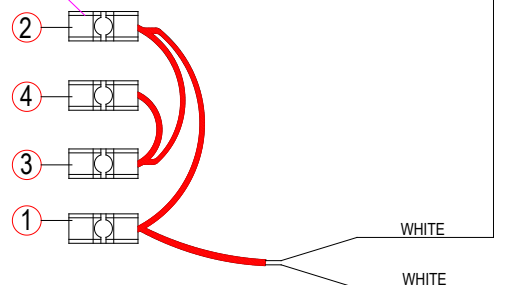


Fig. 3

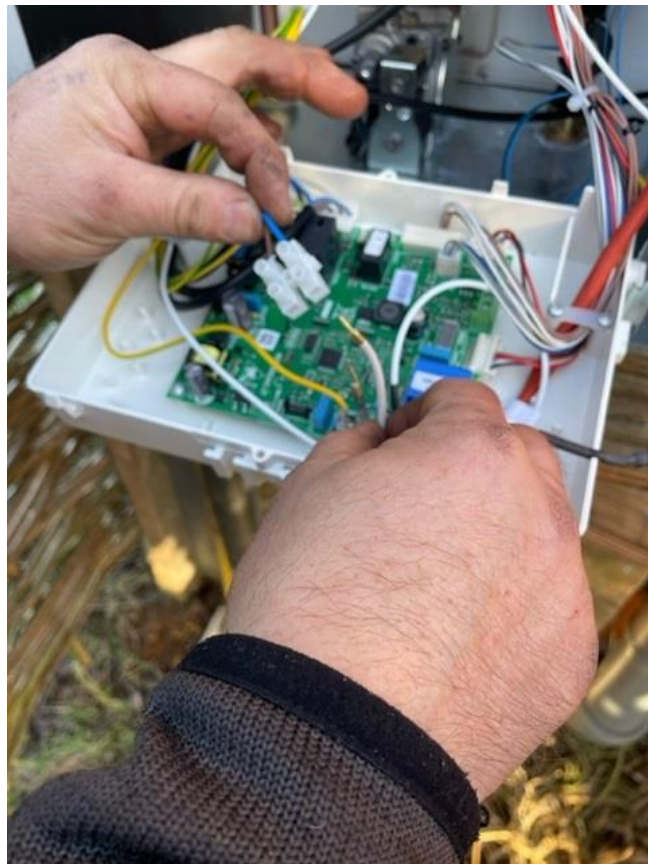
HEATING ELEMENTS



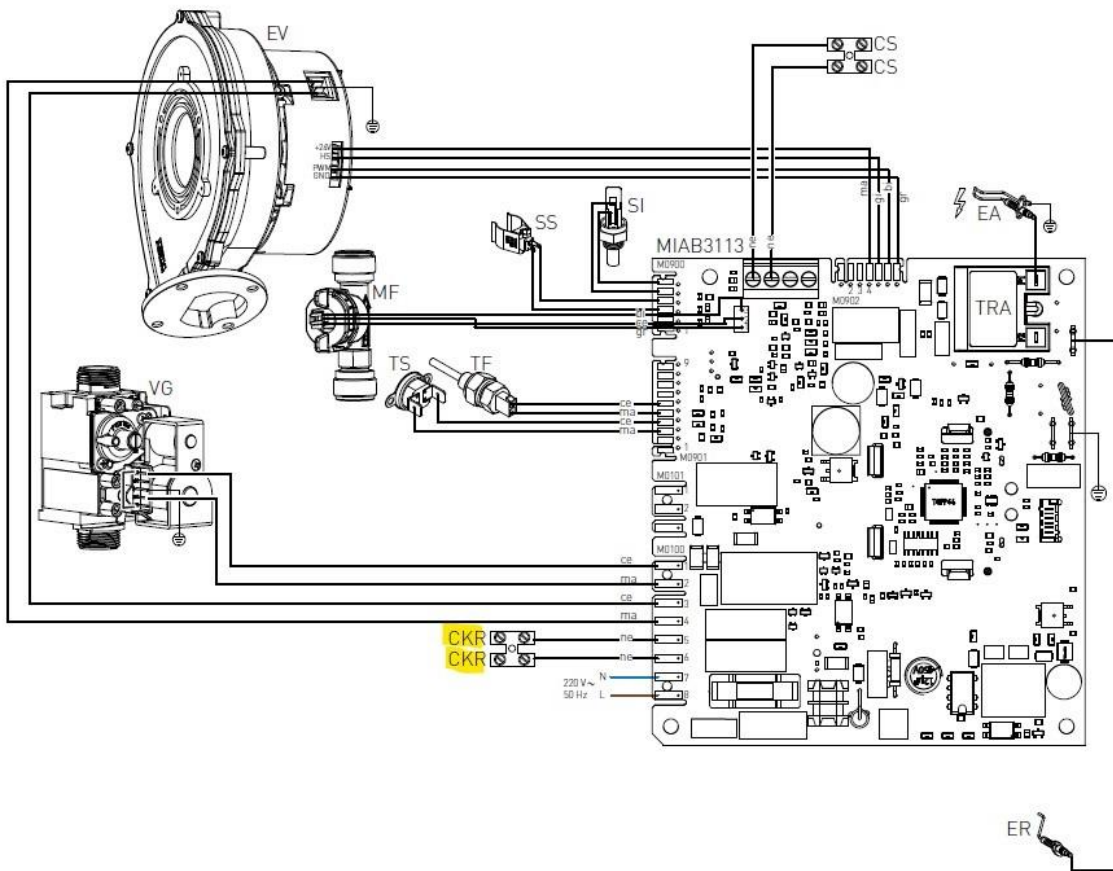
Wiring Instructions

Connect the two wires in the two terminals of the white small terminal block we see in the picture below.

This connection is a 230V AC so it is no problem if the polarity is reversed



WIRING DIAGRAM



ER: DETECTION ELECTRODE
 EA: START-UP ELECTRODE
 EV: ELECTRIC FAN
 VG: GAS VALVE
 TRA: START-UP TRANSFORMER
 TF: FUMES THERMOFUSE (102°C)
 TS: SAFETY THERMOSTAT

MF: FLUXMETER
 SI: DOMESTIC CIRCUIT PROBE INLET
 SS: DOMESTIC CIRCUIT PROBE
 CS: D.H.W. PRODUCTION CONTACT
 L: LINE
 N: NEUTRAL

NE: BLACK
 CE: BLUE
 MA: BROWN
 AR: ORANGE
 GI: YELLOW
 BI: WHITE
 GR: GREY

CKR: CONTACT FOR ANTIFREEZE
 VIA - OPTIONAL ELECTRIC
 RESISTANCE KIT (COD.: 50-00106)