

SAFETY INTERLOCK KIT

These Instructions apply to the following boilers:

Evomax 30.....G.C. No. 41-750-33A
Evomax 40.....G.C. No. 41-750-34A
Evomax 60.....G.C. No. 41-750-35A
Evomax 80.....G.C. No. 41-750-36A
Evomax 100.....G.C. No. 41-750-37A
Evomax 120.....G.C. No. 41-750-38A

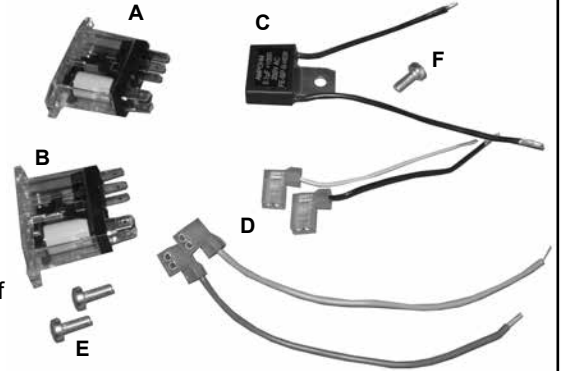
Evomax 150.....G.C. No. 41-750-39A
Evomax 30P.....G.C. No. TBA
Evomax 40P.....G.C. No. TBA
Evomax 60P.....G.C. No. TBA
Evomax 80P.....G.C. No. TBA

These instructions must be read in conjunction with the Installation & Servicing Instructions supplied with the boiler.

The Safety Interlock Option Kit allows the boiler burner to be inhibited using a simple 230V AC or 24 V AC/DC signal. This can be provided by various pieces of equipment in simplified plant installations, e.g. Gas Pressure Switch, Pressurisation Unit Failure Contacts, Air Handling Unit Failure Contacts or Water Flow Failure Contacts (Pump failure). The system can have as many device contacts connected as required in a serial Daisy Chain configuration, i.e. the burner is inhibited when any single contact opens. The system is also therefore failure tolerant where a cable becomes damaged or a connection is broken.

KIT CONTENTS

- A. Relay 230V
- B. Relay 24V
- C. Contact Suppressor, 230 V AC only
- D. Wiring leads - 4 off (blue, brown, black, yellow)
- E. Screws M3x10 - 2 off
- F. Screws M5x10 - 1 off
- G. Installation Instructions - 1 off



INSTALLING THE SAFETY INTERLOCK KIT

1. Open the front control box cover and remove the two securing screws, drop down the control box to access the wiring terminals.

2. Remove the yellow link from the terminals marked 'Interlock Relay Contacts' See photo.

3. Fit the wiring lead flag terminals to the appropriate relay as detailed and shown in the photo below:

Black lead - Contact pin 3, normally open (Upper) tab

Yellow lead - Contact pin 4, common (Centre) tab

Blue lead - Coil pin 1, LHS tab

Brown lead - Coil pin 5, RHS tab

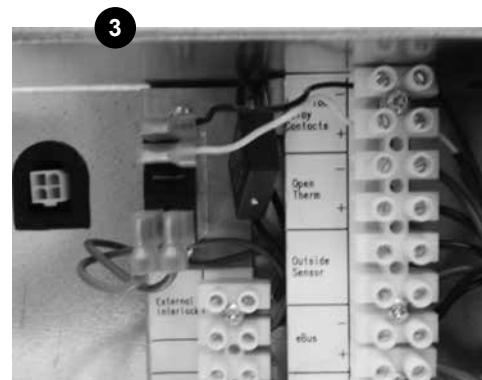
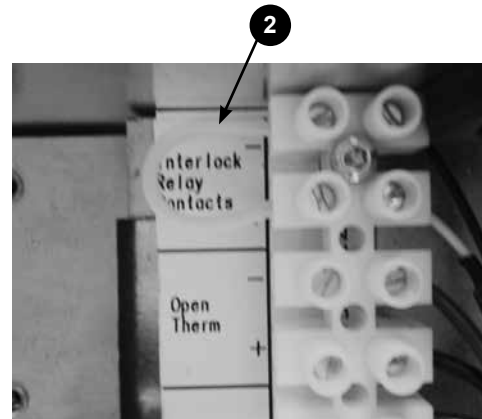
4. Mount the relay onto the terminal strip mounting bracket as shown and connect as detailed and shown in the photo.

Black lead - Interlock Relay Contacts terminal marked -, upper.

Yellow lead - Interlock Relay Contacts terminal marked +, lower.

Blue lead, and optional contact suppressor lead - External Interlock terminal Right Hand Side, upper.

Brown lead, and optional contact suppressor lead - External Interlock terminal Right Hand Side, lower.

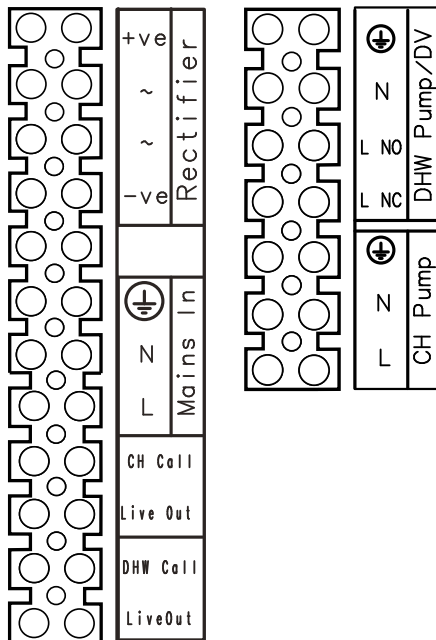


EXTERNAL CONNECTION

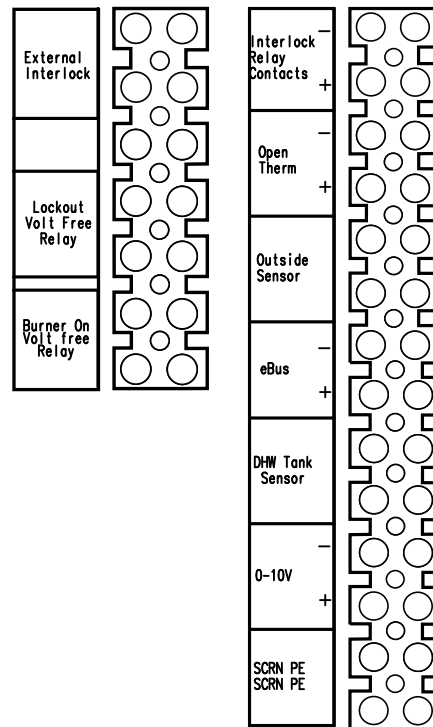
1. Wire in the 230 V AC or 24 V AC/DC control signal to the boiler via a cable gland and connect to the External Interlock Terminals of the terminal stri. Tighten the Cable gland securely.
2. Power up the external systems and check that when the interlock loop is intact, all contacts made the relay in the boiler is energised. Disconnect the loop and check that the relay de-energises.
3. With the boiler powered the display should only show an error when the relay is de-energised:

Ext' Interlock Off
External Interlock
Operated
Reset Interlock

LH SIDE MAINS CONNECTIONS



RH SIDE VOLTS FREE AND SELV CONNECTIONS



207109-10228