

# Excelsior

## EGIS002

### Gas Appliance Rangehood Interlock System

#### Key Specifications

##### 1. Interlock Box

Operating Voltage:	220-240V/50Hz
Max Rangehood Current Draw:	6A (1400W)
Max Solenoid Power:	9VA
Max Total Loading of Socket Output:	10A (2400W)
Certification:	GMA-512102-EA

##### 2. Solenoid Valve

Solenoid Voltage:	24V/50Hz
Solenoid Valve:	Brahma Model E6G*50*S10*1/2*GMO
Solenoid Valve Thread Type:	1/2" BSP Female
Solenoid Valve Max Inlet Pressure:	5kPa

##### 3. Air Pressure Switch

Switch:	Teren Model 612
Switch Voltage:	9-28VAC/DC
Switch Pressure:	20-300Pa
Switch Temperature:	-10-50°C

#### Interlock Function

The Excelsior Gas Appliance Rangehood Interlock System is designed to ensure the supply of gas to a gas appliance is only possible when the connected rangehood is in operating mode.

When installed, the unit detects when the rangehood fan is switched on and running. It then creates pressure that activates the pressure switch, which in turn energizes the connected gas solenoid valve, allowing gas to flow to the appliance. If the rangehood fan stops or fails to generate sufficient pressure, the solenoid valve is de-energized, cutting off the gas supply to the appliance.

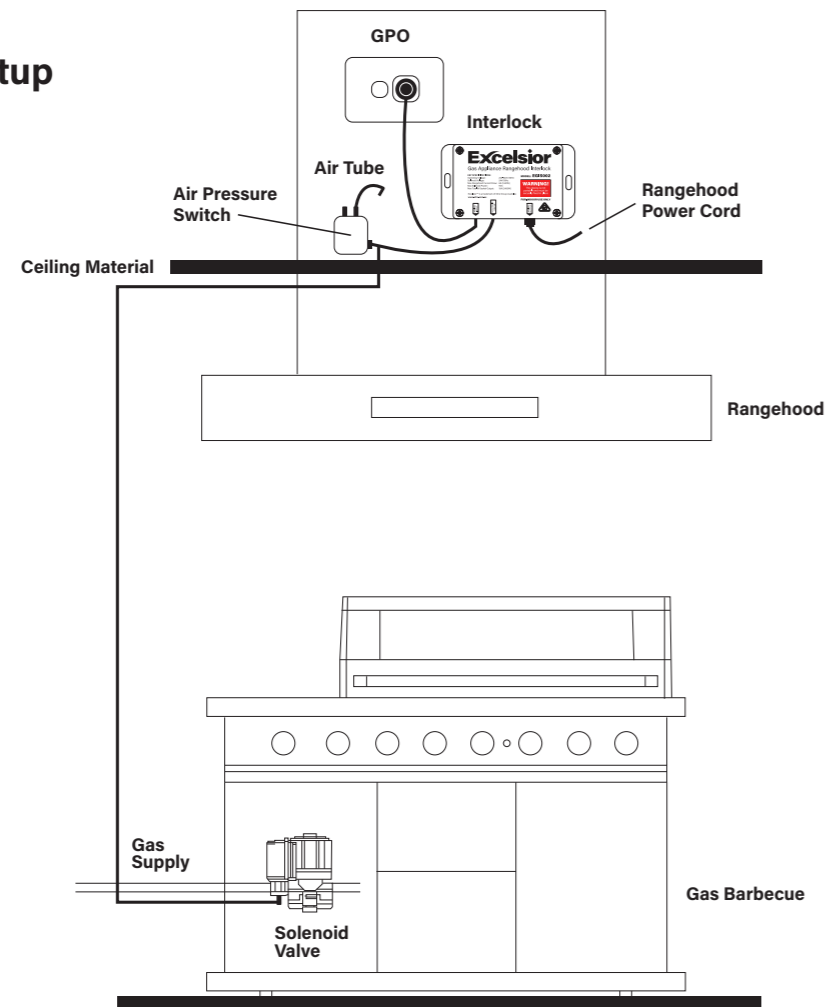
Typically, this interlock would be fitted to an approved gas barbecue with flame failure device that is installed in a residential alfresco area under a suitable Excelsior rangehood.



**THIS INTERLOCK MUST ONLY BE USED IN CONJUNCTION WITH AN APPROVED GAS APPLIANCE THAT HAS A FLAME FAILURE SYSTEM FITTED**

## Typical Interlock Installation Arrangement

### A diagram of the recommended setup



## Installation



### IMPORTANT NOTES

- The device should be installed in a location protected from direct exposure to weather.
- Connect the device directly to the mains socket and rangehood - Do not use extension cords.
- This device is not portable and must be permanently fixed in place.
- Always disconnect the controller from the power supply when working on the solenoid wiring connections.
- Electrical components particularly solenoid coils get hot when in operation, ensure the selected location provides adequate cooling ventilation and will not adversely affect adjacent materials or appliance users.
- If the range hood incorporates integral lighting, ensure the lighting alone does not activate the Solenoid Valve.
- Always check that the extract fan in the range hood operates before the solenoid valve is energised.
- Air tube should be fitted to a 7mm hole in the centre fan exhaust shroud.
- Contact your supplier for service if required.
- This unit is not maintenance free. The insert tube needs to be cleaned from time to time to ensure adequate air flow can go through the tube to activate the switch.

## Installation

### 1. Determine a Suitable Installation Location

- Select a suitable location for the controller adjacent to the fixed power outlet that is installed to supply power to the rangehood (this is generally within the rangehood top surround).
- Ensure it is within reach of the gas line where the solenoid valve will be installed.

### 2. Mount the Interlock Box

- Fix the controller securely by screwing into place using the 2 fixing holes located at each side of the controller base. Ensure it is easily accessible for future maintenance.
- Ensure the location allows adequate cooling ventilation for the controller and that adequate clearance to surrounding materials is maintained.
- Do not cover the controller, air pressure switch or solenoid.
- The controller is only for use with the solenoid valve and air pressure switch supplied.



**DO NOT USE WITH OTHER SOLENOID VALVES  
or AIR PRESSURE SWITCHES.**

- The solenoid valve must be installed by a licensed gas fitter.
- There are no user serviceable parts inside the controller enclosure. Opening the enclosure will void the warranty.
- Please contact your supplier for service if required.

### 3. Mount the Air Pressure Switch

- Mount the air pressure switch horizontally using double sided tape next to the centre fan exhaust shroud.
- Drill a 7mm hole in the edge of the centre fan exhaust shroud or into the exhaust duct if it is a metal extension for the air tube end to mount. Secure firmly with either a screw or a dot of silicon.
- Connect the air tube as shown to the air pressure switch.
- The wire with the plug stays next to the interlock box.
- The bare ended wire goes down behind the wall to the solenoid gas valve.

**Note:** It is important that the tube insert of the pressure switch is installed in-line / against the air flow direction, so that it can measure the air flow correctly. The air tube should be connected to the "+" end of the pressure switch. The total length of the air tube should not exceed 500mm.

#### 4. Installing the Valve to Gas Line

- The solenoid valve should be installed in the gas line running directly to the gas appliance between the gas supply. It should be located close to the gas appliance with adequate free airflow around the solenoid body.
- Shut off the gas supply before fitting and ensure all fittings are fully leak tested after turning the gas supply back on and continuing with the installation.



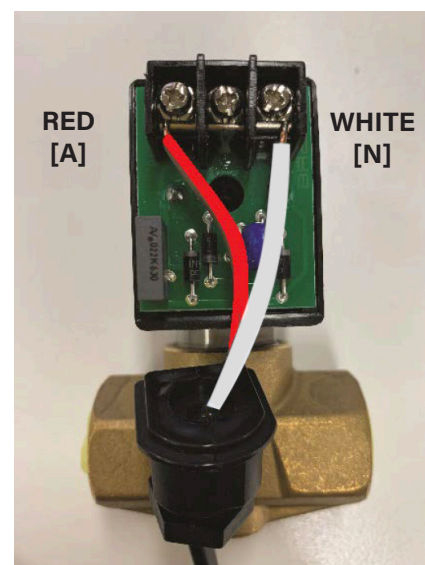
**THE SOLENOID VALVE MUST BE INSTALLED BY A LICENSED GAS FITTER**

#### 5. Wiring the Solenoid

- Connection to the solenoid valve from the controller is made via the cable with plug supplied.

**DO NOT PLUG THE CABLE TO THE INTERLOCK BOX UNTIL AFTER THE SOLENOID IS FULLY INSTALLED.**

- Remove the plastic cover on the solenoid valve body to expose the terminals.
- Feed the bare wire ends through the cable gland opening.
- Connect the brown and blue wires to the terminals on the solenoid coil as shown on the right.
- Re-attach the plastic cover.



#### 6. Connect and Test

- Once the solenoid valve, air pressure switch and interlock box are fixed in place, connect the solenoid valve cable plug to the interlock box.
- Plug the rangehood power cord into the interlock box.
- Plug the interlock box into the GPO.
- Finally, turn on the power at the GPO and test the system for correct function.

# Excelsior

For any queries or assistance call Customer Service (Australia Only) 1300 174 876

Hours of operation: Monday to Friday 8am - 5pm EST

**IMPORTANT: RETAIN THESE INSTRUCTIONS FOR FUTURE USE.**

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