

Energy Saving Kitchen Gas Safety System – Specification

The gas ventilation/gas interlock system to comply with BS6173:2009 and DW172 – Edition 2 shall be manufactured and supplied by S&S Northern Ltd (Tel: 01257 470983)

The model to be supplied is the Merlin 3000S System which is 178mm (height) x 254mm (length) x 62mm (depth) and this will come with a gas pressure transducer to carry out a gas proving test on all the downstream appliances. The Merlin 3000S System will work as a demand based ventilation system and increase the ventilation when required automatically using a 0-10V output to the fan controls.

The Merlin CO2X Monitor shall be supplied in accordance with the IGEN/UP19. The Merlin CO2 Monitor has a screen to show the concentration of CO2 in the kitchen area. It also has a low, medium and high level LED to suggest when the ventilation should be increased. In the event where the CO2 rises above 4500ppm the gas solenoid valve should close and the panel go into “CO2 High” alarm.

1 x Merlin 3000S System

1 x Gas Pressure Transmitter

1 x Merlin CO2X Monitor

1 x Merlin PM2+ Current Monitor

1 x Duct Thermostat

1 x Carbon Monoxide Detector

1 x Gas Solenoid Valve (Size TBC)

There should be a means of isolation by each main exit and any emergency knock-off buttons should be connected with the gas safety system.

Also connections can be made to the fire alarm and BMS to shut the gas solenoid valve in the event of a genuine alarm.

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