



## GAS BURNER C492A



Year 1  
study

### Features

- Flame Failure Device.
- Integral Fan with adjustable air volume control.
- Adjustable gas pressure.
- Push button Control Box with integrated fault diagnostic.
- Multibloc fuel control Valve.
- Ignitor and Burner Head.
- 2:1 turn down ratio
- hinged mounting for ease of fitting and removal.
- easy change burner nozzles for testing different fuels.

### Description

An automatic package burner, comprising flame failure device, integral fan, control box, multibloc valve, igniter and burner head. The C492A is suitable for operation with Natural gas (Methane). Alternatively, it can be user-set to operate with bottled gases such as LPG (Liquefied Petroleum Gas) / Butane / Propane mixtures. It operates on heat rates up to 100kW approx. (depending on fuel). Automatic start sequence, involving a purge period, spark ignition, then fuel admission. Gas burner has ionisation probe flame detection systems which shut down the burner in the event of flame failure.

#### Related Laws/Applications

- Building services
- Mechanical Engineering
- Marine engineering
- Chemical engineering
- Mining engineering
- Environmental engineering
- Energy Conservation
- Industrial Research
- Vocational, Plant Maintenance
- Fuel Technology
- Thermodynamics

#### Learning capabilities

- Familiarisation of the adjustment and operation of a commercial Gas burner.
- Assessment of a burner
- Firing rate
- Turndown range
- Flame stability
- Flame shape
- Flame radiation
- Smoke emission
- Using either clean light boiler fuels, or natural gas or LPG
- The effect of air/fuel ratio on Combustion efficiency as measured by flue gas constituents and temperature.
- The effect of air/fuel ratio on Heat transfer
- The effect of air/fuel ratio on Energy balance
- Comparison of Flue Gas Analysis with theoretical predictions.
- Comparison of Oil and Gas Burners (With optional extra Burner)
- Comparative performance of different fuels or fuel additives.

#### Technical Specification

- Gas Burner: Package burner with integral fan and control box, and multibloc valve. Operates on natural gas (methane) or LPG gases at heat rates up to 100kW approx. (depending on fuel).

#### Essential Ancillaries

- C492/230
- or C492/115

#### Recommended Ancillaries

- C492C Flue Kit

#### What's in the Box?

- 1 x C492 Gas Burner
- 1 x Gas Pressure Test Gauge
- 1 x Gas Supply Connector Assembly
- 1 x Manometer
- 5m x LPG tubing
- 10m x PVC tubing
- Fittings
- Instruction manual
- Packing list
- Test sheet
- Wiring Diagram

#### You might also like

- C492B
- C492D

#### Essential Services

- The C492A must be factory fitted to the C492/230 or C492/115 220-240 Volts, Single Phase, 50Hz(With earth/ground). Line current up to 3A at 230v.
- Water: Up to 25 litres m-1 at a minimum of 10m head. Open drain for this flow rate.
- Gas: LPG at maximum 2bar or mains natural gas at maximum 50mbar. Flow rate 1 to 3 g/s.
- Extraction Suitable ducting to extract 3m<sup>3</sup>/min of exhaust gases at upwards of 400°C out of the building – C492C recommended. Ventilation Room must be adequately ventilated to provide 8m<sup>3</sup>/min of fresh air flow.

#### Ordering information

To order this product, please call PA Hilton quoting the following code: C492A

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS