

# Variante<sup>2</sup> Gas Fired Unit Heaters

High performance low cost warm air heating



**BENSON  
HEATING**



Axial Fan Gas Unit Heater



Bi-Directional Gas Unit Heater



Downflow Gas Unit Heater

Comfort and Warmth When and Where Needed

Fuel Efficiency Assured

Building Regulation, ECA & CE Compliant Models

Controlled Automatic Operation

Space Saving 'Off-Floor' Design

Room Sealed Combustion Circuit

Extended Guarantees

All Heaters  
Part L2B Compliant

## Variante<sup>2</sup> VRA VRBD VRC VRE Gas Unit Heaters

Compact, quiet and yet highly efficient Benson Variante<sup>2</sup> heaters provide cost effective heating for most commercial and industrial buildings. Offering space saving 'off-floor' mounting VRA gas unit heaters discharge warmth directly into the space to be heated in a conventional cross-flow manner. VRBD heaters discharge in two directions and by so doing significantly reduce both capital and installation costs. VRE heaters have downward air discharge characteristics and combine uniformity of heating with high levels of de-stratification. VRC versions are suitable for ducted systems.

### Technical Data

| Model              |          | 12          | 20   | 30   | 42   | 50   | 60   | 72               | 95   | 120  | 145      |      |
|--------------------|----------|-------------|------|------|------|------|------|------------------|------|------|----------|------|
|                    |          | VRA/VRC/VRE |      |      |      |      |      | VRA/VRBD/VRC/VRE |      |      |          |      |
| Output             | kW       | 12          | 20   | 29   | 39   | 49   | 59   | 72               | 96   | 120  | 144      |      |
| ECA Approved       |          | ✓           | ✓    | ✓    | ✓    | ✓    | ✓    | ✓                | ✓    | ✓    | ✓        |      |
| Electrics          | VRA/BD/E | 230/1/50    |      |      |      |      |      |                  |      |      |          |      |
|                    | VRC      | 230/1/50    |      |      |      |      |      |                  |      |      | 415/3/50 |      |
| Overall Dimensions | Height   | mm          | 440  | 440  | 545  | 650  | 780  | 910              | 650  | 800  | 980      | 1150 |
|                    | Width    | mm          | 1050 | 1050 | 1050 | 1050 | 1050 | 1050             | 1750 | 1750 | 1750     | 1750 |
|                    | Depth    | mm          | 841  | 881  | 893  | 893  | 893  | 893              | 1023 | 1023 | 1023     | 1023 |
| Flue Diameter      | mm ø     | 80          | 80   | 100  | 100  | 100  | 100  | 130              | 130  | 130  | 130      |      |
| Nett Weight        | kg       | 71          | 76   | 90   | 104  | 120  | 138  | 181              | 203  | 242  | 279      |      |

Note: Weights and dimensions refer to VRA axial fan units. For details of Bi-Directional, Centrifugal and Down-Flow Units please contact our sales office.

### Specification

**Application:** A range of suspended gas fired unit heaters with clean aesthetic lines and configured for either room sealed or conventional flue applications. Suitable for showrooms, factories, workshops, warehouses, greenhouses and many other commercial premises. Off-floor mounting provides an ideal solution where floor space is at a premium

**Building Regulations & ECA Approval:** All Benson Variante<sup>2</sup> gas unit heaters are designed with fuel efficiency in mind and meet the efficiency requirements of Part L2B of current Building Regulations as well as applicable CE legislation. Additionally all models within the range have been rated to meet the Government's energy efficiency criteria for inclusion into the Enhanced Capital Allowance scheme.

**Construction:** The casing is robotically formed from electro zinc coated steel sheet and finished with a durable stove hardened epoxy polyester powder paint whilst the heat exchanger is formed without the need for welding from either aluminised or stainless steel to form a four pass multi-tube assembly.

**Burner:** High efficiency low noise multi flame in-shot burner complete with automatic ignition and full flame safety monitoring. Available for natural gas or LPG propane.

**Power Flue:** Enables the heater to be used in room sealed or fan assisted flue format with both vertical and horizontally flue exit options.

**Controls:** Heaters are ready for automatic operation after the simple connection of time and temperature controls. Benson offers two control options the CP2 incorporating a digital time switch, mechanical day temperature and frost protection thermostats. Alternatively heaters may be specified with a fully optimised CP4 control which includes a secure entry code facility, temperature dependent start time, digital time switch with override facility, electronic day thermostat and frost protection thermostat. Fully optimised control obligatory for ECA applications. Both options provide 'fan only' operation for summer air movement.

**Air Distribution:** VRA heaters are fitted with powerful axial fans and discharge warm air through an outlet grille which is complete with adjustable horizontal louvres. VRBD heaters do likewise but discharge warm air in two opposing directions enhancing distribution whilst reducing capital and installation costs. VRE heaters have a downward discharge pattern whilst VRC heaters are designed for ducted applications and are fitted with centrifugal fans.

**Testing:** Every heater is individually inspected, test fired and safety function tested prior to despatch.

**Guarantee:** Benson heaters are provided with one of the most comprehensive guarantee packages available -

**Year One:** Parts and labour

**Year Two:** Parts

**Ten Year:** Combustion chamber heat exchanger warranty

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