

**DUNHAM-BUSH®**

**Series AM Supercomfort  
Next Day Fan Convectors**



*Products that perform... by people who care*



## Range and Options

### Introduction

Series AM Supercomfort fan convectors are the ideal heating solution for schools, colleges, care homes and libraries from Dunham-Bush, leaders in heating and air conditioning products. They are available from stock for next day delivery when time is critical.

Series AM Supercomfort fan convectors are high specification popular models, designed with safety in mind, complete with rounded corners, pencil proof grilles and access panel security locks. They operate with low temperature hot water (LTHW), to provide quiet, efficient and rapid response warm air heating for many applications.

There are four models in the Supercomfort range :

- Models 13 and 25 floor standing
- Model 31 ceiling mounted
- Model 38 wall mounting

Should these four popular models not cover your application, please refer to our Series 'AM' Comfort product catalogue, which has a further 18 standard models and a large range of accessories.

All models are fitted with adjustable low temperature cut-out thermostat (LTC) which prevents heater operation until the heating water is hot enough for it to work efficiently. The LTC will automatically stop the heater at the end of the normal operating period, when the boiler plant closes down.

Models 13 and 25 are also fitted with air thermostats for automatic room temperature control.

Models 13 and 25 are offered in all figure numbers, Models 31 and 38 are offered in numbers 06, 10 and 15.



Model AM25



Model AM38



Model AM13



Model AM31

| Standard specifications   | Model |    |    |    |
|---|-------|----|----|----|
|   | 13    | 25 | 31 | 38 |
| Casing finish powder coating, flake grey, 36% gloss, 10 A 03                                    | •     | •  | •  | •  |
| Back and grilles finished black, 10% gloss, 00 E 53   | •     | •  | •  | •  |
| Pencil proof extruded recirculation and discharge grilles                                       | •     | •  | •  | •  |
| Access panel locks  | •     | •  | •  | •  |
| Access panel safety screw   |       |    | •  |    |
| 2-rows of copper tubes/aluminum fins coil   | •     | •  | •  | •  |
| DN20 (3/4 BSP.) female parallel coil connections  | •     | •  | •  | •  |
| Type M manual air vent  | •     | •  | •  |    |
| Type P plugged air vent   |       |    |    | •  |
| Quiet running, resiliently mounted, capacitor start and run motor 230/240/1/50. BS5000, part 11 | •     | •  | •  | •  |
| Multi-blade centrifugal fans  | •     | •  | •  | •  |
| Adjustable low temperature cut-out thermostat (LTC)   | •     | •  | •  | •  |
| On/off and speed change thermostats   | •     | •  |    |    |

| Accessories   | Model |    |    |    |
|---|-------|----|----|----|
|   | 13    | 25 | 31 | 38 |
| 100mm or 150mm high plinth, supplied loose for site fixing  | •     | •  |    |    |
| Remote flush on/off switch                                  | •     | •  | •  | •  |
| Remote flush manual/off/auto switch                         | •     | •  | •  | •  |
| Remote flush high/off/low switch                            |       |    | •  | •  |
| Remote flush manual/off/auto and high/low switch            | •     | •  | •  | •  |
| Remote Honeywell T6360B1028 air thermostat                  |       |    | •  | •  |
| Remote Honeywell T6360B1069 tamper resistant air thermostat |       |    | •  | •  |

### Safety

- All metal rounded corners
- Access panel locks
- Pencil proof grilles

### Quality

- UK manufacture
- BS EN ISO quality assurance system
- Durable finish
- Quiet operation

### Reliability

- Assured operation
- Guaranteed performance

### Unique Styling

- Rounded corners
- Smooth lines
- Recessed back

### Competitive

- High specification/ low prices

### Availability

- Overnight delivery



## Performance

### Table 1 Heat outputs

Heat outputs kW, air volume flow rates l/s, leaving air temperatures °C and hydraulic resistance's kPa.  
*Conditions:* LTHW 75°C mean, 10K drop across the coil at medium speed,  
 same water flow rate at low and medium speeds.  
 Entering air temperature 18°C

| Figure Number | Low speed |     |    | Medium speed |     |    | kPa  |
|---------------|-----------|-----|----|--------------|-----|----|------|
|               | kW        | l/s | °C | kW           | l/s | °C |      |
| 03            | 1.78      | 50  | 47 | 2.61         | 75  | 47 | 0.47 |
| 06            | 4.51      | 105 | 52 | 6.01         | 150 | 51 | 2.60 |
| 10            | 7.85      | 190 | 52 | 9.37         | 250 | 49 | 1.65 |
| 15            | 11.03     | 270 | 51 | 12.71        | 335 | 49 | 3.31 |

### Table 2 Correction factors

Approximate factors for heat output and hydraulic resistance, at various mean water temperatures, entering air temperatures and water temperature drops across the coil.

| mean water °C | entering air °C | Temperature drop across coil |           |        |           |        |           |        |           |
|---------------|-----------------|------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|
|               |                 | 5K                           |           | 10K    |           | 15K    |           | 20K    |           |
|               |                 | output                       | hyd. res. | output | hyd. res. | output | hyd. res. | output | hyd. res. |
| 50            | 18              | 0.55                         | 1.19      | 0.50   | 0.28      | -      | -         | -      | -         |
|               | 20              | 0.51                         | 1.04      | 0.46   | 0.24      | -      | -         | -      | -         |
| 55            | 18              | 0.65                         | 2.28      | 0.60   | 0.38      | -      | -         | -      | -         |
|               | 20              | 0.61                         | 1.45      | 0.56   | 0.34      | -      | -         | -      | -         |
| 65            | 18              | 0.85                         | 2.67      | 0.80   | 0.65      | 0.75   | 0.27      | -      | -         |
|               | 20              | 0.81                         | 2.44      | 0.76   | 0.59      | 0.71   | 0.25      | -      | -         |
| 75            | 18              | 1.05                         | 3.98      | 1.00   | 1.00      | 0.95   | 0.43      | 0.91   | 0.23      |
|               | 20              | 1.00                         | 3.69      | 0.95   | 0.92      | 0.91   | 0.39      | 0.87   | 0.21      |
| 85            | 18              | -                            | -         | 1.20   | 1.41      | 1.16   | 0.62      | 1.12   | 0.33      |
|               | 20              | -                            | -         | 1.16   | 1.32      | 1.11   | 0.58      | 1.07   | 0.32      |

### Table 3 Electrical Data

Electrical Data - running and starting currents in amperes, at low, medium and high speeds and motor outputs in Watts.

| Figure Number | Running current |        |      | Starting current | Motor output Watts |
|---------------|-----------------|--------|------|------------------|--------------------|
|               | low             | medium | high |                  |                    |
| 03            | 0.17            | 0.21   | 0.24 | 0.45             | 25                 |
| 06            | 0.30            | 0.36   | 0.41 | 0.75             | 40                 |
| 10            | 0.46            | 0.47   | 0.46 | 1.15             | 75                 |
| 15            | 0.56            | 0.54   | 0.53 | 1.15             | 75                 |

### Table 4 Coil capacities

Approximate coil capacities, litre.

| Figure number | litre |
|---------------|-------|
| 03            | 0.63  |
| 06            | 0.77  |
| 10            | 1.03  |
| 15            | 1.25  |

### Table 5 Heater masses

Approximate shipping masses, kg.

| Supercomfort model | figure number 03 | figure number 06 | figure number 10 | figure number 15 |
|--------------------|------------------|------------------|------------------|------------------|
| 13                 | 36               | 45               | 55               | 65               |
| 31                 | -                | 45               | 55               | 65               |
| 25                 | 35               | 44               | 54               | 64               |
| 38                 | -                | 46               | 56               | 66               |



Dunham-Bush operates a quality control system and is a firm of assessed capability to BS EN ISO 9001 : 2000

Whatever the product, wherever its eventual destination, the Dunham-Bush design and manufacturing policy has always been firmly based on technical quality.

### Product support

In the United Kingdom and Ireland, Dunham-Bush have a network of sales agents and representatives, situated at strategic locations, to provide local support in pricing and selection. Further technical and application support is available at Dunham-Bush head office and factory in Havant.

### Other Dunham-Bush products

Series AM fan convector  
 Series BM fan convector  
 Series CM fan convector  
 Series L fan convector

Evolution radiant panels  
 Evo-Lite radiant panels  
 Dunham Strip radiant panels

Series F fan coil units  
 Panther fan coil units  
 Cougar fan coil units  
 Leopard fan coil units  
 Lynx fan coil units

Sentry air curtains

Voidpak air handling units  
 ECS air handling units

Finvector perimeter heating system  
 Trench Finvector heating system  
 Series UH unit heaters  
 Warmsafe LST radiators

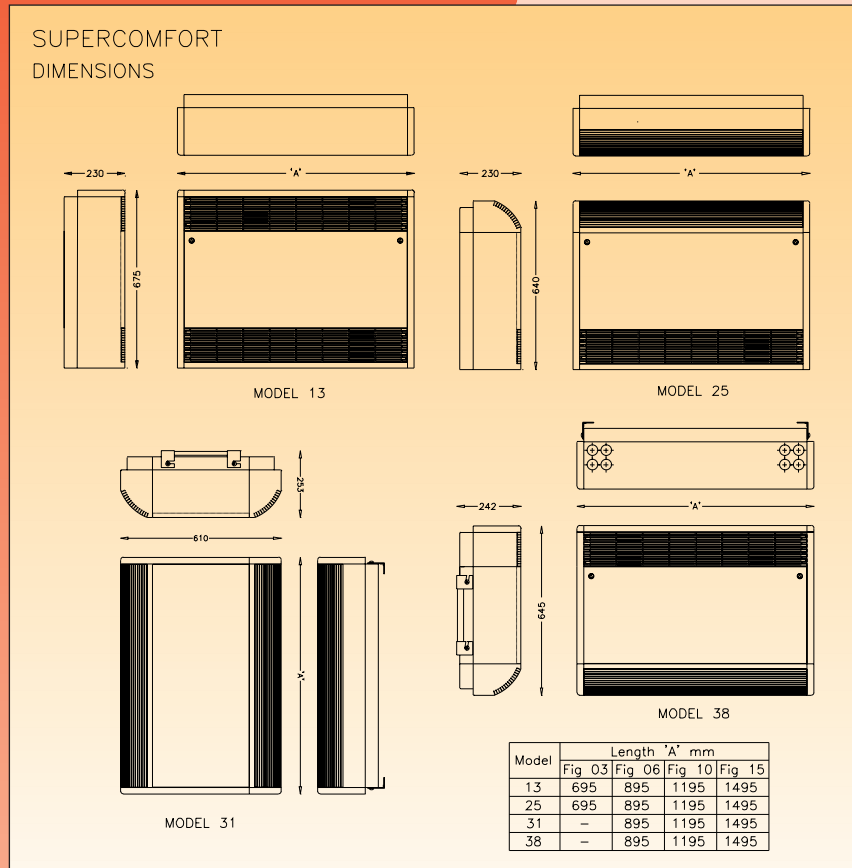
Systema gas fired products

Thermocold packaged chillers



Manufacturer reserves the right to change any product specification without notice.

## Dimensions



DUNHAM-BUSH Ltd.  
 Downley Road, Havant  
 Hampshire PO9 2JD  
 Tel: 023 9247 7700  
 Fax: 023 9245 0396  
 email: info@dunham-bush.co.uk  
 www.dunham-bush.co.uk

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