

BESPOKE





Bespoke Belt Driven Unit with Heat Recovery

The bespoke section of our brochure is intended to give an overview of what can be done with an indication of unit size. A strong aspect of our expertise is to produce special units that meet particular specifications, configurations and sizes that are non standard.

Each unit is constructed from a 'Pentapost' framework, comprising an aluminium frame and purpose built corners, for strength and style, with double skinned panels that provide a rigid construction for the units internal components.

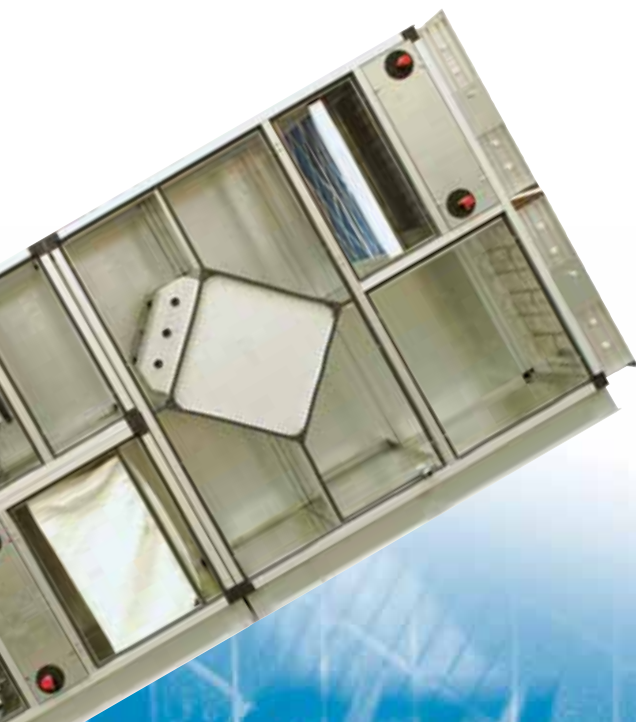
All units can be supplied as Flat-Pac when access to plant room or site location is limited.

Bespoke units can be tailored to suit most internal and external mounting applications, with a modular construction to facilitate a wide variety of options, including plate to plate recuperators, cooling coils, mixing box sections, humidifiers, dampers, filters, control panels, silencers and many more.

BESPOKE

FEATURES & BENEFITS

- * Excellent performance characteristics with Air volumes of up to 5.8 m³/sec
- * Flexibility in design with internal or external mounting units, and a comprehensive range of accessories.
- * Slide rails allow installation and regular maintenance of standard components with minimal effort.
- * Double skinned panels with smooth, clean lined outer skins to create an attractive, quality appearance and finish.
- * A flexible modular construction which provides an easier on site build option.
- * Controls within the range include starters, frequency inverters, damper actuators, temperature, pressure and humidity sensors, step controllers, frost protection, fan air flow, fan filter status switches and many more.
- * A framing structure which enables versatility in design by providing hanging, stacking or joining configurations.
- * Individual sections are joined by internal bolted joints, which makes on site installation easier and faster.
- * Matching silencers are available to fit onto the inlet or outlet of the unit via a spacer section.
- * Units can be supplied with various heat recovery options to reduce energy consumption.
- * All units can be supplied as Flat-Pac when access to plant room or site location is limited.
- * Channel base is fitted to all sections and lockable panels are optional.



Fastlane always sets out to understand the requirements of your application, offering a flexible design service to provide air handling units that match your precise requirements – A choice of construction arrangements and component sections enable Fastlane to accommodate building space restrictions, as well as those potential site handling and installation issues.

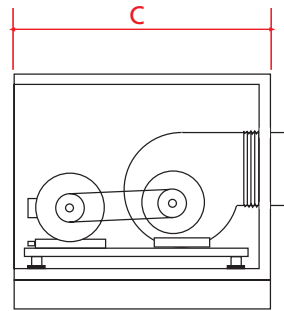
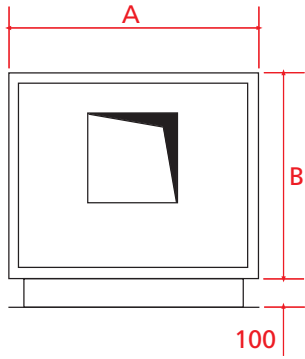


A perfect understanding of materials, components and technology – Streamlined, aesthetic and perfect in their simplicity, yet reliable performance, this is what Fastlane Air Handling Units are – Distinctive building services products born out of our commitment to even the smallest detail.

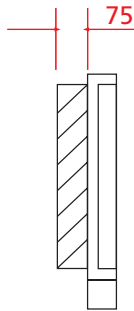


BESPOKE Air Handling Units

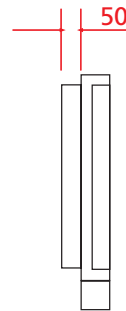
COMPONENT SECTIONS



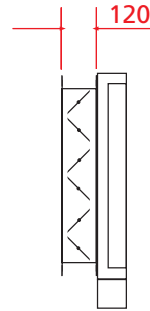
FAN SECTION



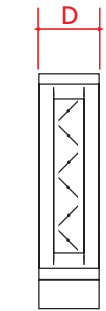
INTAKE LOUVRE



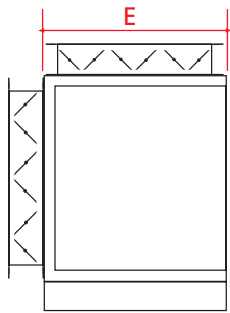
INTAKE SPIGOT



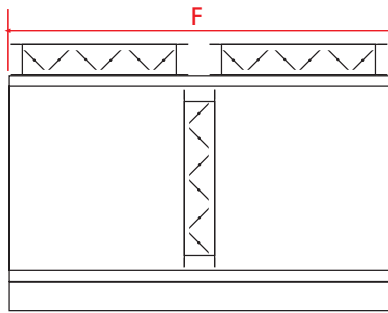
INTAKE DAMPER



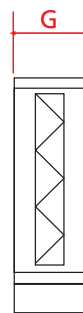
INTERNAL INTAKE DAMPER



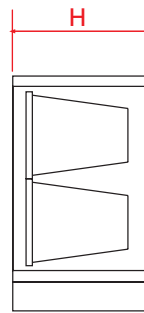
MIXING SECTION



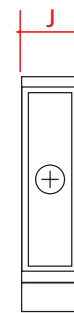
3 WAY MIXING SECTION



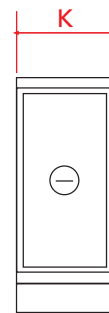
PANEL FILTER



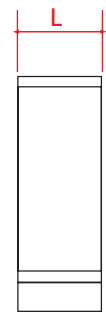
BAG FILTER



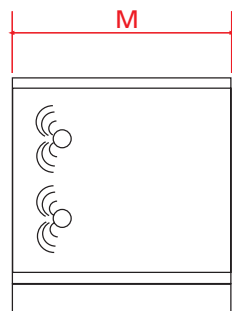
HEATER SECTION



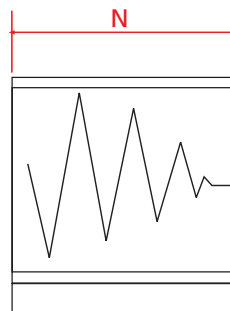
COOLER SECTION



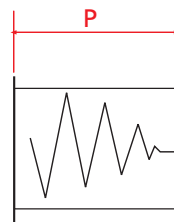
ACCESS / EMPTY SECTION



HUMIDIFIER SECTION



ATTENUATOR SECTION



DUCT MOUNTED ATTENUATOR

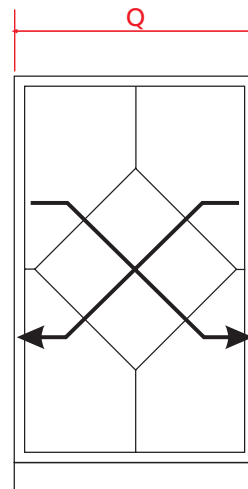
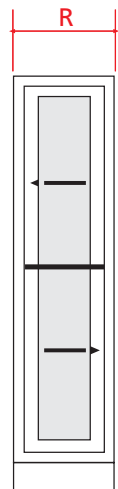


PLATE EXCHANGER HEAT RECOVERY SECTION



ROTARY WHEEL HEAT RECOVERY SECTION

BESPOKE Air Handling Units

COMPONENT DIMENSIONS & WEIGHTS

| Dimensions | Unit Size | | | | | | | | | | | |
|------------|---|------|------|------|-------|------|------|------|-------|------|------|-------|
| | SA30 | SA35 | SA40 | SA45 | SA45H | SA50 | SA55 | SA60 | SA60H | SA65 | SA70 | SA75H |
| A | 660 | 660 | 660 | 960 | 660 | 1270 | 1270 | 1270 | 960 | 1270 | 1570 | 1270 |
| B | 460 | 610 | 710 | 710 | 960 | 710 | 870 | 1030 | 1330 | 1330 | 1330 | 1660 |
| C | 860 | 960 | 960 | 1060 | 1060 | 1060 | 1200 | 1320 | 1320 | 1380 | 1380 | 1380 |
| D | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 300 | 300 | 300 | 300 | 300 |
| E | 310 | 360 | 460 | 460 | 560 | 490 | 590 | 690 | 890 | 890 | 890 | 1090 |
| F | 620 | 720 | 920 | 920 | 1120 | 980 | 1180 | 1380 | 1780 | 1780 | 1780 | 2180 |
| G | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 320 | 320 | 320 | 320 | 320 |
| H | 400mm long bag filter - section length 550mm 600mm long bag filter - section length 750mm | | | | | | | | | | | |
| J | LPHW or steam heater 1 - 2 Rows - section length 270mm LPHW or steam heater 3 - 4 Rows - section length 370mm Electric heater battery - section length 370mm Indirect gas fired heater - section length 700mm to 920mm | | | | | | | | | | | |
| K | 1 - 3 Rows - section length 300mm 4 - 6 Rows - section length 400mm 7 - 8 Rows - section length 450mm 9 - 10 Rows - section length 550mm Add 200mm if moisture eliminators are required | | | | | | | | | | | |
| L | 300mm - 750mm in 150mm increments | | | | | | | | | | | |
| M | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 |
| N | 300mm - 1800mm in 300mm increments | | | | | | | | | | | |
| P | 300mm - 1800mm in 300mm increments | | | | | | | | | | | |
| Q | 530 | 530 | 530 | 700 | 960 | 700 | 960 | 1190 | 1260 | 1260 | 1260 | 1260 |
| R | 450 | | | | | | 470 | | | | | |

N.B. All Dimensions are expressed in mm.

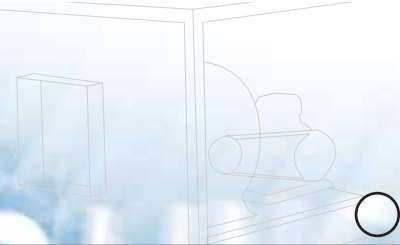
Units of alternate cross section are available if there is difficulty in fitting the standard unit into the plant space. Please contact Fastlane for further information

| Weights | Unit Size | | | | | | | | | | | |
|-------------------------------|-----------|------|------|------|-------|------|------|------|-------|------|------|-------|
| | SA30 | CS35 | SA40 | SA45 | SA45H | SA50 | SA55 | SA60 | SA60H | SA65 | SA70 | SA75H |
| Fan | 83 | 104 | 126 | 162 | 156 | 189 | 223 | 274 | 270 | 329 | 403 | 402 |
| Intake Louvre | 5 | 7 | 8 | 12 | 11 | 16 | 19 | 23 | 22 | 29 | 36 | 35 |
| Intake Damper | 8 | 10 | 12 | 18 | 16 | 23 | 29 | 34 | 33 | 44 | 54 | 53 |
| Internal Intake Damper | 33 | 39 | 43 | 60 | 53 | 75 | 87 | 102 | 97 | 123 | 148 | 145 |
| Mixing Section 2 Dampers | 42 | 53 | 64 | 86 | 88 | 108 | 139 | 160 | 174 | 214 | 249 | 274 |
| Mixing Section 3 Dampers | 61 | 76 | 98 | 128 | 135 | 162 | 205 | 245 | 284 | 341 | 395 | 442 |
| Panel Filter | 31 | 35 | 38 | 51 | 45 | 63 | 71 | 80 | 76 | 93 | 110 | 108 |
| Bag Filter 400mm Long | 45 | 51 | 55 | 71 | 66 | 87 | 96 | 106 | 102 | 123 | 143 | 141 |
| Bag Filter 600mm Long | 55 | 62 | 67 | 85 | 79 | 104 | 115 | 125 | 121 | 145 | 167 | 165 |
| LPHW or Steam Heater -2 Rows | 37 | 47 | 52 | 75 | 66 | 98 | 115 | 131 | 123 | 163 | 199 | 195 |
| Electric Heater Battery | 41 | 48 | 52 | 70 | 63 | 87 | 98 | 110 | 106 | 132 | 155 | 151 |
| Indirect Gas Fired Heater | 71 | 88 | 108 | 165 | 160 | 221 | 231 | 263 | 259 | 314 | 336 | 334 |
| Cooling Coil - 6 Rows | 62 | 82 | 93 | 140 | 124 | 185 | 224 | 262 | 245 | 335 | 416 | 408 |
| Access/Empty Section 600mm | 44 | 50 | 53 | 68 | 63 | 83 | 91 | 99 | 95 | 113 | 132 | 130 |
| Humidifier Section | 124 | 133 | 139 | 162 | 156 | 200 | 213 | 224 | 220 | 246 | 271 | 270 |
| Unit Silencer 600mm | 57 | 68 | 75 | 100 | 92 | 127 | 145 | 163 | 158 | 198 | 236 | 236 |
| Unit Silencer 900mm | 80 | 95 | 105 | 140 | 129 | 175 | 200 | 226 | 220 | 275 | 326 | 327 |
| Unit Silencer 1200mm | 104 | 122 | 136 | 179 | 167 | 224 | 256 | 290 | 282 | 351 | 416 | 419 |
| Unit Silencer 1500mm | 127 | 149 | 166 | 219 | 204 | 272 | 311 | 353 | 344 | 428 | 506 | 510 |
| Unit Silencer 1800mm | 150 | 176 | 196 | 259 | 241 | 320 | 366 | 416 | 406 | 505 | 596 | 601 |
| Duct Silencer 600mm | 13 | 13 | 17 | 26 | 26 | 39 | 53 | 68 | 68 | 85 | 101 | 101 |
| Duct Silencer 900mm | 19 | 20 | 26 | 39 | 39 | 59 | 80 | 102 | 102 | 127 | 152 | 152 |
| Duct Silencer 1200mm | 25 | 26 | 35 | 52 | 52 | 78 | 107 | 136 | 136 | 169 | 203 | 203 |
| Duct Silencer 1500mm | 32 | 33 | 44 | 65 | 65 | 98 | 134 | 170 | 170 | 212 | 254 | 254 |
| Duct Silencer 1800mm | 38 | 40 | 52 | 77 | 77 | 117 | 160 | 203 | 203 | 254 | 304 | 304 |
| Plate Exchanger Heat Recovery | 65 | 80 | 95 | 136 | 163 | 165 | 222 | 287 | 311 | 373 | 406 | 414 |
| Rotary Wheel Heat Recovery | 70 | 97 | 130 | 156 | 139 | 201 | 233 | 282 | 283 | 414 | 438 | 443 |

N.B. All weights are expressed in kg.

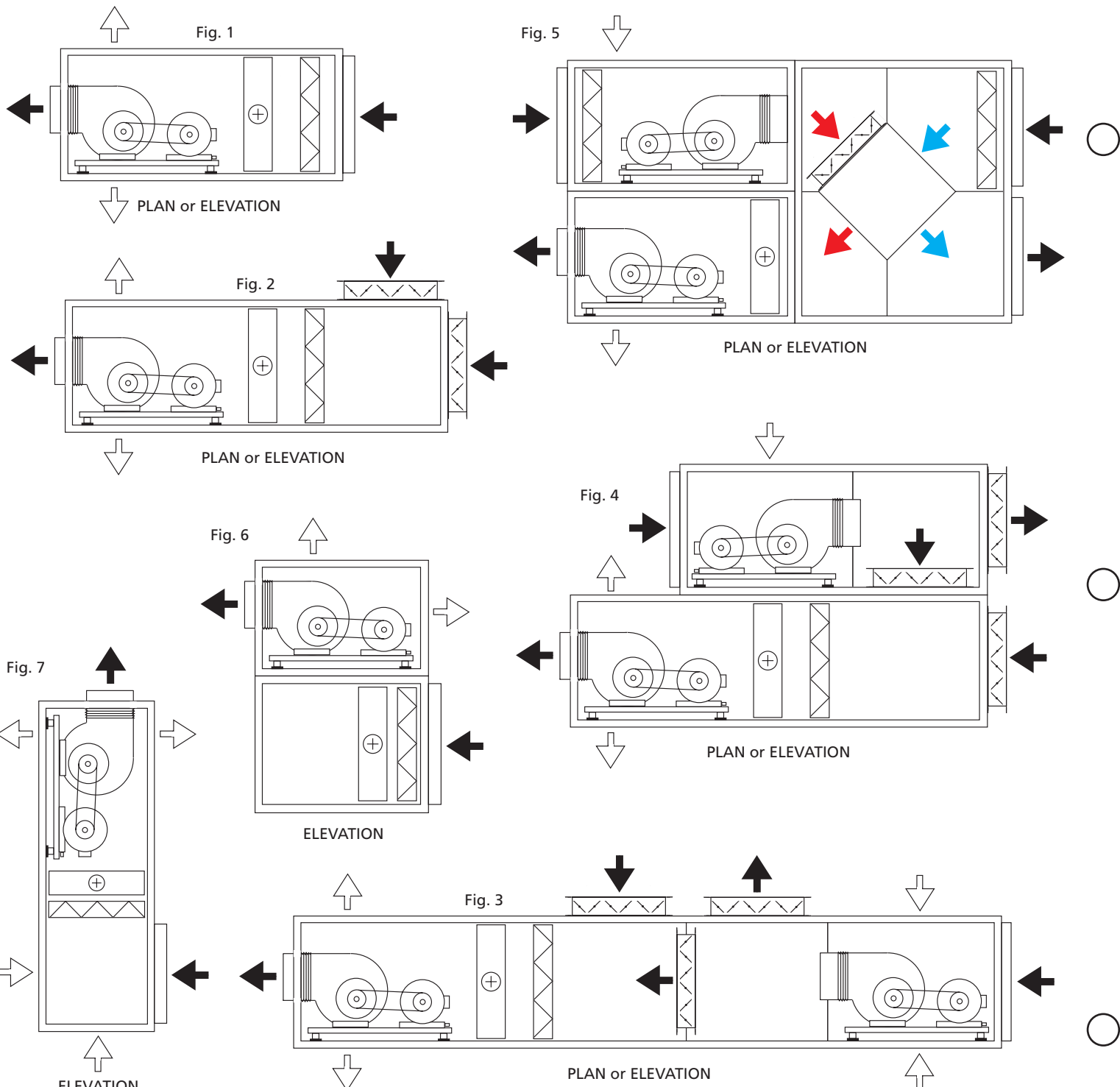
BESPOKE Air Handling Units

TYPICAL ARRANGEMENTS



Fastlane's choice of air handling units is based upon a series of standard components that can be combined into an array of different air handling units. The individual solution is selected from several pre-defined combinations, culminating in made to order air handling units, by assembling a special unit out of standard components.

The arrangements outlined below, provide an indication of Fastlane's 'Bespoke' capabilities.



N.B. Represents standard inlet/outlet spigots
 Represents alternate inlet/outlet spigots

BESPOKE Air Handling Units CERTIFIED DRAWINGS

Following receipt of a purchase order, Fastlane will issue a Certified Drawing, confirming air handling unit layout, all dimensions, access and any other appropriate technical information.

After written approval, the air handling unit is manufactured in accordance with the drawing.

Illustration of a typical certified drawing.

