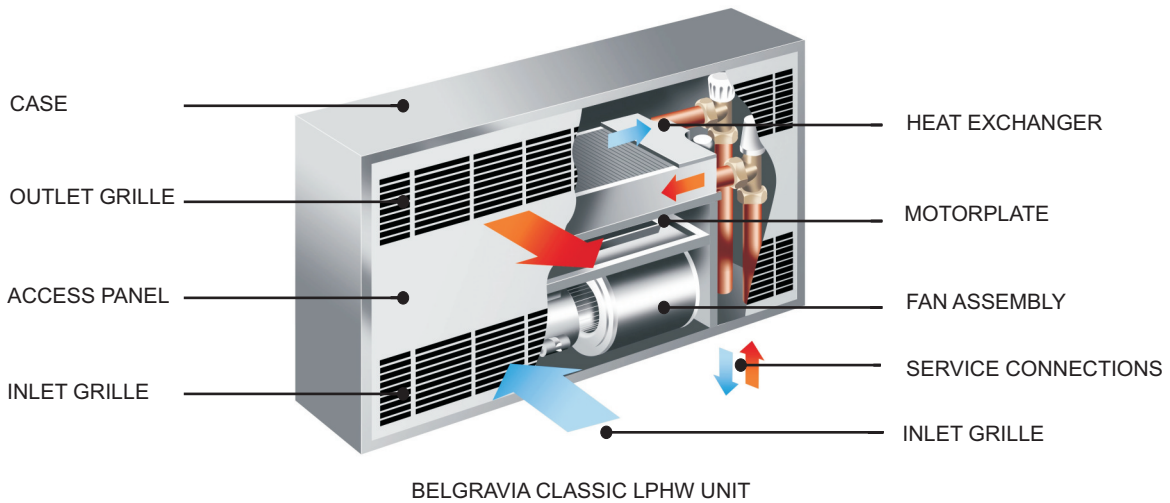


## BELGRAVIA Classic (Vertical Units) - Technical Data Sheet

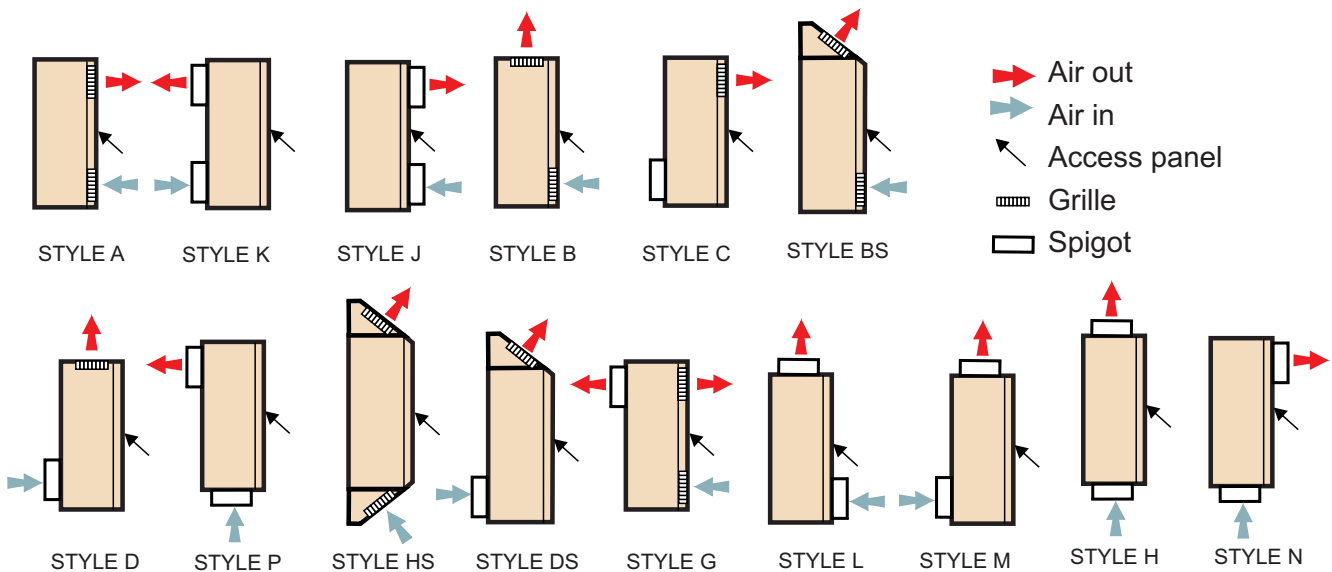
### BELGRAVIA CLASSIC: CONSTRUCTION

Each Belgravia Classic unit comprises a sheet metal case, fitted with inlet and outlet grilles and a removable access panel. The casing contains a fan assembly, motorplate, air filter, service connections and a heat exchanger. Heat output and fanspeed are controlled via a range of internal/remote switches and thermostats. A full list of these optional extras is offered in the Accessories section.

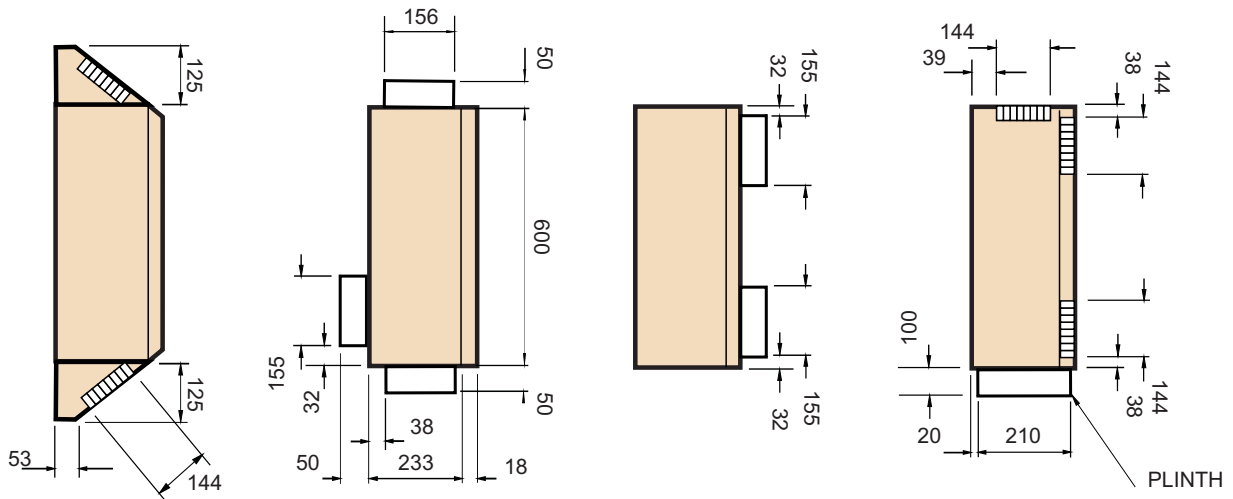


### BELGRAVIA CLASSIC: SIZES AND STYLES

Fifteen case styles of Belgravia Classic units are available, each comes in seven models, with extended cases also available. All case styles can have left-hand or right-hand coil connections with top or bottom pipe entry. The fifteen case styles are shown in the sketches below.



# BELGRAVIA CLASSIC: DIMENSIONS AND WEIGHTS



BELGRAVIA CLASSIC STANDARD DIMENSIONS

CASE DIMENSIONS - STANDARD CASE							
MODEL	BEL30	BEL40	BEL60	BEL75	BEL90	BEL115	BEL150
Length (mm)	694	694	894	1194	1194	1494	1494
Height (mm)	600	600	600	600	600	600	600
Depth (mm)	250	250	250	250	250	250	250
Spigot Length (mm)	640	640	840	1140	1140	1440	1440

CASE DIMENSIONS - EXTENDED CASE							
MODEL	BEL30	BEL40	BEL60	BEL75	BEL90	BEL115	BEL150
Length (mm)	894	894	1194	1494	1494	1694	1694
Height (mm)	600	600	600	600	600	600	600
Depth (mm)	250	250	250	250	250	250	250
Spigot Length (mm)	840	840	1140	1440	1440	1640	1640

WEIGHTS AND CONNECTIONS							
MODEL	BEL30	BEL40	BEL60	BEL75	BEL90	BEL115	BEL150
Max Weight (kg)	30	32	36	45	45	57	57
Pipe Connections (BSP)	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

## BELGRAVIA CLASSIC: OPTIONS AND ACCESSORIES

A range of optional accessories are available for Belgravia Classic Units, the most popular are shown below.

FACTORY FITTED ACCESSORIES		
	Reference	Function
Thermostat	LTC	Low water temperature fan cutout
	ALTC	Adjustable low water temperature fan cutout
	T1	In-built on-off control
	T2	In-built change speed control
	T1 - T2	Combined on-off/change speed control
	RT1	Remote mounted on-off control
	RT2	Remote mounted change speed control
	TLX1	Tamper-proof on-off stat
	TLX2	Tamper-proof change speed stat
	2STAGE	2 Stage thermostat

## BELGRAVIA CLASSIC: OPTIONS AND ACCESSORIES CONTINUED

Switches*	RS1	On-off rocker switch
	RS2	Summer-winter switch
	RS3	Three speed rocker switch
	RS12	Combined on-off / summer-winter rocker switch
	RS13	Combined on-off / change speed rocker switched
	RS123	Combined on-off, summer-winter & change speed rocker switch
	RS23	Combined summer-winter / change speed rocker switch
	MS	Access panel micro switch (unit cutout)
	KOS	Key operated on-off switch
	BOX1F	Metal flush mounting box for single rocker switch
	BOX1S	White plastic surface mounting box for single rocker switch
	BOX2F	Metal flush mounting box for combined rockers switches
	BOX2S	White plastic surface mounting box for combined rocker switches
Controllers	VSP	Variable speed controller
	VSPR	Variable speed controller, remote sensor and connection box
Electrical Connections	FSB	Fuse spur box
	CCB	Customer connection box
Heat Exchanger	AL	Low hydraulic resistance heat exchanger
	ST	Steam heat exchanger
	3ROW	Extra large heat exchanger (3 row coil)
Air-side Options	EAV	Extended air vent
	RAF	Reversed airflow
	AF1	Air filter fitted between fan deck and coil
	AF2	Air filter fitted to behind the inlet grille
	AF3	Air filter covering the inlet grille fitted to the motorplate
	MOD	Manually operated damper
	POD	Power operated damper
Case Options & Accessories	SPF	Special Paint Finish
	P	Plinth
	LAP	Lockable access panel
	TAP	Tamper proof access panel
	HAP	Hinged access panel
	EXTC	Extended casing
	LGA	Loose grille assembly
	REP	Rounded end panel
	SFP	Stiffened front panel
	SWF	Special white finish
	WEP	Wooden end panels (Teak)
	WS	Wood surround (Teak)
	MTRLV	Motrol diverting valve
WM	Wall mounted stiffners	

NOTES: 1. Switches are available as case mounted, built-in to the unit or remote mounted.

# BELGRAVIA CLASSIC: PERFORMANCE DATA

PERFORMANCE DATA																
Fan Setting		Boost					Medium					Low				
Performance		Air Flow Rate l/s	Output kW	Exit Air Temp °C	Pressure Drop kPa	Water Flow Rate l/s	Air Flow Rate l/s	Output kW	Exit Air Temp °C	Pressure Drop kPa	Water Flow Rate l/s	Air Flow Rate l/s	Output kW	Exit Air Temp °C	Pressure Drop kPa	Water Flow Rate l/s
Model	BEL 30	155	3.9	36.0	0.5	0.09	124	3.5	38.5	0.4	0.08	99	2.9	39.4	0.3	0.07
	BEL 40	140	5.8	49.5	1.1	0.14	112	5.0	52.2	0.8	0.12	89	4.2	54.3	0.6	0.10
	BEL 60	236	9.3	47.8	3.0	0.22	172	7.3	50.4	1.9	0.17	105	5.2	56.3	1.0	0.12
	BEL 75	280	11.6	49.5	5.3	0.28	189	8.5	52.5	2.9	0.20	110	5.9	59.7	1.7	0.14
	BEL 90	317	13.0	49.2	6.3	0.31	231	10.3	52.2	4.3	0.25	120	6.8	62.2	1.9	0.16
	BEL 115	248	13.5	60.4	7.7	0.32	188	10.8	62.9	5.3	0.26	128	8.1	67.7	3.0	0.19
	BEL 150	329	15.9	55.3	10.4	0.38	289	14.6	57.1	9.0	0.35	180	10.7	64.5	4.9	0.25

NOTES: 1. Based on 80/70/15°C

CORRECTION FACTORS														
Mean Water Temperature °C		80			70			60			50			
Water Temperature Drop °C		5	10	20	5	10	20	5	10	20	5	10	20	
Entering Air Temperature °C	10	1.19	1.16	1.12	1.02	0.99	0.95	0.84	0.80	0.76	0.66	0.63	0.53	
	15	1.11	1.08	1.04	0.93	0.91	0.87	0.76	0.73	0.66	0.58	0.55	0.42	
	20	1.04	1.00	0.96	0.85	0.83	0.79	0.68	0.64	0.57	0.46	0.46	-	
	25	0.95	0.92	0.88	0.77	0.75	0.70	0.59	0.56	0.46	0.41	0.37	-	

NOTES: 1. This data is based on the standard 2 row coil (3 row is available upon request)

# BELGRAVIA CLASSIC: NOISE DATA

NR LEVELS				
Fan Setting		Boost	Medium	Low
Model	BEL 30	46	39	33
	BEL 40	45	38	32
	BEL 60	46	41	35
	BEL 75	44	38	33
	BEL 90	43	37	32
	BEL 115	42	39	34
	BEL 150	45	44	39

NOTES: 1. NR levels are based on a room volume that would normally be heated by a single unit of each size shown; 2. Reverberation time of the room is taken to be 0.4 seconds.; 3. The listener is assumed to be standing in the middle of the room; 4. The unit is assumed to be wall mounted

# BELGRAVIA CLASSIC: FAN ASSEMBLY ELECTRICAL DATA

230 V / 50 Hz Supply										
Fan Setting		High			Medium			Low		
Performance		Airflow (l/s)	EC power draw (W)	EC SPF (W/l/s)	Airflow (l/s)	EC power draw (W)	EC SPF (W/l/s)	Airflow (l/s)	EC power draw (W)	EC SPF (W/l/s)
Model	BEL 30	155	34	0.22	124	20	0.16	99	13	0.13
	BEL 40	140	27	0.19	112	16	0.14	89	11	0.12
	BEL 60	223	84	0.38	184	53	0.29	108	15	0.14
	BEL 75	280	53	0.19	189	23	0.12	110	19	0.17
	BEL 90	317	73	0.23	231	34	0.15	120	18	0.15
	BEL 115	248	40	0.16	188	23	0.12	128	18	0.14
	BEL 150	329	80	0.24	289	58	0.20	180	22	0.12

## BELGRAVIA CLASSIC: ENGINEERING SPECIFICATION

The Belgravia Classic fan convectors shall be manufactured by S & P Coil Products Ltd, SPC House, Evington Valley Road, Leicester. The heaters shall be suitable for the applications as described in the literature, dependent on the model selected. The quantities and model references shall be as indicated in the schedule, with the constructional features complying to the under-mentioned specification.

<b>Case</b>	The case shall be manufactured from medium gauge mild steel throughout, and designed to eliminate distortion and drumming by the use of fully-trayed panels, welded together to form a rigid structure, avoiding any raw edges. The detachable access panel shall be fully-trayed and supported, and be retained by two concealed fasteners. Adequate room is to be provided to house manually operated flow and return valves.
<b>Finish</b>	The metal case shall be degreased and treated with an approved rust-inhibiting and priming process, followed by final coats of colour-specified stove enamel or powder coat finish. Motors to be finished in air-drying paint.
<b>Grilles</b>	Integral or loose grilles to be of linear pattern complying with BSEN 60335, manufactured from extruded aluminium with treated finish. Loose grilles shall have a flange surround, painted as required.
<b>Attachable plinth</b>	Plinth, where called for, shall be manufactured from heavy gauge mild steel, treated and paint-finished to suit.
<b>Filters</b>	Filters shall be a washable-type Bondina P15/150 non-woven polyamide, or equivalent, bonded with synthetic resin, and rated at EU2 arrestance complying with BSEN 779. Filters should be removable for cleaning.
<b>Heat exchangers</b>	The heat exchanger shall be of block fin construction, comprising aluminium fins mechanically bonded to copper primary tubes brazed, in turn, into steel headers having BSP horizontal female flow and return connections at the same end, and rated in accordance with BS 5141. 1/8" BSP air bleed and drain connections to be provided as standard, except on heat exchangers for use with steam.
<b>Test pressure</b>	The heat exchanger shall be tested to 22 bar (2,200kPa) air under water.
<b>Working pressure</b>	All heat exchangers to be suitable for a maximum working pressure of 10 bar (1,000 kPa).
<b>Motor plate, fan &amp; motor assembly</b>	The motor plate assembly shall be readily withdrawable for ease of maintenance, being resiliently mounted on guide rails. Ceiling mounted units should have motor plates fixed by nylock retaining nuts.
<b>Fans</b>	The fan(s) shall be of the double inlet, centrifugal type with forward curved blades. The impeller and scroll shall be from galvanised sheet steel and the impeller shall be directly mounted on the external rotor motor. One or two fans shall be used according to size.
<b>Motors</b>	The motor shall be of the electronically commutated external rotor type with inbuilt electronics enclosure. The motor will incorporate maintenance free ball bearings. Motors shall be IP44 and insulation class B rated. Rotational speed shall be controlled via a 0 to 10V signal to the terminal block of the motor.
<b>Wiring &amp; controls</b>	Provision shall be made for internal wiring with selected control options, and an internally mounted customer connection box shall be provided for interfacing remote options to the unit. All internal wiring shall be rated heat-resistant cable. Mains connection shall be provided by means of a 2-metres long flying lead, to which a suitable plug can be attached. Unit motors to be suitable for operation with a standard single phase 230V/50Hz supply.
<b>Packaging</b>	Each fan convector shall be despatched in a purpose-made carton which will be clearly marked with the unit model reference and instructions called for in the schedule.
<b>CE Marking</b>	The fan convector shall comply with all relevant EU directives currently in force.

*S & P Coil Products Ltd reserve the right to amend specification whilst pursuing a policy of continual improvements in performance and design.*