



Belgravia Classic and Supreme fan convector units for low water temperature applications

Conventional coil heat exchangers fitted to fan convector units are designed for operation against traditional boiler supply temperatures of around 80°C.

Increasingly, lower temperature hot water, more efficiently generated by heat pumps or condensing boilers, is being utilised and coil heat exchangers have evolved to allow meaningful outputs to be generated by fan convectors operating against these lower water temperatures.

The tables below give details of the outputs obtainable from the range of Belgravia Supreme and Classic units equipped with enhanced low water temperature coils.

Table 1. Performance at 50/40°C water, 18°C space

Speed	Low			Medium			High		
Unit size	kW	l/s	kPa	kW	l/s	kPa	kW	l/s	kPa
BEL/SPR40*	2.3	0.06	2.3	2.8	0.07	3.1	3.3	0.08	4.2
BEL/SPR60	2.2	0.06	0.4	3.5	0.09	0.8	4.5	0.11	1.2
BEL/SPR90	3.0	0.07	0.7	5.1	0.12	1.8	6.3	0.15	2.6
BEL/SPR150	5.2	0.13	2.2	7.7	0.19	4.3	8.5	0.21	5.1

Table 2. Performance at 45/35°C water, 18°C space

Speed	Low			Medium			High		
Unit size	kW	l/s	kPa	kW	l/s	kPa	kW	l/s	kPa
BEL/SPR40*	1.7	0.04	1.4	2.1	0.05	2.0	2.5	0.06	2.7
BEL/SPR60*	2.3	0.06	2.6	3.3	0.08	5.1	4.1	0.10	7.4
BEL/SPR90	2.1	0.05	0.4	3.8	0.09	1.1	4.8	0.12	1.7
BEL/SPR150	4.1	0.10	1.5	6.1	0.15	3.0	6.8	0.17	3.5

Table 3. Performance at 50/35°C water, 18°C space

Speed	Low			Medium			High		
Unit size	kW	l/s	kPa	kW	l/s	kPa	kW	l/s	kPa
BEL/SPR40*	0.8	0.01	0.1	1.9	0.03	0.8	2.4	0.04	1.2
BEL/SPR60*	2.3	0.04	1.3	3.5	0.06	2.7	4.4	0.07	4.0
BEL/SPR90*	3.0	0.05	2.4	4.8	0.08	5.7	6.0	0.10	8.2
BEL/SPR150	4.3	0.07	0.8	6.5	0.11	1.6	7.2	0.12	1.9

Note. Selections marked * use the 'lowflow' coil with 1/2" pipe connectors, other selections are based on the 'enhanced' coil with 3/4" pipe connectors.