

# Biddle

# FORCEFLOW

## H2 Select Fan Convectors

The H2 Select fan convector is available in 21 styles as standard and other styles and configurations on request. Easy to install and simple to maintain, the H2 Select fan convector can be mounted almost anywhere on the wall or ceiling, either as an exposed/cased or concealed/recessed unit.

### BENEFITS:

- Non-handed casing allows the handing of the unit to be changed on site
- Detachable top panel creates more space for the fitting of valves
- Removable fan/motor assembly provides easy access to the back pipe connections
- When the fans are turned off, the natural convective heat emission is at circa 15% of the medium fan speed emissions
- Increased internal space speeds up installation
- Horizontal coil header allows angled valves to be fitted
- EU3 grade disposable panel filter simplifies maintenance
- Low noise levels
- Quick heat up
- Good heat distribution
- Simple to install
- Various control options
- Variety of casing options

### CONTROLS & ACCESSORIES

The Forceflow H2 Select has 3 fan speeds and is supplied as standard with:

- On/off thermostat (T1)
- Built-in on/off, fan speed and summer/winter rocker switches
- Medium/Low speed change thermostat (T2)
- Low water temperature cut-out thermostat (T4)
- White textured paint finish (RAL 9010)
- EU3 grade disposable panel filter
- A screw-fixed access panel
- Discharge and return air grilles
- Horizontal 3/4" BSP female pipe connections

### OPTIONAL:

- Adjustable or tamperproof remote thermostats
- Adjustable low water temperature cut-out thermostat (T4)
- Pencil and finger proof grilles
- Group control and fan enable relays
- 100mm high plinth
- Key lockable access panel
- Metal framed EU2 grade nylon non-woven filter
- Special paint colour
- Pre-fitted radiator and lockshields valves

### HOW IT WORKS

The H2 Select fan convector range needs little user interaction. In 'Winter' mode, when the low temperature cut-out thermostat (T4) senses hot water in the coil the unit will operate. Then, by measuring the room temperature (T1 & T2 thermostats) the unit automatically cycles between low/medium speed and on/off, depending upon the actual versus desired room condition. When the boiler is switched off the T4 thermostat will also turn off the fan convector. In 'Summer' mode, the unit continually re-circulates ambient air.

## PERFORMANCE TABLE

Model	Fan speed	Air volume (l/s)	Heating duty (kW)	Noise level** (NR)	Leaving air temp (°C)	Full load current (Amps)	Coil water pressure drop (kPa)	Water flow rate (kg/s)
915-H2	High	118	4.65	40	53	0.33	0.83	0.10
	Medium	87	3.80	35	56	0.28	0.61	0.08
	Low	59	3.02	27	62	0.21	0.41	0.07
930-H2	High	190	7.81	41	54	0.49	2.64	0.17
	Medium	176	7.32	35	54	0.48	2.10	0.16
	Low	104	5.75	25	66	0.43	1.29	0.12
935-H2	High	254	10.50	43	54	0.45	4.75	0.23
	Medium	202	9.10	35	57	0.42	3.55	0.20
	Low	136	7.08	24	63	0.38	2.49	0.15
940-H2	High	318	14.48	42	58	0.50	10.1	0.31
	Medium	249	12.50	35	62	0.43	8.25	0.27
	Low	164	9.62	30	69	0.39	4.24	0.21
975-H2	High	465	19.92	46	55	1.70	4.69	0.43
	Medium	408	17.90	37	56	0.91	2.64	0.39
	Low	250	13.15	29	64	0.74	1.70	0.28

\*Based on Entering Air Temperature of 20°C and Water Temperatures of 82°C Flow and 71°C Return. \*\*Noise levels are for guidance only

## MINIMUM WATER FLOW RATE

Model	Minimum water flow rate (kg/s)
915-H2	0.025
930-H2	
935-H2	
940-H2	
975-H2	0.045

## CORRECTION FACTORS

F&R temperature	Entering air temperature				
	23°C	21°C	20°C	18°C	16°C
80/60°C	0.77	0.81	0.83	0.897	0.90
70/50°C	0.59	0.63	0.65	0.68	0.72

## HOW TO SPECIFY YOUR PRODUCT

Placing an order couldn't be easier, simply tell us the model size, followed by the range and the casing style. For example 915 (Model size) H2 (Range) FS2 (Casing style).

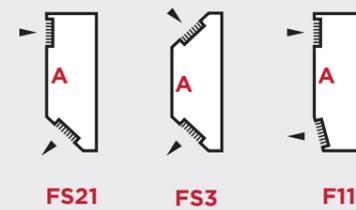


FS2 style with optional pencil and finger proof grille

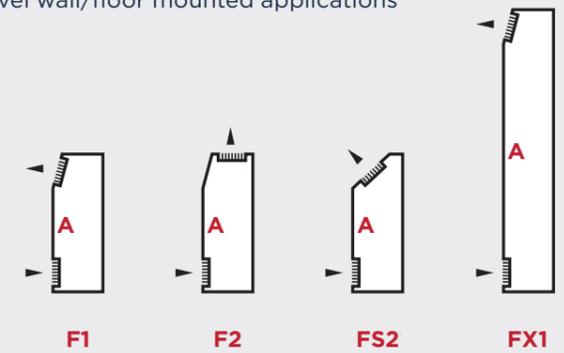


FS21 style with standard grille

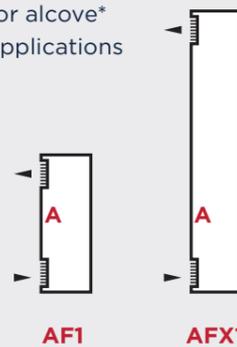
Inverted Exposed/  
Cased for high level wall  
mounted applications



Vertical Exposed/Cased for freestanding low  
level wall/floor mounted applications



Exposed/Cased  
for alcove\*  
applications



\*with bevelled or square ends

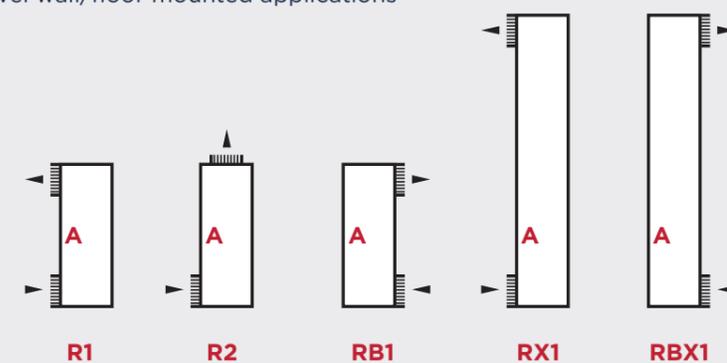
Horizontal Exposed/Cased for ceiling mounted applications



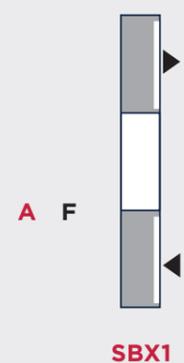
Horizontal Concealed/Recessed for ceiling void applications



Vertical Recessed for Concealed low  
level wall/floor mounted applications



Sectional

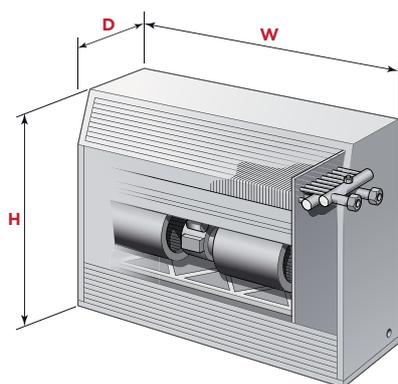


# DIMENSIONS

## VERTICAL STYLES

Model	'D'	'W'			
		All Vertical Styles	Exposed/Cased	Alcove (bevelled ends)	Alcove (square ends)
915	207	805	805	750	750
930	207	1055	1055	1000	1000
935	207	1305	1305	1250	1250
940	207	1555	1555	1500	1500
975	250	1805	1805	1750	1750

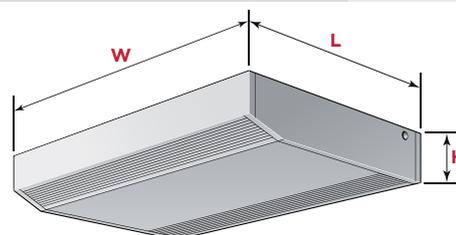
Style	'H'
F1, F2, FS2, AF1 (with bevelled ends), F11, FS21	660
AF1 (with square ends)	600
FS3	810
FX1, AFX1	1850
R1, R2, RB1	600
RX1, RBX1	1850



## HORIZONTAL STYLES

Model	'H'		'W'	
	All Horizontal Styles (except CR1, CR2)	CR1 & CR2	Exposed/Cased	Concealed/Recessed
915	207	290	805	750
930	207	290	1055	1000
935	207	290	1305	1250
940	207	290	1555	1500
975	250	333	1805	1750

Style	'L'
C1, C2, CS2	660
CS3	810
CR3	600
CR2	743
CR1	886



## UNIT WEIGHT

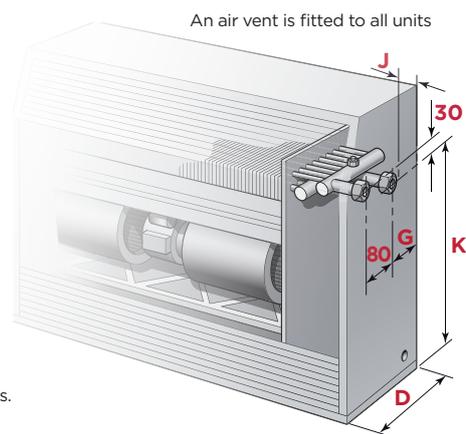
Unit	915	930	935	94	975
Approx. operating weight kg units 600 or 660mm high	29	39	45	52	66
Approx. operating weight kg units 1850mm high	49	65	75	88	109

## PIPE CONNECTIONS

### RC 3/4 (3/4" BSP EXTERNAL)

Model	D	G	J		K	
			Exposed/Cased	Concealed/Recessed	Exposed/Cased	Concealed/Recessed
915	207	64	158	130	409	396
930	207	64	158	130	409	396
935	207	64	158	130	409	396
940	207	64	158	130	409	396
975	250	86	158	130	409	396

Standard pipe entry is through the base, apart from CR1, CR2 and CR3 style units when pipe entry is through the side. If required, pipe entry through the top may be available on some styles. The flow header connection should be on the air leaving side of the coil.



For further detailed dimensional details for specific model types, please contact the Biddle Sales office.

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