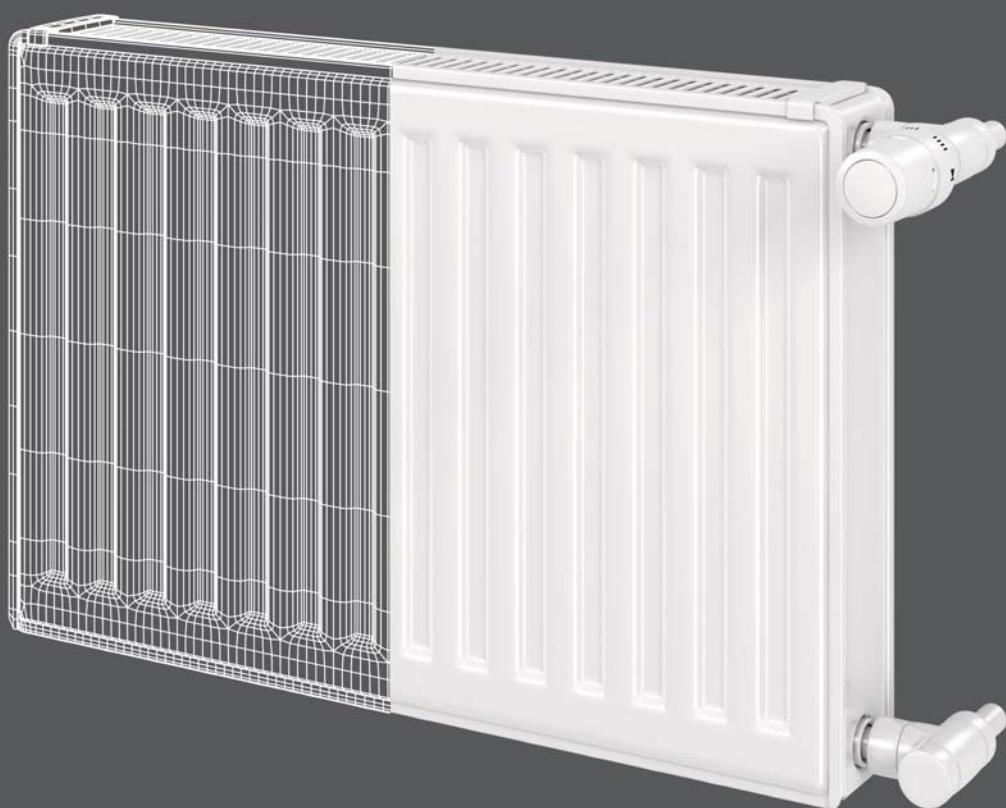




VIENNALINE Compact.



General Specifications

Approval and Certification

VOGEL&NOOT offers strong products that meet the highest quality standards during manufacture and operation. All information on the quality and performance of **VOGEL&NOOT** panel radiators is verified and confirmed by recognised European institutions on an ongoing basis, thereby guaranteeing the highest level of heating performance and optimum product quality.



When used in systems designed and installed in accordance with the good practice recommendations given in the 'Application' section, the **VOGEL&NOOT VIENNALINE Compact** range carries a ten year guarantee from date of purchase against defects caused by faulty materials or manufacture. However, failure to pay attention to these recommendations (in new or existing systems) may invalidate the manufacturer's warranty.



need to be taken into consideration including the fixing method used to secure the radiator to the wall, the type and condition of the wall itself, and any additional potential forces or weights that may happen to be applied to the radiator, prior to finalising installation. **IN ALL CASES IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

PLEASE NOTE: The fixing materials provided are only intended for installation on walls made of solid wood, bricks, concrete or on timber-frame stud walls where the fixing is into the timber. All walls being considered should have no more than a maximum of 3mm wall finishing. For walls made of other materials, for example hollow bricks, please consult your installer and/or specialist supplier. **ONCE AGAIN, IF YOU ARE UNSURE, IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

Each radiator is supplied complete with wall fixing brackets, blanking plug, air vent plug and vent key.

Connections

All **VIENNALINE Compact** radiators are fitted with 4 x 1/2" BSP connections.

Operating Pressures

Every **VIENNALINE Compact** radiator is tested to a pressure of 13 bar (189 psi) and is suitable for a working pressure of up to 10 bar (145 psi).

Application

VIENNALINE Compact radiators are for use in indirect or closed circuit heating systems only, which have been properly designed and installed in accordance with the recommendations of BS EN 12828:2003 or BS EN 12831:2003. In open-vented systems, special attention should be paid to the correct location of the pump in relation to the cold feed and vent pipe connections, to avoid ingress of air or water discharge through the open vent.

All installation work should be carried out in accordance with recognised good practice to ensure long life. In particular, careful attention should be paid to the following:

- Soldered joints should be made with a minimum amount of solder and flux. Choose a flux which is readily soluble in water.
- Copper pipes should be cut and cleaned in such a way as to avoid small copper particles being left in the system (this can lead to electrolytic action and eventual corrosion in the radiator).
- Corrosion inhibitors should be used strictly in accordance with the manufacturer's instructions.

Individual installation instructions are supplied in each radiator package.

Safety Precautions

Radiators are hot when in use, and as such, present a risk of burns to users on prolonged contact. The temperature of a radiator is dependent on the temperature of the system water, as set by the system installer or user. Installers and users should ensure that those who may come into close proximity to hot radiators are aware of the risk of burns. Installers and users should take all necessary steps to minimise the risks of burns. If the risk is significant, consideration should be given to installing low surface temperature radiators, or to placing guards in front of the radiators.

Material and Paint Finish

Every **VIENNALINE Compact** radiator is subjected to a thorough painting process involving degreasing, phosphating and primer coating (stoved) prior to the final finishing coat of white semi-gloss epoxy paint, which is cured at 210°C. Colour options are available, see pages 36 & 37, for a small extra charge and with a 6-8 week delivery lead time. This means that **VIENNALINE Compact** radiators can be installed without further painting, although if desired (e.g. colour change), overpainting can be carried out using a good quality, oil-based gloss paint. Additionally, white touch-up paint is available.

VIENNALINE Compact radiators are made of cold-rolled sheet steel, and in accordance with EN 442-1, with stylish and robust waterways at 40 mm intervals.

Packaging

All our radiators are individually wrapped in heavy duty polythene shrink-wrapping and are clearly marked externally with type and size. The radiator panels are also wrapped in cardboard and all corners are further protected with preformed caps.

The packaging is designed to enable full fitting and assembly of radiators into the heating system, without removal of the protective packaging - a real plus point for new building installations. Radiators left protected in this way can be filled and run up to 40°C during initial cleaning and commissioning of the heating system.

Fixings

All **VIENNALINE Compact** radiators are supplied with concealed wall mounting brackets. The table of dimensions on page 8 gives further details.

For the correct installation of radiators it is essential that the fixing of the radiator is carried out in such a way that it is suitable for intended use AND predictable misuse. A number of elements

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General Specifications & Technical Information

General Specifications (continued...)

Distinguished by the ECO seal of quality



The panel radiators from **VOGEL&NOOT** bear the ECO seal of quality, which stands for all-round compatibility with all (renewable) energy sources. It guarantees that the radiators can be operated in an economical and ecologically-sound manner, with significant savings on heating costs (an average of 15%*) and an enormous reduction in CO₂ emissions.

*On average, in comparison with old sectional radiators, test results based on data from Pinkafeld University of Applied Sciences.

Heat Output

The **VIENNALINE Compact** range has an advanced design giving high efficiency characteristics. The high outputs per unit surface area for the convector models have been achieved by ensuring excellent contact between the convector plates and both the water channels and dividing metal of the radiator panels. The convector surface is spot-welded to the metal channels and fits neatly into grooves on the water channels, thus ensuring high heat transfer rates.

The radiator outputs quoted in this brochure are based on a mean water temperature in the radiator of 70°C (158°F) and a room temperature of 20° (68°F) - Delta T50.

For other operating conditions - i.e. differences between mean water temperature and room temperature other than 50°C - the correction factors below should be applied (see example right).

| Centigrade | Factor | Fahrenheit |
|------------|--------|------------|
| 15°C | 0.21 | 27°F |
| 20°C | 0.30 | 36°F |
| 25°C | 0.41 | 45°F |
| 30°C | 0.51 | 54°F |
| 35°C | 0.63 | 63°F |
| 40°C | 0.75 | 72°F |
| 45°C | 0.87 | 81°F |
| 50°C | 1.00 | 90°F |
| 55°C | 1.13 | 99°F |
| 60°C | 1.27 | 108°F |
| 65°C | 1.41 | 117°F |
| 70°C | 1.55 | 126°F |

An example of radiator selection at a non-standard temperature difference is given below:

Example:

Heat emission required: 2000 Watts

Room air temperature required: 20°C

Mean water temperature in radiator: 65°C

1. Temperature difference = 65-20 = 45°C

2. From Factor Table 45°C gives a factor of: 0.87

3. Divide required heat emission
by factor = $\frac{2000}{0.87} = 2298$ Watts

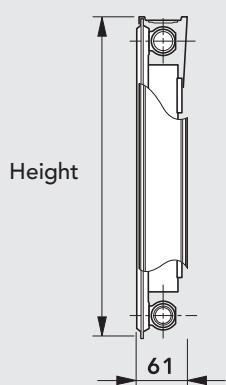
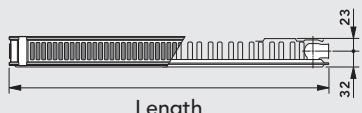
4. From selection tables choose any
radiator rated at 2298 Watts or more.

In accordance with BSEN 442: 1997, the heat output figures in this leaflet have been derived from tests made with top and bottom same side connection (T.B.S.E.). When bottom opposite end connections are used (B.O.E.), there will be a small reduction in heat output.

Weight and Water Content per Metre Length (approx.)

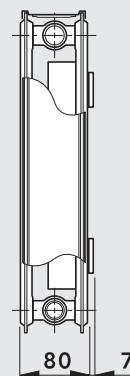
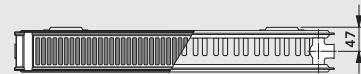
| Type | Height (mm) | | | | | | | | | |
|-------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|
| | 300 | | 400 | | 500 | | 600 | | 750 | |
| | Water Content (l) | Weight (kg) |
| K1SPG | 2.00 | 10.52 | 2.60 | 13.93 | 3.30 | 15.81 | 3.70 | 17.57 | 4.40 | 22.56 |
| P+ | 3.90 | 15.81 | 5.00 | 20.92 | 6.10 | 24.63 | 7.10 | 28.14 | 8.60 | 35.63 |
| K2 | 3.90 | 18.83 | 5.00 | 25.39 | 6.10 | 29.14 | 7.10 | 32.68 | 8.60 | 42.47 |
| K3 | 6.00 | 28.10 | 7.60 | 38.14 | 9.40 | 43.75 | 10.80 | 49.07 | N/A | N/A |

Model Overview

**K1SPG**

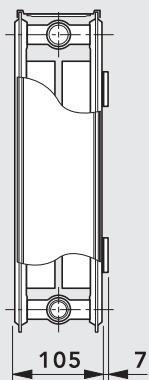
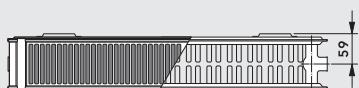
(Single Panel, Single Convector with Factory Fitted Top Grille and Side Panels)

| Height (mm) | 300 | 400 | 500* | 600* | 750* |
|-------------|---|-----|------------|------|------------|
| Length (mm) | up to 2000 | | up to 2600 | | up to 2000 |
| Steps | All lengths start at 400mm and are in increments of 200mm. *Also available in some lengths of 520, 720, 920, 1120 and 1320mm. | | | | |

**P+**

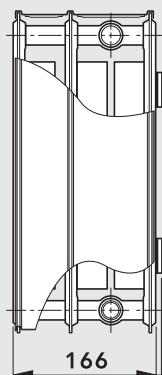
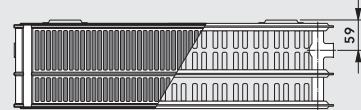
(Double Panel, Single Convector with Factory Fitted Top Grille and Side Panels)

| Height (mm) | 300 | 500* | 600* | 750* | |
|-------------|---|------|------------|------------|--|
| Length (mm) | up to 2000 | | up to 2200 | up to 2000 | |
| Steps | All lengths start at 400mm and are in increments of 200mm. *Also available in some lengths of 520, 720, 920, 1120 and 1320mm. | | | | |

**K2**

(Double Panel, Double Convector with Factory Fitted Top Grille and Side Panels)

| Height (mm) | 300 | 400 | 500* | 600* | 750* |
|-------------|---|------------|------------|------------|------|
| Length (mm) | up to 3000 | up to 2000 | up to 2600 | up to 2000 | |
| Steps | All lengths start at 400mm and are in increments of 200mm. *Also available in some lengths of 520, 720, 920, 1120 and 1320mm. | | | | |

**K3****

(Triple Panel, Triple Convector with Factory Fitted Top Grille and Side Panels)

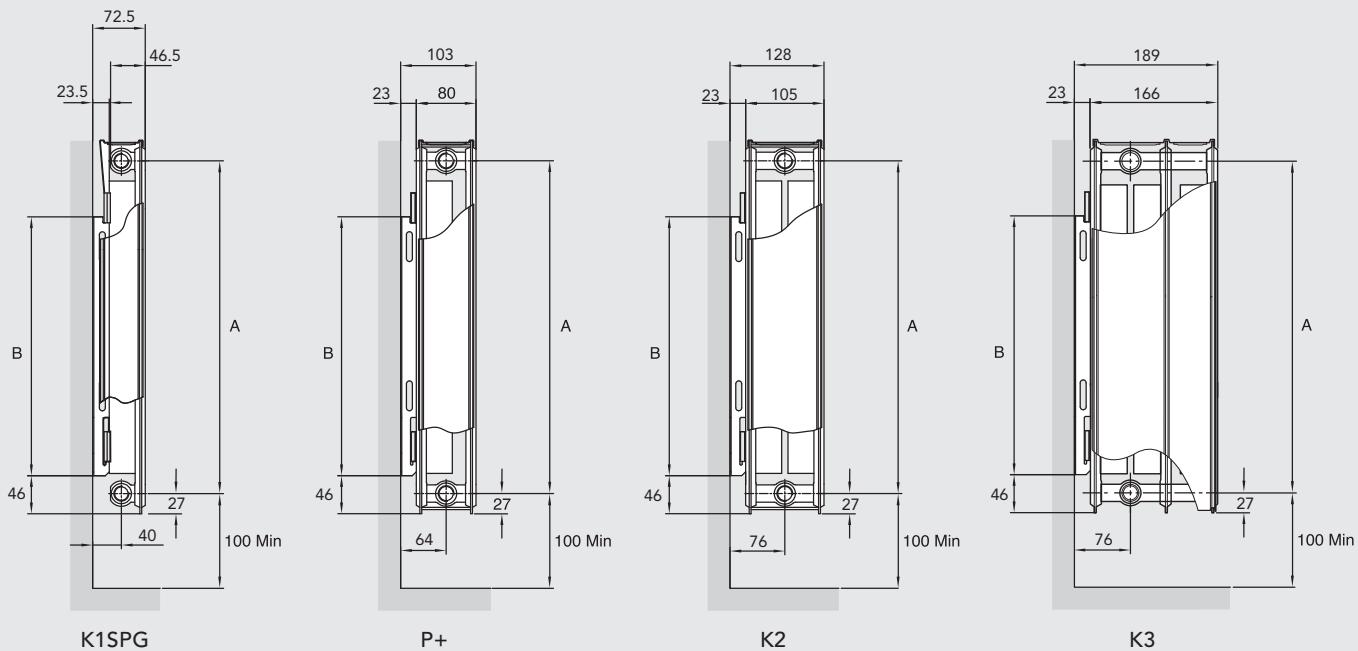
| Height (mm) | 300 | 400 | 500* | 600* | |
|-------------|---|------------|------------|------------|--|
| Length (mm) | up to 3000 | up to 2000 | up to 2200 | up to 2000 | |
| Steps | All lengths start at 400mm and are in increments of 200mm. *Also available in some lengths of 520, 720, 920, 1120 and 1320mm. | | | | |

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Technical Information

PANEL RADIATORS

Mounting Positions and Dimensions



| Nominal Height (mm) | A (mm) | B (mm) |
|---------------------|--------|--------|
| 300 | 246 | 153 |
| 400 | 346 | 253 |
| 500 | 446 | 353 |
| 600 | 546 | 453 |
| 750 | 696 | 603 |

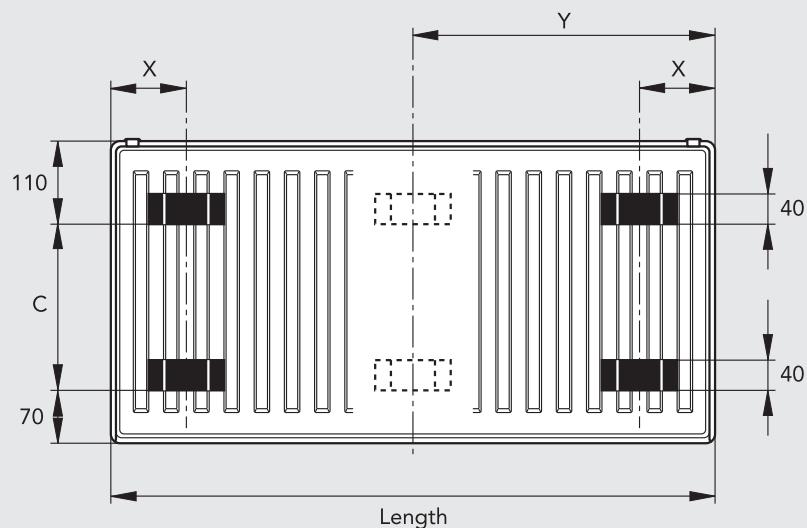
Wall Brackets

The brackets supplied are suitable for mounting all types of radiators of the same height.

The bracket position diagrams shown above are based on the wide flange being fixed to the wall.



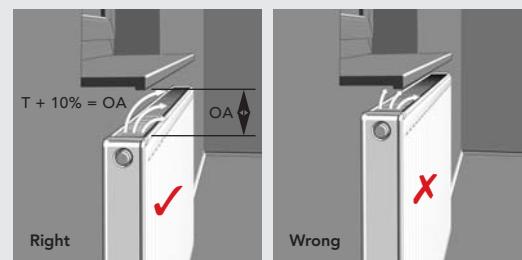
Bracket Positions and Installation



$$\text{Dimension } Y = \frac{\text{Overall Length}}{2}$$

For all radiators with an overall length of 1800mm and above.

Installation



T = Depth of radiator.

| Type | X (mm) |
|-------|--------|
| K1SPG | 93 |
| P+ | 100 |
| K2 | 100 |
| K3 | 100 |

| Nominal Height (mm) | C (mm) |
|---------------------|--------|
| 300 | 120 |
| 400 | 220 |
| 500 | 320 |
| 600 | 420 |
| 750 | 570 |

