



Consumer information

5 steps to more effective and comfortable heating

- 1 Read through the consumer information carefully to find out which radiator matches your needs.
- 2 Measure your room as shown in the heating requirement template on the rear of this consumer information sheet.
- 3 Decide which models you want and where they should be placed in the room.
- 4 Work out the power output you require.
- 5 Contact your dealer to check that the products are in stock and to get prices.

We would like to explain to you, as a consumer, which radiator is best suited to your needs, and what factors to consider before investing in new radiators.

Direct electric heating has long been the most economical way of heating your home, and there are no signs that this situation will change.

Professional

Oil-filled electric radiator with electronic thermostat and convector

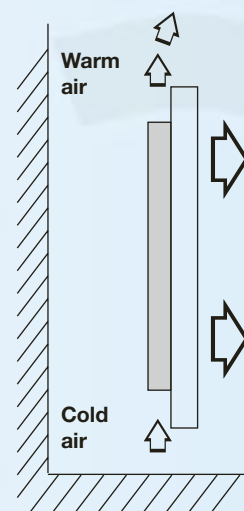
This is the best radiator in our range. It is filled with eco-friendly oil which acts as a stabiliser and ensures uniform temperature across the entire radiator surface. There is a convector on the back of the radiator. The convector is a corrugated metal sheet that helps the heat from the radiator to circulate and spread through the room for better and more even heat regulation. The thermostat is extremely accurate with a temperature variance of ± 0.2 °C. The radiator is silent and does not burn dust, making it ideal for asthma and allergy sufferers.

Application areas

We recommend this radiator if you want the best for your flat or house. Independent tests show that the radiator's convectors and electronic thermostat allow energy savings of up to 15%. This radiator may initially be an expensive investment, but pays off in just a few years.

Important! When comparing prices, also compare the radiator's size in relation to its wattage. Larger radiators provide more efficient heating and lower surface temperature. Our radiator is made of 1 mm sheet steel, and has a powder-coated finish that is hard, durable and easy to clean. All our products are high-voltage tested and undergo careful final checking to ensure optimum quality and safety.

With convector =
More efficient heat distribution



Standard

Electric radiator with electronic thermostat

A compact, stylish oil-free radiator with an electronic thermostat. The thermostat is extremely accurate with a temperature variance of ± 0.2 °C. The radiator operates silently. A calibrated thermostat control makes it easy to set the desired room temperature. Fitted with childproof thermostat housing as standard. The radiator is 100% recyclable.

Application areas

We recommend this radiator for your flat, house or holiday home if space is scarce, or if you have high windows and need very low radiators.

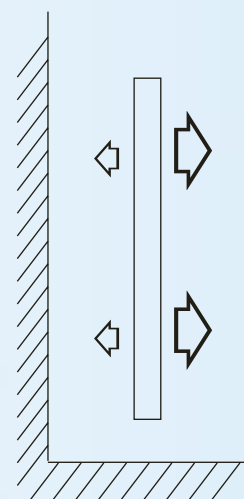
Oil-filled electric radiator with bimetallic thermostat

An excellent basic radiator. The radiator is filled with mineral oil, which acts as a stabiliser and ensures uniform temperature across the entire radiator surface. The radiator has a bimetallic thermostat that maintains a temperature variance of $\pm 2-4$ °C. The radiator does not burn dust, making it ideal for asthma and allergy sufferers.

Application areas

We recommend this radiator if you want to spend slightly less, or if you don't need the thermostat to be absolutely precise. The radiator is ideal for flats, houses or holiday homes. The advantage of bimetallic radiators is that they are less sensitive to lightning.

Without convector



Basic

Oil-filled electric radiator with bimetallic thermostat

A very basic radiator. The radiator is filled with mineral oil, which acts as a stabiliser and ensures uniform temperature across the entire radiator surface. The radiator also has a bimetallic thermostat that maintains a temperature variance of $\pm 2-4$ °C. It does not burn dust, making it ideal for asthma and allergy sufferers. Available in 230V model only. Comes in two sizes.

Application areas

We recommend this radiator as a supplementary heating source, or if you don't need the thermostat to be absolutely precise. The radiator is ideal for cellars, storerooms, guest rooms etc. where temporary heating is required. The advantage of bimetallic radiators is that they are less sensitive to lightning.



Design

The radiator's housing is made of 1 mm steel sheeting with a powder-coated surface that is hard, durable and easy to clean. It is filled with liquid that is heated with an electrical cartridge. A closed circuit system means that the liquid never needs to be changed or replenished. All electronic radiators have a convector on the back. The convector is a corrugated metal sheet that helps the heat from the radiator to circulate and spread through the room for better, more even heat regulation.

Quality / Certification

All our products are high-voltage tested and undergo careful final checking to ensure optimum quality and safety and compliance with the product's European standards.

Surface temperature

The radiator meets SEMKO's standards for a maximum surface temperature of 85 °C, and has overheating protection that can be reset manually.

Thermostat

Electronic thermostat or bimetallic thermostat, depending on the model. The thermostat cuts out when the room reaches the set temperature. The oil in the radiator helps store heat. The thermostat housing is located on the right-hand side of the radiator. A red diode on the electronic thermostat shows when the radiator is in operation.

Attachment points

All radiators are delivered with spring wall brackets and screws. 230V radiators also come with floor stands.

Technical specifications, thermostat

Models 1460–1467 / 1470–1477 have an electronic thermostat 5–35 °C, with a temperature reduction mechanism (–4 °C) activated by an extra timer. Models 1480–1487 / 1490–1497 / 1100–1113 / 1120–1133 / 1142–1145 / 1162–1165 have an electronic thermostat 5–35 °C. Models 1380–1387 / 1390–1397 and 1316.100 / 1383.100 have a bimetallic thermostat 5–35 °C. Model 1315.000 has an electronic thermostat 5–35 °C. All models have a frost guard set at 5 °C. The thermostat width of 60 mm is included in the specified dimensions. The eco radiator's thermostat width is included in the dimensions.

Power switch

2-pole on all models.

Overheating protection

Bimetallic.

Connection

Model 1470–1477 delivered with a connected mains lead with plug and wall box. Models 1120–1133 / 1162–1165 delivered with connected mains lead with plug and wall box. Models 1490–1497 / 1390–1397 delivered with mains lead. Models 1460–1467 / 1480–1487 / 1380–1387 / 1315.000 / 1316.100 / 1383.100 delivered with mains lead with earthed plug. Models 1100–1113 / 1142–1145 delivered with mains lead and plug. Models 1316.100 / 1383.100 are reversible. All other models are for right-hand mounting.

IMPORTANT:

- Remember to check what supply voltage you need for your radiators.
- Permanent installations must be connected by a qualified electrician.

Radiator on wall and floor

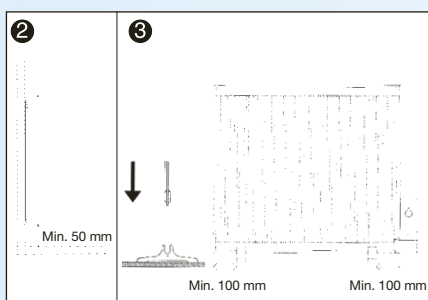
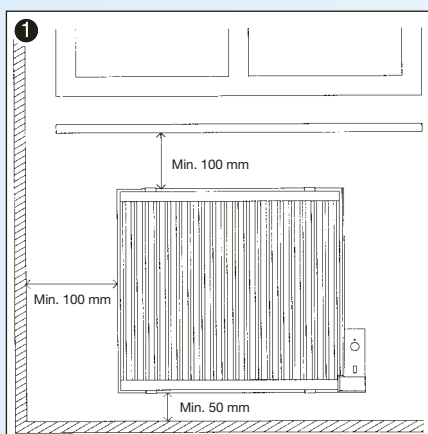
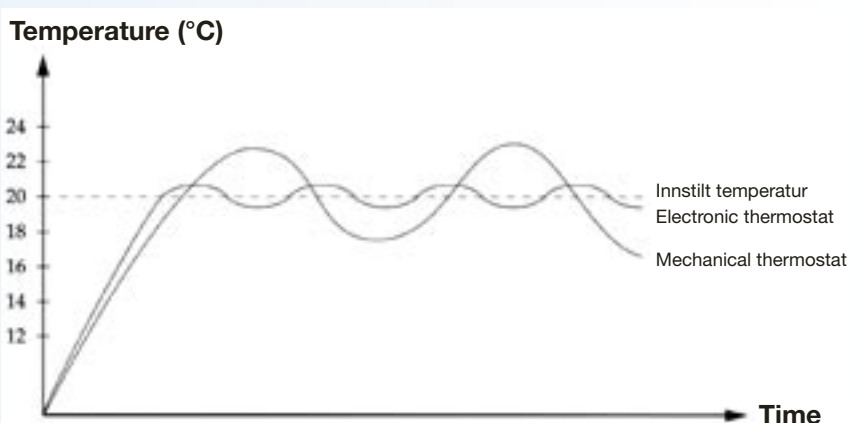


Diagram of thermostat action



Proposed mounting of infrared heaters



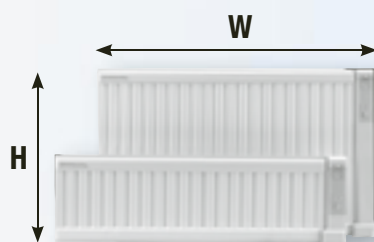
Mounting of one or several infrared heaters on balcony.

Mounting of one infrared heater.

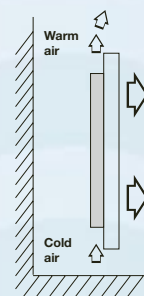
Mounting of two infrared heaters.

► Oil-filled radiators with electronic thermostat, convector and night setback

The radiator comes in 230V and 400V models. Both models are prepared for a temperature reduction mechanism (-4°C) activated by an extra timer. 400V model supplied with wall mounting and terminal box. 230V model supplied with wall mounting, floor mounting and lead with plug. Enclosure class IP21.



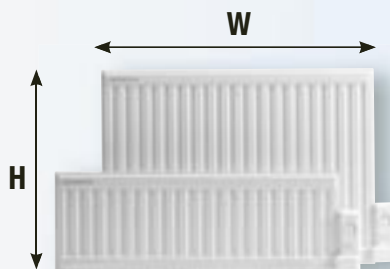
With convector =
 More efficient heat distribution



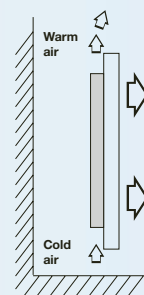
Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
1	85 595 56	1463.000	7 317 121 463 007	230	400	300x900	7,4	45/ 1		
1	85 595 57	1473.000	7 317 121 473 006	400	400	300x900	7,4	45/ 1		
1	85 595 54	1462.000	7 317 121 462 000	230	600	300x1140	9,4	45/ 1		
1	85 595 55	1472.000	7 317 121 472 009	400	600	300x1140	9,4	45/ 1		
1	85 595 58	1467.000	7 317 121 467 005	230	800	300x1380	11,2	40/ 1		
1	85 595 59	1477.000	7 317 121 477 004	400	800	300x1380	11,2	40/ 1		
1	85 595 64	1466.000	7 317 121 466 008	230	350	600x660	12,0	30/ 1		
1	85 595 65	1476.000	7 317 121 476 007	400	350	600x660	12,0	30/ 1		
1	85 595 62	1465.000	7 317 121 465 001	230	500	600x660	12,0	30/ 1		
1	85 595 63	1475.000	7 317 121 475 000	400	500	600x660	12,0	30/ 1		
1	85 595 52	1461.000	7 317 121 461 003	230	700	600x900	14,8	20/ 1		
1	85 595 53	1471.000	7 317 121 471 002	400	700	600x900	14,8	20/ 1		
1	85 595 50	1460.000	7 317 121 460 006	230	1000	600x1140	17,2	20/ 1		
1	85 595 51	1470.000	7 317 121 470 005	400	1000	600x1140	17,2	20/ 1		
1	85 595 60	1464.000	7 317 121 464 004	230	1250	600x1380	20,0	20/ 1		
1	85 595 61	1474.000	7 317 121 474 003	400	1250	600x1380	20,0	20/ 1		

► Oil-filled radiator with electronic thermostat and convector

The radiator is available in both 230V and 400V models. 400V model supplied with wall mounting and mains lead. 230V model supplied with wall mounting, floor mounting, lead with plug. Enclosure class IP21.



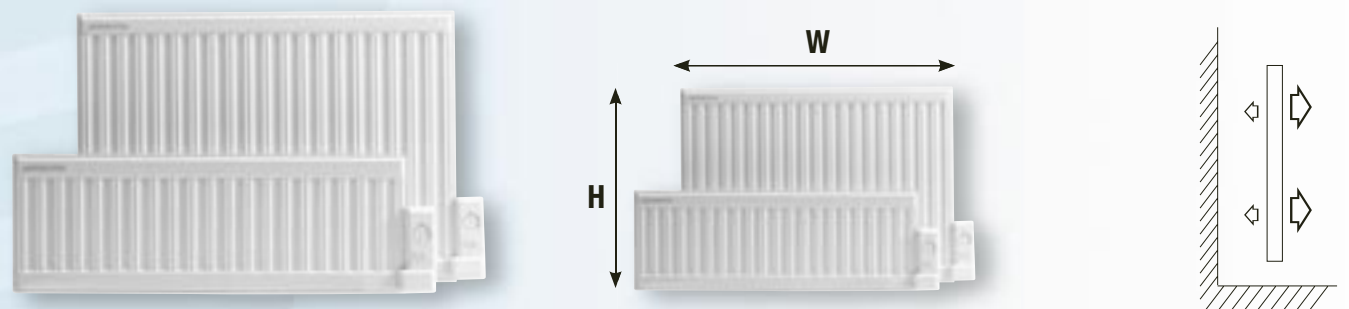
With convector =
 More efficient heat distribution



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
1	85 591 86	1483.000	7 317 121 483 005	230	400	300x900	7,4	45/ 1		
1	85 591 87	1493.000	7 317 121 493 004	400	400	300x900	7,4	45/ 1		
1	85 591 88	1482.000	7 317 121 482 008	230	600	300x1140	9,4	45/ 1		
1	85 591 89	1492.000	7 317 121 492 007	400	600	300x1140	9,4	45/ 1		
1	85 591 90	1487.000	7 317 121 487 003	230	800	300x1380	10,8	40/ 1		
1	85 591 91	1497.000	7 317 121 497 002	400	800	300x1380	10,8	40/ 1		
1	85 591 92	1486.000	7 317 121 486 006	230	350	600x660	12,0	30/ 1		
1	85 591 93	1496.000	7 317 121 496 005	400	350	600x660	12,0	30/ 1		
1	85 591 94	1481.000	7 317 121 481 001	230	700	600x900	14,8	20/ 1		
1	85 591 95	1491.000	7 317 121 491 000	400	700	600x900	14,8	20/ 1		
1	85 591 96	1480.000	7 317 121 480 004	230	1000	600x1140	17,2	20/ 1		
1	85 591 97	1490.000	7 317 121 490 003	400	1000	600x1140	17,2	20/ 1		
1	85 591 98	1484.000	7 317 121 484 002	230	1250	600x1380	20,0	20/ 1		
1	85 591 99	1494.000	7 317 121 494 001	400	1250	600x1380	20,0	20/ 1		

► Oil-filled radiator with bimetallic thermostat

Radiator available in both 230V and 400V models. 400V model supplied with wall mounting and mains lead. 230V model supplied with wall mounting, floor mounting, lead with plug. Enclosure class IP21.



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
2	85 590 82	1383.000	7 317 121 383 008	230	400	300x900	7,0	45/ 1		
2	85 590 83	1393.000	7 317 121 393 007	400	400	300x900	7,0	45/ 1		
2	85 590 84	1382.000	7 317 121 382 001	230	600	300x1140	8,8	45/ 1		
2	85 590 85	1392.000	7 317 121 392 000	400	600	300x1140	8,8	45/ 1		
2	85 590 92	1387.000	7 317 121 387 006	230	800	300x1380	9,9	40/ 1		
2	85 590 93	1397.000	7 317 121 397 005	400	800	300x1380	9,9	40/ 1		
2	85 590 80	1386.000	7 317 121 386 009	230	350	600x660	10,0	30/ 1		
2	85 590 81	1396.000	7 317 121 396 008	400	350	600x660	10,0	30/ 1		
2	85 590 86	1381.000	7 317 121 381 004	230	700	600x900	13,4	20/ 1		
2	85 590 87	1391.000	7 317 121 391 003	400	700	600x900	13,4	20/ 1		
2	85 590 88	1380.000	7 317 121 380 007	230	1000	600x1140	16,4	20/ 1		
2	85 590 89	1390.000	7 317 121 390 006	400	1000	600x1140	16,4	20/ 1		

► Oil-filled radiator with electronic thermostat, basic

Radiator only available in 230V model. Supplied with wall mounting, floor mounting, lead with plug. Enclosure class IP21.



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
3	85 590 94	1315.000	7 317 121 315 009	230	800	650x800	12,0	40/ 1		

► Oil-filled radiator with bimetallic thermostat, basic

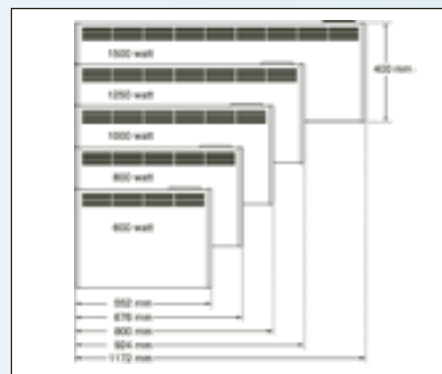
Radiator only available in 230V. Supplied with wall mounting, floor mounting, lead with plug. Enclosure class IP21.



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
3	85 590 90	1316.100	7 317 121 316 105	230	1000	650x800	12,0	40/ 1		
3	85 590 91	1383.100	7 317 121 383 107	230	400	300x900	7,0	50/ 1		

▶ Direct-acting electric radiator with electronic thermostat

Radiator available both in 230V and 400V models, for wall mounting only. 400V model supplied with cables and terminal box. 230V model supplied with lead and plug. Enclosure class IP20.



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
4	85 591 77	1110.000	7 317 121 110 000	230	500	200x800	3,3	48/ 1		
4	85 592 77	1130.000	7 317 121 130 008	400	500	200x800	3,3	48/ 1		
4	85 591 78	1111.000	7 317 121 111 007	230	750	200x1048	4,2	48/ 1		
4	85 592 78	1131.000	7 317 121 131 005	400	750	200x1048	4,2	48/ 1		
4	85 591 79	1112.000	7 317 121 112 004	230	1000	200x1297	5,1	36/ 1		
4	85 592 79	1132.000	7 317 121 132 002	400	1000	200x1297	5,1	36/ 1		
4	85 591 80	1113.000	7 317 121 113 001	230	1250	200x1668	6,4	36/ 1		
4	85 592 80	1133.000	7 317 121 133 009	400	1250	200x1668	6,4	36/ 1		
4	85 591 72	1100.000	7 317 121 100 001	230	600	400x552	3,0	40/ 1		
4	85 592 72	1120.000	7 317 121 120 009	400	600	400x552	3,0	40/ 1		
4	85 591 73	1101.000	7 317 121 101 008	230	800	400x676	4,3	30/ 1		
4	85 592 73	1121.000	7 317 121 121 006	400	800	400x676	4,3	30/ 1		
4	85 591 74	1102.000	7 317 121 102 005	230	1000	400x800	5,8	30/ 1		
4	85 592 74	1122.000	7 317 121 122 003	400	1000	400x800	5,8	30/ 1		
4	85 591 75	1103.000	7 317 121 103 002	230	1250	400x924	6,5	20/ 1		
4	85 592 75	1123.000	7 317 121 123 000	400	1250	400x924	6,5	20/ 1		
4	85 591 76	1104.000	7 317 121 104 009	230	1500	400x1172	8,0	20/ 1		
4	85 592 76	1124.000	7 317 121 124 007	400	1500	400x1172	8,0	20/ 1		

▶ Direct-acting electric radiator with electronic thermostat.

For bathrooms and utility rooms.

Radiator available both in 230V and 400V models, for wall mounting only. 400V model supplied with cables and terminal box. 230V model supplied with lead and plug. Enclosure class IP X4.

Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
4	85 594 30	1145.000	7317121145002	230	400	400x428	3	40/ 1		
4	85 594 31	1165.000	7317121165000	400	400	400x428	3	40/ 1		
4	85 594 32	1140.000	7317121140007	230	600	400x552	3	40/ 1		
4	85 594 33	1160.000	7317121160005	400	600	400x552	3	40/ 1		
4	85 594 34	1141.000	7317121141004	230	800	400x676	4,3	30/ 1		
4	85 594 35	1161.000	7317121161002	400	800	400x676	4,3	30/ 1		
4	85 594 36	1142.000	7317121142001	230	1000	400x800	5,8	30/ 1		
4	85 594 37	1162.000	7317121162009	400	1000	400x800	5,8	30/ 1		

▶ Infrared heater with protective grid, for outdoor use

Reflector in aluminium. 1332.000 and 1332.095 models are supplied without a lead and must be connected by a qualified electrician. 1332.100 and 1332.195 models supplied with a lead and plug. Enclosure class IP21.

*Articles 1332.095 and 1332.195 are completely new infrared heaters in stainless steel.



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
6	85 712 02	1332.000	7 317 121 332 006	230	1000	65x1200	1,7	220/ 10		
6	85 712 03	1332.100	7 317 121 332 105	230	1000	65x1200	1,8	176/ 8		

▶ Infrared heater – stainless steel for outdoor use, with protective grid

Infrared heater suitable for verandas, terraces or balconies. Provides welcome additional heat on cool summer days. Stainless steel sheeting, aluminium reflector. 1332.095 model is supplied without a lead and must be connected by a qualified electrician.

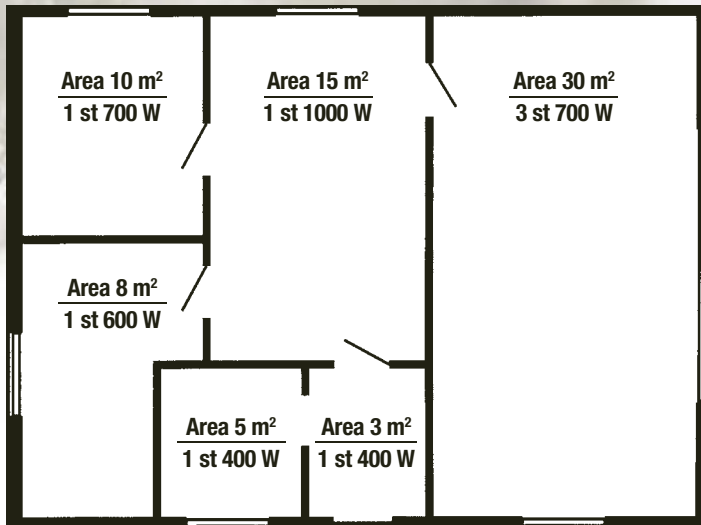
1332.195 model supplied with lead and plug. Enclosure class IP21.



Group	E number	Article	EAN no.	Voltage	Wattage	Dimensions, mm H+W mm	Weight kg	Quantity pallet/ box	Recommended price	Quantity
6	85 712 04	1332.095	7 317 121 332 099	230	1000	65x1200	1,4	220/ 10		



Work out your heating requirements



- 1 Measure the room's area in m².
- 2 As a rule of thumb, the heating requirement for a normally insulated building is 60–70 W per m², or 25–30 W per m³. Calculate the power requirement for each room (e.g. 60 W x 42 m² = 2,520 W) and divide it beneath all the windows, ensuring that the radiator length roughly matches the window width.
- 3 Choose the radiator(s) that meet your needs.
- 4 Measure whether the radiator should be 30 cm or 60 cm high.

Room	Voltage 230/400	m ² x ceiling height = m ³ x 25–30 Watt = Power output				Distance window floor	Window length	Number of windows	Type of radiator	Number of radiators
					Watt					
Kitchen										
Room 1										
Room 2										
Room 3										
Room 4										
Room 5										
Utility room										
Hall										
Toilet										
Other spaces										

Dealer: