

# CONCEPT COMPACT RADIATOR



Bracket suspension and wall bracket kit supplied as standard

Colour finish upon request

Before leaving the factory each radiator is individually tested.

Operating pressure 10 bar

Specials upon request

Certified to DIN EN ISO 9001:2000

Heat outputs based on 75/65° C (70° C mean) Delta T 50° C

## Description

Type 11-33: Kermi concept flat convector radiators with absolutely flat front, no all-around beads, made from steel plate in accordance with EN 442. Rear and interior profiled, bead division 33.3 mm. Overlapping factory fitted top grille and end panels.

## Scope of delivery

Kermi concept radiators are primed and powder coated. Including protective packaging and assembly kit, comprising wall brackets, plastic bracket inserts as well as blanking and air vent plugs.

## Quality

Each radiator is individually tested for leaks.

Test pressure: 13.0 bar

Operating pressure: 10.0 bar

Certified to DIN EN ISO 9001:2000.

The construction design of the concept compact radiators corresponds to the former BAGUV guidelines.

## Mounting

The radiator is mounted from the rear using 4 anchor brackets (6 from BL = 1800 mm). The radiator can be aligned horizontally.

## Finish

Kermi radiators come with a highgloss two-coat powder-coating process. They are degreased, iron phosphated, primed with electric dip-coating (ETL) and electro-static powdercoated (EPS), in accordance with DIN 55900-FWA. Emission-free and environmentally friendly paintwork. Even coating without drips. Colour: Kermi-white (RAL 9016)

## Heat output

Heat outputs tested to EN 442, relating to a water temperature of 75°/65° C and a room temperature of 20° C. Test results for each model are available on request for Delta T 60° C.

## Packaging

Packed ready for assembly in cardboard and vacuum packed in film. The packaging does not need to be removed for assembly.

## Connections

4 x interior threads G 1/2"

## Conversion factors for other temperatures

Correction factors

$U_f$  for heat outputs at  $\Delta T$ 's other than 50 K

$\Delta T$ K	$U_f$	$\Delta T$ K	$U_f$
65	1.408	42	0.796
64	1.380	41	0.771
63	1.352	40	0.747
62	1.324	39	0.723
61	1.296	38	0.699
60	1.268	37	0.675
59	1.241	36	0.651
58	1.213	35	0.627
57	1.186	34	0.604
56	1.159	33	0.581
55	1.132	32	0.558
54	1.105	31	0.535
53	1.079	30	0.513
52	1.052	29	0.491
51	1.026	28	0.469
50	1.000	27	0.447
49	0.974	26	0.426
48	0.948	25	0.404
47	0.922	24	0.383
46	0.897	23	0.363
45	0.871	22	0.342
44	0.846	21	0.322
43	0.821	20	0.302

## Example

Correction to the approved outputs at  $\Delta T$  50K actual temperature difference  $\Delta T$  for radiator

**987 watts output at  $\Delta T = 50K$ :**

A flow temperature of 70° C and return temperature of 55° C, room 18° C gives a  $\Delta T = 45K$  (see table )

Correction factor  $U_f = 0.871$  (see table above)

Actual heat output:  $0.871 \times 987 = 860$  watts.

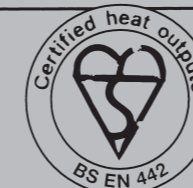


## Concept Compact Radiator

Price list  
09/2008

Prices exclude V.A.T.

LICENCE N° KM 07276



Certified to DIN EN ISO 9001:2000  
(European Quality Standard)

# ACCESSORIES

## Installation

The system should be designed to follow the recommendations of BS 5449 or BS 6880 as appropriate, with particular care taken to avoid air entry or water discharge through an open vent. The installation work must be done in accordance with recognised good practice and precautions taken to avoid contamination which could lead to corrosion. If a corrosion inhibitor or other water treatment is to be used, the manufacturer's instructions must be strictly followed.

## Water treatment

On completion of the installation, the system must be properly flushed and filled in accordance with the British Standard Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems BS 7593. This will help remove flux residues and general installation debris, which might promote corrosion and damage within the system. Corrosion inhibitor must be applied to maximise the working life of the system, its application must be in accordance with the appropriate manufacturer's instructions and must be suitable for the particular metals within the system.

Further details of suitable, readily available cleansers and inhibitors can be obtained from:

Sentinel Division, Betz Dearborn Limited, Foundry Lane, Widnes - Cheshire WA8 8UD, Telephone: (0151) - 420 9595

Alpha-Fry Technologies Europe, Tandem House Marlowe Way, Beddington Farm Road, Croyden - Surrey CRO 4XS, Telephone: (01799) - 550 811

Failure to take these necessary precautions may cancel our product guarantee.

## Water content of radiators (Litres per 100 mm length)

Height	Type 11	Type 12	Type 22	Type 33
305 mm	0.18	0.36	0.36	0.54
405 mm	0.225	0.45	0.45	0.675
505 mm	0.27	0.54	0.54	0.81
605 mm	0.315	0.63	0.63	0.945
905 mm	0.45	0.90	0.90	1.35

## Technical data for Kermi concept radiators

Thickness of steel-plates	Radiators 1.25 mm / front panel 1.0 mm
Height	305, 405, 505, 605 and 905 mm
Width	63, 66, 102 and 157 mm
Length	405-3005 mm
Heat emission	BS EN 442
Controlling pressure	191 psi (13 bar)
Operating pressure	147 psi (10 bar)
Gloss paint finish	according to DIN 55 900

Kermi reserves the right to alter technical specifications and prices without prior notice in accordance with their product design policy and in keeping with market requirements. E&OE.

Dealer: (name, address)



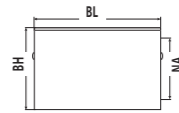
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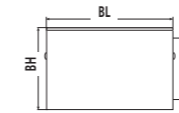
Kermi (U.K.) Ltd.  
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Earlstrees Industrial Estate  
Corby, Northants  
NN17 4JW  
Telephone 01536 400004  
Telefax 01536 446614  
info@kermi.co.uk  
www.kermi.co.uk

A company in the  
AFG  
Arbonia-Forster-Holding AG

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## CONCEPT COMPACT RADIATOR



Sample Order	Type 11	Type 12	Type 22	Type 33	Sample Order
Type 11 605 x 1005 mm = Art-No. PK0110610 Type 12 605 x 1205 mm = Art-No. PK0120612					Type 22 605 x 805 mm = Art-No. PK0220608 Type 33 405 x 1005 mm = Art-No. PK0330410
	single panel with convector depth 63 mm, Art-No. PK011...	double panel with convector depth 66 mm, Art-No. PK012...	double panel with 2 convectors depth 102 mm, Art-No. PK022...	triple panel with 3 convectors depth 157 mm, Art-No. PK033...	
Height mms	405 505 605 905	505 605 905	305 405 505 605 905	305 405 505 605 905	
Watts/m 75/65/20° C	619 749 878 1265	954 1106 1599	902 1125 1339 1549 2164	1299 1602 1901 2201 3140	
Length mms	Outputs shown in Watt and BTU / HR are tested to EN 442 and on a mean water temperature of 70° C and a room temperature of 20° C (Delta T 50° C)				Length mms
405 Watts	251 303 356 512	386 448 648	456 542 627 876	770 891 1272	405 Watts
Btu	856 1036 1214 1749	1319 1529 2211	1556 1852 2142 2992	2629 3043 4342	Btu
Price £	149.61 170.25 173.68 199.48	218.25 239.72 299.79	209.79 235.59 251.07 347.37	335.34 361.14 447.11	Price £
505 Watts	313 378 443 639	482 559 808	568 676 782 1093	960 1112 1586	505 Watts
Btu	1067 1291 1514 2181	1645 1907 2757	1940 2309 2671 3731	3278 3795 5414	Btu
Price £	156.48 185.73 192.59 225.27	241.39 267.21 341.07	233.87 264.84 278.58 393.81	378.32 407.56 517.62	Price £
605 Watts	375 453 531 765	577 669 967	681 810 937 1309	1150 1332 1900	605 Watts
Btu	1279 1547 1814 2613	1971 2285 3303	2324 2766 3200 4470	3927 4546 6486	Btu
Price £	178.85 205.31 213.24 252.78	265.46 294.70 383.18	259.67 285.46 306.10 438.52	424.76 457.43 598.45	Price £
705 Watts	436 528 619 892	673 780 1127	793 944 1092 1526	1340 1552 2214	705 Watts
Btu	1490 1803 2113 3045	2296 2662 3849	2708 3223 3729 5209	4576 5298 7558	Btu
Price £	196.05 220.13 233.87 280.32	289.51 321.26 425.29	283.75 314.70 337.06 484.94	467.74 502.14 656.90	Price £
805 Watts	498 603 707 1018	768 890 1287	726 906 1078 1247 1742	1046 1290 1530 1772 2528	805 Watts
Btu	1701 2059 2413 3477	2622 3040 4395	2479 3092 3680 4257 5948	3570 4403 5225 6049 8630	Btu
Price £	213.24 239.04 256.24 311.26	312.75 349.68 467.40	278.58 306.10 338.77 366.30 529.67	438.52 474.63 514.07 550.30 722.26	Price £
905 Watts	560 678 795 1145	863 1001 1447	816 1018 1212 1402 1959	1176 1450 1721 1992 2842	905 Watts
Btu	1913 2314 2713 3909	2948 3417 4941	2787 3476 4137 4786 6687	4014 4950 5874 6801 9702	Btu
Price £	230.44 256.24 276.86 337.06	336.81 377.17 509.43	300.95 333.63 368.01 393.81 576.10	476.34 519.33 555.47 600.18 791.05	Price £
1005 Watts	622 753 882 1271	959 1112 1607	907 1131 1346 1557 2175	1306 1610 1911 2212 3156	1005 Watts
Btu	2124 2570 3013 4341	3273 3795 5487	3095 3860 4595 5315 7425	4457 5497 6523 7552 10774	Btu
Price £	242.47 276.86 297.52 366.30	359.95 404.66 550.71	325.03 357.70 393.81 421.32 620.79	510.74 558.90 601.89 644.89 859.83	Price £
1205 Watts	746 903 1058 1524	1150 1333 1927	1087 1356 1614 1867 2608	1565 1931 2291 2652 3784	1205 Watts
Btu	2547 3082 3612 5204	3925 4550 6579	3711 4628 5509 6373 8903	5344 6591 7821 9055 12919	Btu
Price £	278.58 312.98 337.06 419.60	408.09 459.63 634.01	368.01 405.85 447.11 479.79 711.95	577.81 639.72 684.44 739.46 997.41	Price £
1405 Watts	870 1052 1234 1777	1340 1554 2247	1267 1581 1881 2177 3041	1825 2251 2671 3093 4412	1405 Watts
Btu	2969 3593 4212 6068	4576 5306 7670	4327 5397 6423 7431 10381	6231 7685 9119 10558 15063	Btu
Price £	312.98 347.37 376.61 476.34	455.38 513.78 718.24	412.72 455.71 498.71 536.53 808.25	648.32 720.55 777.29 834.05 1,134.98	Price £
1605 Watts	994 1202 1409 2030	1531 1775	1448 1806 2149 2486 3473	2085 2571 3051 3533	1605 Watts
Btu	3392 4104 4811 6932	5228 6061	4943 6165 7338 8488 11858	7118 8779 10417 12061	Btu
Price £	343.94 385.21 419.60 529.67	503.41 568.76	455.71 505.59 550.30 589.85 899.40	720.55 799.65 866.72 930.34	Price £
1805 Watts	1117 1352 1585	1722 1996	1628 2031 2417 2796	2345 2892 3432 3973	1805 Watts
Btu	3815 4616 5411	5879 6816	5559 6933 8252 9546	8005 9873 11715 13564	Btu
Price £	376.61 419.60 459.14	550.71 623.74	496.99 553.73 605.99 648.32	791.05 878.76 952.70 1,023.21	Price £
2005 Watts	1241 1502 1761	1913 2218	1809 2256 2685 3106	2605 3212 3812 4413	2005 Watts
Btu	4237 5127 6010	6531 7571	6175 7701 9166 10604	8892 10967 13013 15067	Btu
Price £	407.56 457.43 498.71	597.91 678.72	539.98 601.89 658.64 705.07	859.83 954.42 1,040.41 1,117.80	Price £
2305 Watts	1727 2024	2079 2593 3087 3571	2079 2593 3087 3571	2994 3693 5074	2305 Watts
Btu	5895 6910	7099 8854 10538 12190	7099 8854 10538 12190	10223 12608 17322	Btu
Price £	510.74 565.78	607.05 675.84 736.03 791.05	607.05 675.84 736.03 791.05	968.19 1,076.52 1,258.80	Price £
2605 Watts	1951 2287	2350 2931 3488 4035	2350 2931 3488 4035	3384 3812 5074	2605 Watts
Btu	6662 7809	8023 10006 11909 13777	8023 10006 11909 13777	11553 13328 17322	Btu
Price £	565.78 625.96	672.39 751.49 813.41 875.32	672.39 751.49 813.41 875.32	1,071.36 1,214.09	Price £
3005 Watts	2251 2639	2711 3381 4024 4655	2711 3381 4024 4655	3904 4533 5974	3005 Watts
Btu	7685 9008	9254 11542 13738 15893	9254 11542 13738 15893	13328 15553 20608	Btu
Price £	637.99 705.07	758.37 847.80 918.31 995.70	758.37 847.80 918.31 995.70	1,214.09 1,367.36 1,558.80	Price £

BL = Length  
BH = Height  
BT = Depth  
NA = Distance between tapping centres (height - 54 mm)

### Kermi colour finish for concept compact radiators

Kermi concept compact radiators are cleaned of grease, coated with iron phosphate, primed with cathodic electrophoretic enamel and coated using common RAL colours or sanitary colours as per the Kermi colour range. Supplementary surcharge for alternative colour finish: upon request

Prices for radiators not listed are available upon request. Radiator price includes wall bracket kit as standard. All prices exclude V.A.T.

## ACCESSORIES

### Accessories for concept compact radiators

This assembly kit is supplied as standard, from the length of 1800 mm, a third bracket is also included.



Additional requirements	Order No.	Price £
1/2" B.S.P. chromed self jointing air vents	S-NT 1/2 (lots of 10)	34.72
1/2" B.S.P. chromed self jointing blanking plugs	ES 1/2 (lots of 10)	23.99
Air vent keys	AVK (lots of 10)	8.11
Kermi-white touch-up brush pen (12 ml)	LS (each)	7.94
Kermi-white touch-up spray paint (150 ml)	SD (each)	18.86
Kermi-white touch-up paint tins (500 ml)	LD (each)	18.03

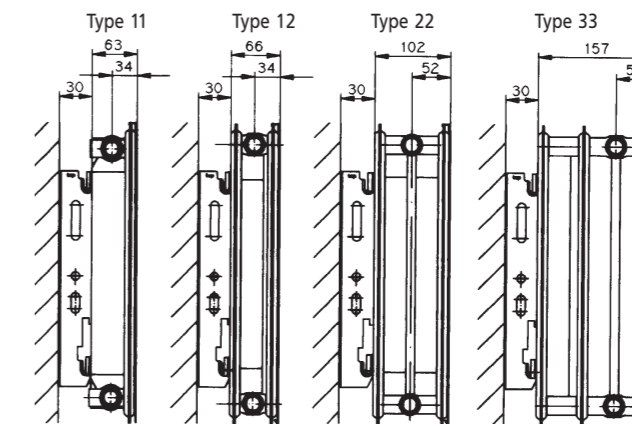
Additional angled brackets (each)	Order No.	Price £
Height 300 mm	UK B/3	3.50
Height 400 mm	UK B/4	3.50
Height 500 mm	UK B/5	3.50
Height 600 mm	UK B/6	3.50
Height 900 mm	UK B/9	3.50

Floor standing brackets (each)	Order No.	Price £
Height 300 mm	SK / 3 N	45.64
Height 400 mm	SK / 4 N	45.64
Height 500 mm	SK / 5 N	45.64
Height 600 mm	SK / 6 N	47.80
Height 900 mm	SK / 9 N	47.80

Base plate cover	Order No.	Price £
	ER / 30	9.74

### Support brackets

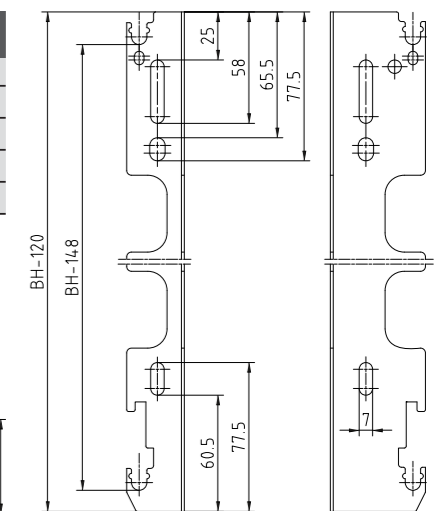
Radiators are supplied with two fully - concealed brackets which are suitable for wall mounting, from the length of 1800 mm a 3rd bracket is included.



### Wall mounting

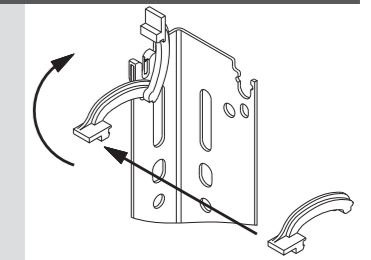
Each radiator is packed with the appropriate number of wall mounting angled brackets. For each bracket a plastic insert is included. This is to be installed on to the top support section of the bracket, which takes the weight of the radiator. This plastic insert will ensure that the metal surfaces of the bracket and radiator hanging lug will not come into contact with each other and therefore reduce the potential of metallic noise, created by the expansion or contraction of metal, whilst the heating system is in use.

Radiator height	Bracket height
305 mm	180 mm
405 mm	280 mm
505 mm	380 mm
605 mm	480 mm
905 mm	780 mm

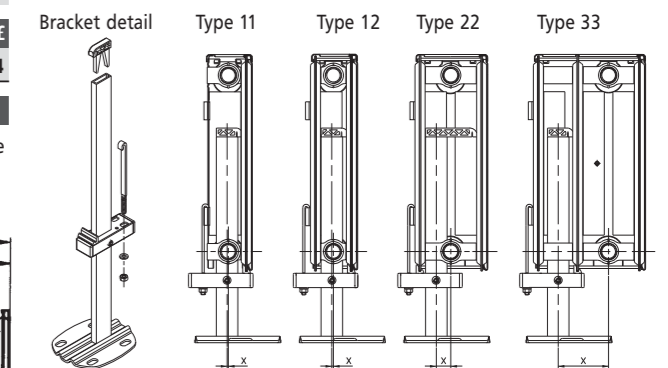


### Wall bracket

The wall bracket-retaining clip has been developed to assist in the securing of the radiator to the wall bracket, reducing the radiator lift off from the wall bracket.



### Floor standing



Type	Measure X
11	2
12	2
22	20
33	70

Measure X = distance connection / middle tube floor standing bracket

Kermi (U.K.) Ltd. offers a radiator selection heat-loss calculating programme available on CD or from our web site. The Designs For Living on CD will allow you to accurately select the correct radiator for your heating design.