



PowerKon ^{PLUS} W
Wall-mounted encased convectors

PowerKon ^{PLUS} F
Free-standing encased convectors

**Innovative,
professional,
international**

In over 35 years, Kampmann GmbH has grown from being a family-led company to become an internationally

renowned group of companies. Kampmann systems for heating, cooling and ventilation are today market leaders in a number of different market sectors. Innovation and the highest standards of quality guarantee this success into the future.

We have an "ear on the market" and the knowledge and expertise gained from 35 years of experience in development, production and sales. This, combined with a professionally-manned research and development department, is the basis for our continuous product development. This is what allows us to provide our customers with the best technical product at any time.

Traditionally, Kampmann's skills and expertise have been in the production of standard products with an extraordinary range of adapted products, as well as in the production of technically and visually high-quality tailor-made design solutions. Our specialist staff deal with the building in its entirety and develop unique and efficient system solutions. Our entire range is reflected in mix of standard, non-standard and tailor-made products for project-orientated solutions.

We set ourselves very high standards in production. Today an exceptionally well-trained specialist workforce manufactures high-quality Kampmann products in three plants for customers throughout the world. A number of different certificates are evidence of our high standards of quality, which have become the standard at Kampmann. Our products are characterised by the high guaranteed DIN EN-tested heat outputs. In terms of quality management the requirements of TÜV certification according to DIN EN ISO 9001 have been met since 1996.

For decades, Kampmann customers have valued our excellent service. Local external engineers and technicians, in-house measuring engineers and the Kampmann customer service team are available to customers. Kampmann good air quality is now to be found across the globe. Our sales engineers now cover the whole of Germany and Europe.

This PowerKon brochure provides you with an insight into our wide product range. Take a look and make up your own mind – do not hesitate to arrange a personal visit with us. It is our aim to meet your high quality expectations, right down to the last detail.

Well-being is our product – Quality is our benchmark!



Hendrik Kampmann
Managing Director



Peter Kaß
Managing Director




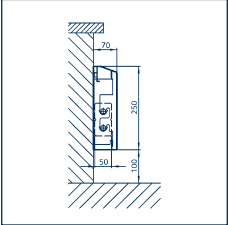

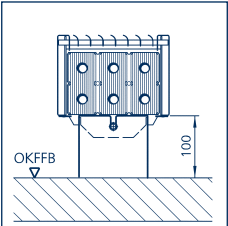
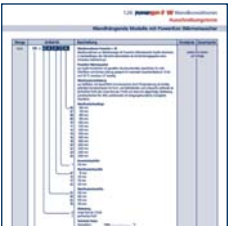
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KAMPMAN
SYSTEMS FOR HEATING · COOLING · VENTILATING

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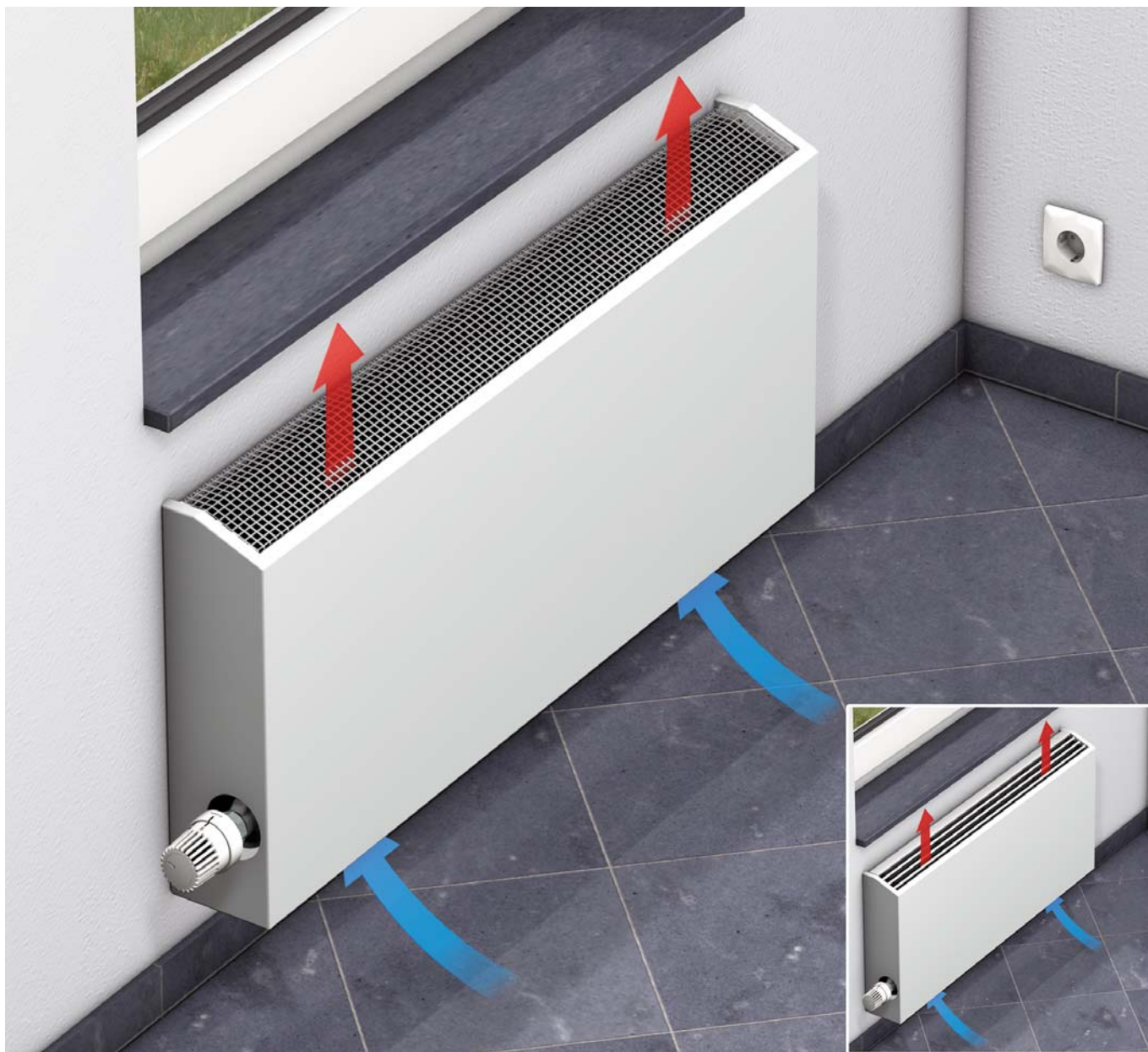
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Registration no.: 6R1168

Product description/
PowerKon + W accessories



PowerKon + W Wall-mounted encased convectors
Functional design - extremely easy-to-install

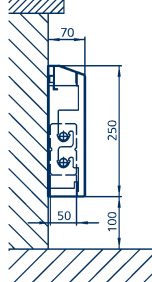
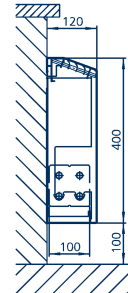
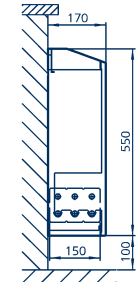
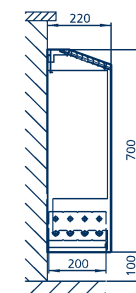
Kampmann wall-mounted encased convectors with PowerKon heat exchangers are the systematic continuation of the proven free-standing Kampmann convectors, now also for use with wall-mounted models.

What is also new is the Kampmann quick-fit system, based on a single-section prefabricated convector casing, which can be fitted without the need for screws. Powerkon+W is available with practical casing heights and minimal depth. PowerKon heat exchangers are capable of producing high levels of heat output due to their corrugated fins and large surface areas.

- Sheet steel casing with long-lasting corrosion protection due to a phosphating finish
- Air outlet either as a perforated profile or a linear grille with a C-profile
- Single-section prefabricated wall-mounted casing with the following dimensions:
 - Height 250, 400, 550 and 700 mm
 - Depth 70, 120, 170 and 220 mm
 - Length from 600 to 2600 mm (Depth 220 mm to 2400 mm)
- Powdercoated in RAL 9016, other colours on request
- Heat outputs tested according to DIN EN 442, registered by DIN CERTCO and monitored under reg. no. 6R1168
- Units come complete with brackets



Overview of types - PowerKon + W wall-mounted convectors

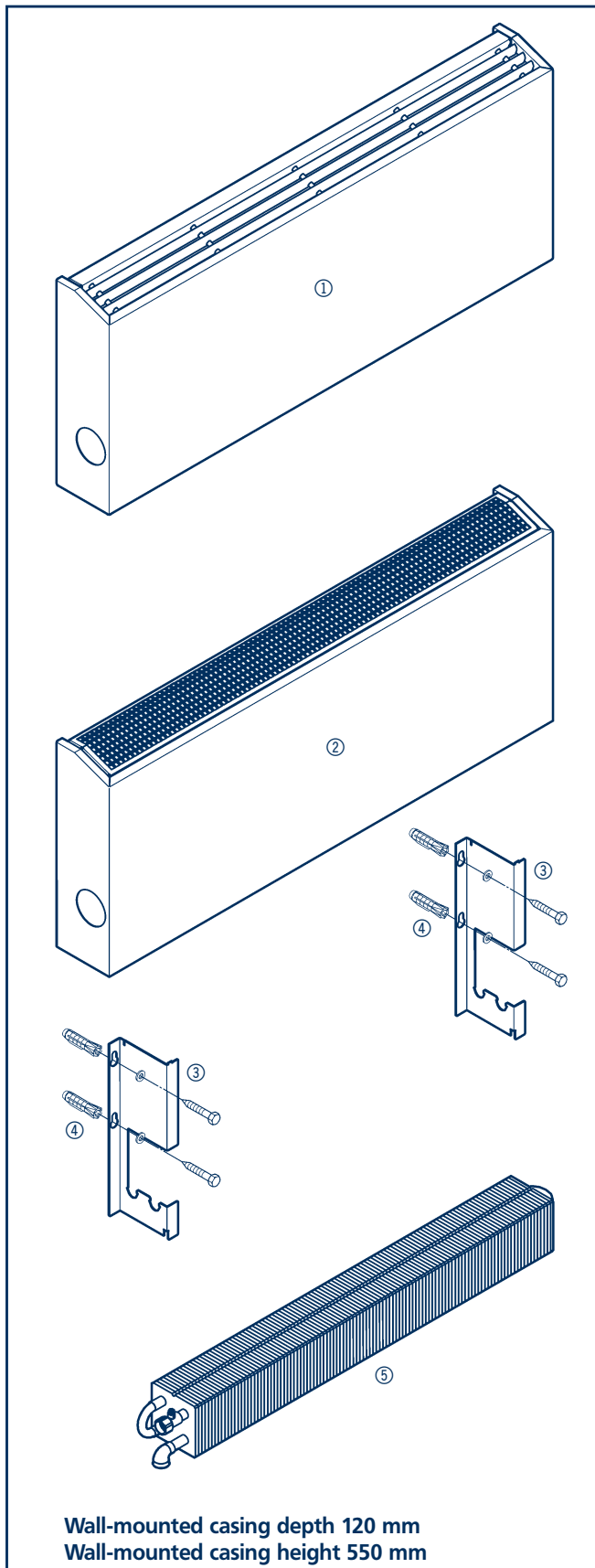
Wall casing height [mm]	Wall casing depth [mm]	Wall casing length L [mm]	Design ¹⁾	Type C-profile perforated profile	Convector height / depth [mm]	Factor n [-]	Heat output per m ¹⁾ LPHW 75/65 °C t _i = 20 °C m = 100 % [w/m]	Water content [l/m]	Weight [kg/m]
250	70	600-2600		625071_*	100 x 50	1.4092	434	0,29	6,3
	120			725071_*					
	170			625121_*	100 x 100	1.4290	873	0,71	7,8
	220	725121_*							
	220	600-2400	Wall-mounted convector, H = 250 mm, with perforated profile	625171_*	100 x 150	1.4736	1307	1,07	9,4
			725171_*						
400	70	600-2600		640071_*	100 x 50	1.3967	486	0,29	9,3
	120			740071_*					
	170			640121_*	100 x 100	1.3959	1030	0,71	11,0
	220	740121_*							
	220	600-2400	Wall-mounted convector, H = 400 mm, with C-profile	640171_*	100 x 150	1.4590	1574	1,07	12,8
			740171_*						
550	70	600-2600		655071_*	100 x 50	1.3864	534	0,29	12,3
	120			755071_*					
	170			655121_*	100 x 100	1.3571	1189	0,71	14,3
	220	755121_*							
	220	600-2400	Wall-mounted convector H = 550 mm, with perforated profile	655171_*	100 x 150	1.3699	1858	1,07	16,2
			755171_*						
700	70	600-2600		670071_*	100 x 50	1.3697	553	0,29	16,5
	120			770071_*					
	170			670121_*	100 x 100	1.3362	1271	0,71	18,6
	220	770121_*							
	220	600-2400	Wall-mounted convector, H = 700 mm, with C-profile	670171_*	100 x 150	1.3632	1977	1,07	20,8
			770171_*						
				670221_*	100 x 200	1.3521	2814	1,43	22,9
				770221_*					

Product description/
PowerKon + W accessories

¹⁾ Finned convector length (= casing length L - 195 mm)

* Enter the following figures for type number:
7th + 8th figure: casing length in dm,
e.g. 06 = casing length 600 mm

Article no. for DataNorm/EDV entry: 126 0 _ _ (Insert type no.)

**Scope of delivery - PowerKon + W**

- Wall-mounted sheet steel casing with long-lasting corrosion protection due to phosphating finish, powdercoated, complete with front panel and side panels; air outlet either as a perforated profile or as a liner grille with a C-profile
- PowerKon heat exchanger - copper/aluminium, coated
- Sheet steel brackets

Colours

Wall-mounted convectors and brackets are powdercoated as standard in RAL 9016 traffic white; other colours are available on request.

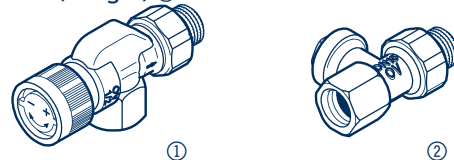
PowerKon heat exchangers

A Kampmann development with a whole host of advantages:

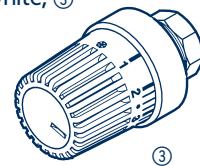
- Larger surface area due to corrugated aluminium fins producing a higher heat output from more compact dimensions
- Low water content - thus good controllability and quick warm-up times; refer to page 7 for water pressure figures
- Enhanced dimensional stability due to the multiple corrugation of the fins
- Operates at LPHW 75/65 °C; also operates very effectively with low water temperatures, such as 50/40 °C
- Refer to pages 10-13 for technical data/heat outputs

PowerKon + W optional accessories

- Convector fittings set, type 126102, consisting of 1/2" thermostatic valve body (axial) ① and 1/2" return shut-off valve (straight) ②



- Thermostatic valve head, white, ③ type 110210



- ① Wall-mounted casing with air outlet through C-profile linear grille
- ② Wall-mounted casing with air outlet through perforated profile
- ③ Brackets for wall-mounting
- ④ Fixing screws and rawlplugs (not included)
- ⑤ PowerKon heat exchanger, coated

Conversion of PowerKon + W heat outputs

The following formulae can be used to calculate the heat output with water temperatures not listed in the technical data:

Abbreviations

t_{w1}	[°C]	= Flow temperature
t_{w2}	[°C]	= Return temperature
t_L	[°C]	= Room air temperature
Δt_w	[K]	= Water temperature difference
Δt	[K]	= Mean excess temperature
Δt_{Ln}	[K]	= Logarithmically calculated excess temp.
f	[/]	= Heat output corrector factor
Q	[w]	= Heat output
Q_n	[w]	= Heat output at LPHW 75/65 °C, $t_L = 20$ °C
n	[/]	= Factor from overview on page 5
m	[l/h]	= Water flow rate
R	[Pa]	= Water pressure
r	[Pa/m]	= Water pressure per m of casing length
L	[mm]	= Casing length

Formulae

Δt	=	$\frac{t_{w1} + t_{w2}}{2} - t_L$	(1)
f	=	$\left[\frac{\Delta t}{50} \right]^n$	(2)
Q	=	$Q_n \cdot f$	(3)

Formula 1 does not apply to temperature ranges higher than 20 K or flow temperatures below 60 °C. In these cases the mean excess temperature should be calculated using the following formula:

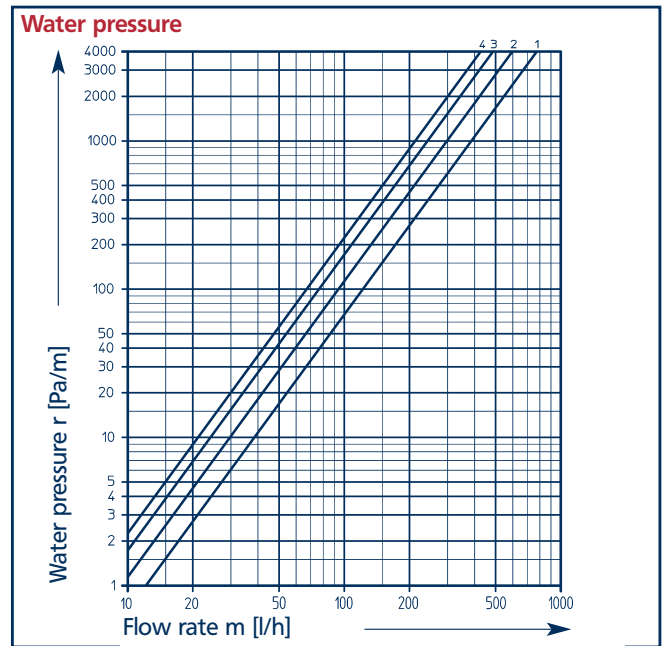
Δt	=	$\frac{t_{w1} - t_{w2}}{\ln \frac{t_{w1} - t_L}{t_{w2} - t_L}}$	(4)
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Use the following formula to calculate the water pressure:

Δt_w	=	$t_{w1} - t_{w2}$	(5)
m	=	$\frac{Q}{\Delta t_w} \cdot 0.86$	(6)
R	=	$\frac{r \cdot L}{1000}$	(7)

Diagrammatic curves

Casing height [mm]	[mm]	Casing depth [mm]			
		70	120	170	220
250	curve no.	1	2	3	4
400					
550					
700					
700					



Product description/
PowerKon + W accessories

Calculation of PowerKon + W

- required:** Heat output Q in w
Water pressure R in Pa
- given:** Water temperatures LPHW 60/50 °C
Room air temperature $t_L = 20$ °C
Wall-mounted casing height 400 mm
Wall-mounted casing depth 120 mm
Casing length 1600 mm

Calculation:

$$\Delta t = \frac{t_{w1} + t_{w2}}{2} - t_L \quad (1) \quad \Delta t = \frac{60 + 50}{2} - 20 = 35 \text{ K}$$

$$f = \left[\frac{\Delta t}{50} \right]^n \quad (2) \quad f = \left[\frac{35}{50} \right]^{1.3959} = 0.61$$

Factor n from overview on page 5; from technical data on page 11:

Heat output at LPHW 75/65 °C, $t_L = 20$ °C,
 $L = 1600$ mm, $Q_n = 1447$ w

$$Q = Q_n \cdot f \quad (3) \quad Q = 1447 \cdot 0.61 = \underline{883 \text{ w}}$$

$$\Delta t_w = t_{w1} - t_{w2} \quad (5) \quad \Delta t_w = 60 - 50 = 10 \text{ K}$$

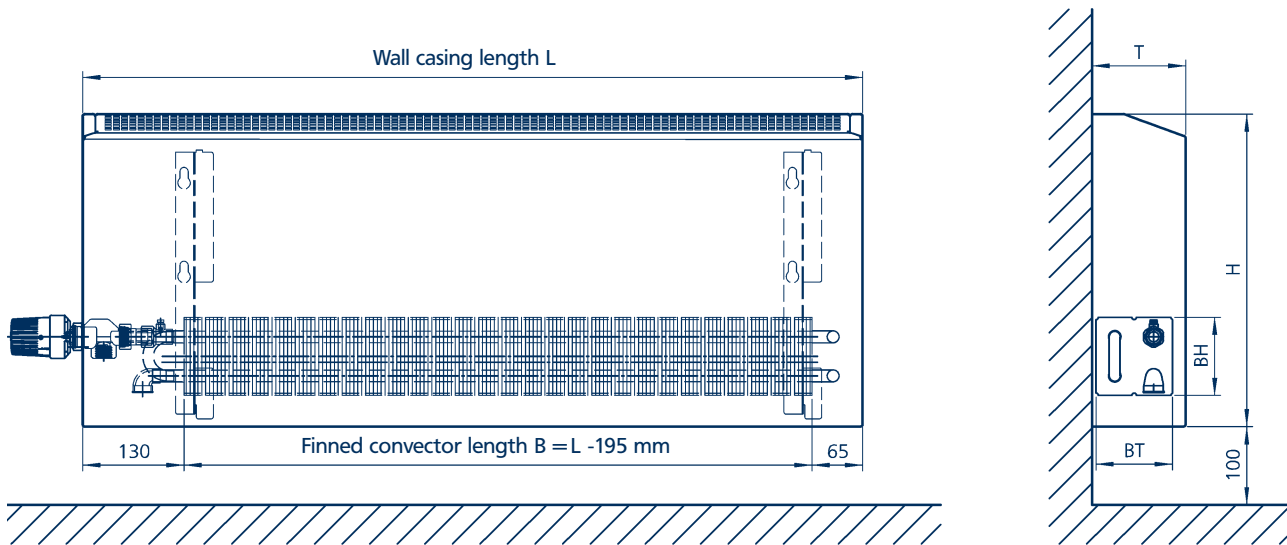
$$m = \frac{Q}{\Delta t_w} \cdot 0.86 \quad (6) \quad m = \frac{883}{10} \cdot 0.86 = 76 \text{ l/h}$$

From the Diagrammatic curve table: curve 2; from Water pressure graph: at $m = 76$ l/h and curve 2: $r = 65$ Pa/m

$$R = \frac{r \cdot L}{1000} \quad (7) \quad R = \frac{65 \cdot 1600}{1000} = \underline{104 \text{ Pa}}$$

Result:
Heat output $Q = 883 \text{ kW}$
Water pressures $R = 104 \text{ Pa}$

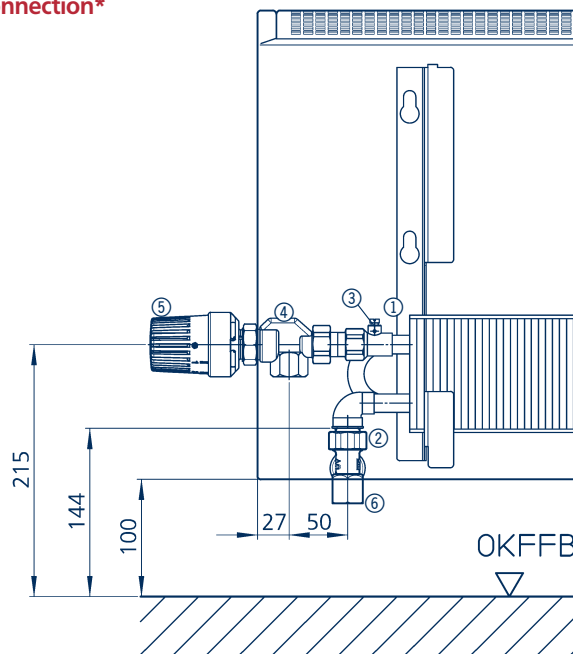
Dimensions of PowerKon + W



Wall-mounted casing depth T	mm	70	120	170	220
Convector height / depth BH x BT	mm	100 x 50	100 x 100	100 x 150	100 x 200
Wall-mounted convector height H	mm	250/400/550/700			

Technical data
PowerKon + W

Dimensions of valve connection*

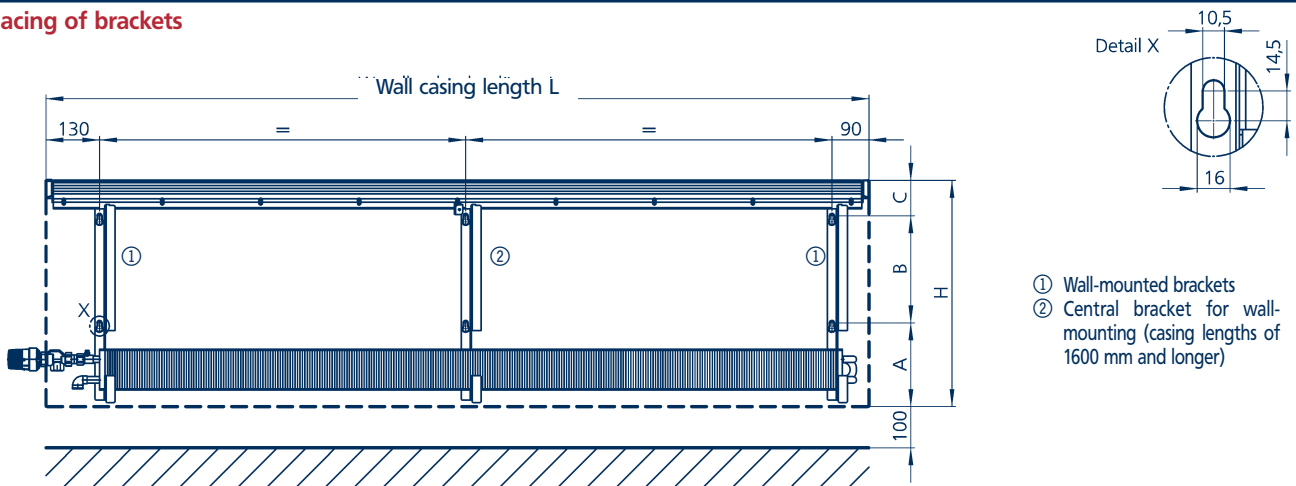


- ① Flow connection 1/2"
- ② Return connection 1/2"
- ③ Air vent
- ④ Thermostatic valve body 1/2" (accessory)
- ⑤ Thermostatic valve head (accessory)
- ⑥ Return shut-off valve 1/2" (accessory)

*Dimensions are based on Kampmann convector fittings set type 126102 (optional accessories)

Dimensions of PowerKon + W

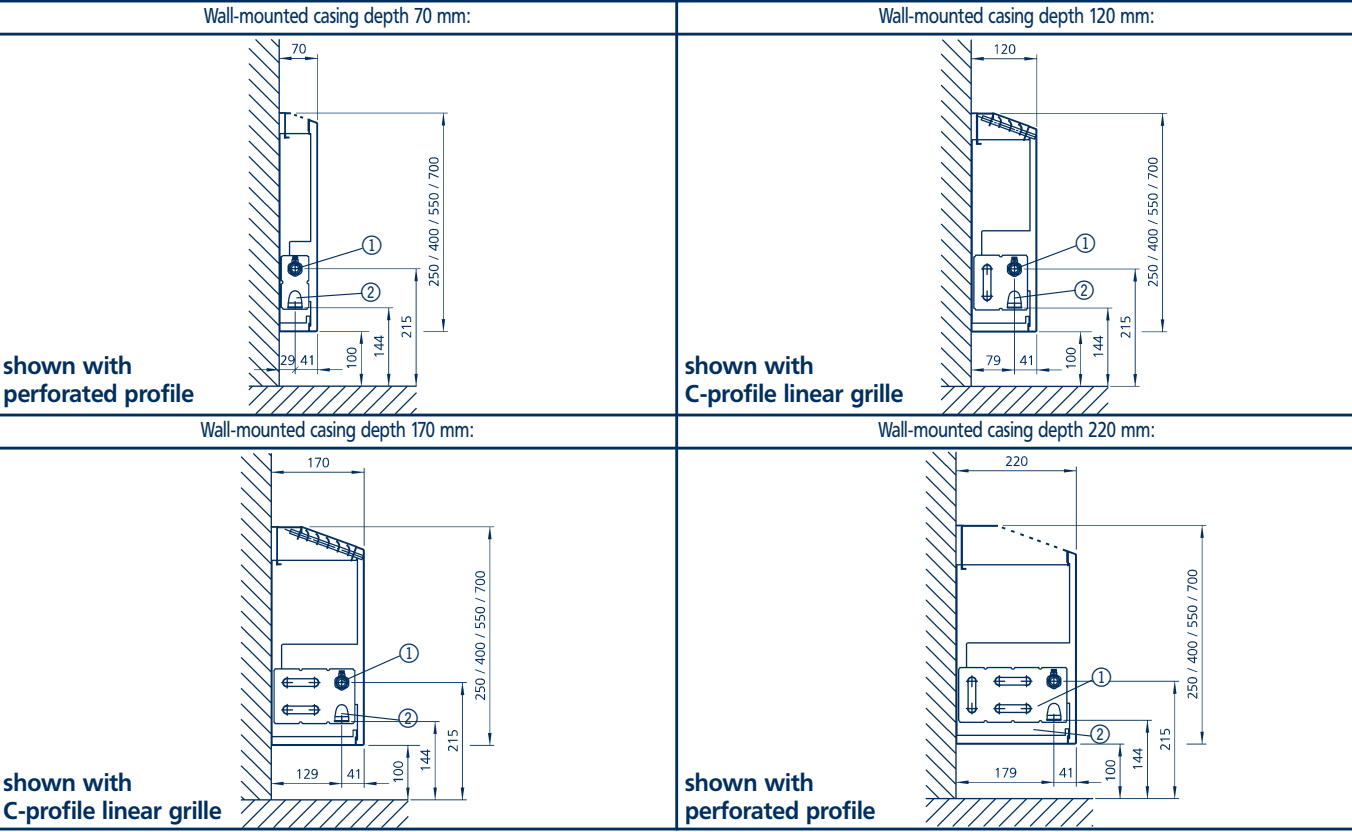
Spacing of brackets



Wall-mounted casing height H	Wall-mounted casing depth T											
	70 mm			120 mm			170 mm			220 mm		
	A mm	B mm	C mm	A mm	B mm	C mm	A mm	B mm	C mm	A mm	B mm	C mm
250 mm	27	160	63	27	160	63	24	140	86	24	139	87
400 mm	187	150	63	207	120	73	204	110	86	203	100	97
550 mm	204	260	86	207	270	73	204	260	86	203	250	97
700 mm	187	450	63	207	420	73	204	410	86	203	400	97

Technical data
PowerKon + W

Dimensions of water connections



- ① Flow connection 1/2"
- ② Return connection 1/2"

Heat outputs - Wall-mounted casing height 250 mm

Wall casing height	mm	250															
C profile		625071_*_				625121_*_				625171_*_				625221_*_			
Perforated profile		725071_*_				725121_*_				725171_*_				725221_*_			
Wall casing depth	mm	70				120				170				220			
Convector height	mm	100				100				100				100			
Convector depth	mm	50				100				150				200			
Connection		½", same end															
Water temp	Casing length L [mm]	Heat output in watts at a room temperature t _r [°C] of															
		15	18	20	22	15	18	20	22	15	18	20	22	15	18	20	22
LPWW 55/45 °C	600	106	94	86	78	212	187	170	154	313	274	249	225	423	371	338	306
	700	133	117	107	97	265	233	212	193	390	342	311	281	527	463	421	381
	800	159	140	128	116	317	279	255	231	467	410	372	336	632	555	505	457
	900	185	163	149	135	370	325	297	269	545	477	434	392	736	646	588	532
	1000	211	186	170	154	422	371	339	307	622	545	496	448	841	738	672	608
	1100	238	209	191	173	475	418	381	345	699	613	557	503	945	830	755	683
	1200	264	233	212	193	527	464	423	383	777	681	619	559	1050	921	839	759
	1400	316	279	255	231	632	556	507	459	931	816	742	670	1258	1105	1006	909
	1600	369	325	297	269	737	648	591	536	1086	951	865	781	1467	1288	1172	1060
	1800	421	371	339	308	842	740	675	612	1240	1087	988	893	1676	1471	1339	1211
	2000	474	418	381	346	947	833	759	688	1395	1222	1111	1004	1885	1655	1506	1362
2200	526	464	424	384	1051	925	844	764	1549	1358	1234	1115	2094	1838	1673	1513	
2400	579	510	466	423	1156	1017	928	841	1704	1493	1358	1226	2303	2021	1840	1664	
2600	631	557	508	461	1261	1110	1012	917	1858	1628	1481	1338	2512	2205	2007	1815	
LPHW 70/55 °C	600	164	149	140	131	329	299	280	262	491	446	417	388	660	600	561	523
	700	204	186	174	163	410	373	349	326	612	556	519	484	823	748	700	652
	800	244	223	209	195	491	447	419	391	733	666	622	580	985	896	838	781
	900	285	260	243	227	572	521	488	455	854	776	725	675	1148	1044	977	911
	1000	325	296	278	260	653	595	557	520	976	886	828	771	1311	1192	1115	1040
	1100	365	333	312	292	734	669	626	585	1097	996	931	867	1474	1341	1254	1169
	1200	406	370	347	324	815	743	696	649	1218	1106	1034	963	1637	1489	1392	1298
	1400	487	444	416	389	978	891	834	778	1460	1326	1240	1155	1963	1785	1669	1556
	1600	567	517	485	453	1140	1038	972	908	1703	1547	1445	1346	2288	2081	1946	1815
	1800	648	591	554	518	1302	1186	1111	1037	1945	1767	1651	1538	2614	2377	2223	2073
	2000	729	665	623	582	1464	1334	1249	1166	2187	1987	1857	1729	2940	2674	2501	2331
2200	809	738	692	647	1627	1482	1388	1295	2430	2207	2062	1921	3266	2970	2778	2589	
2400	890	812	761	711	1789	1630	1526	1424	2672	2427	2268	2113	3591	3266	3055	2848	
2600	971	886	830	776	1951	1777	1664	1554	2915	2647	2474	2304	3917	3562	3332	3106	
LPHW 75/65 °C	600	201	186	176	166	405	374	354	334	609	561	529	498	817	753	711	670
	700	251	232	219	207	505	466	441	416	760	699	660	622	1018	938	886	835
	800	300	277	263	248	605	559	528	498	910	838	791	745	1220	1124	1062	1001
	900	350	323	306	289	705	651	615	581	1060	976	921	868	1421	1310	1237	1166
	1000	400	369	349	330	805	743	703	663	1211	1115	1052	991	1623	1496	1413	1331
	1100	449	415	393	371	905	836	790	745	1361	1253	1183	1114	1825	1682	1588	1497
	1200	499	461	436	412	1005	928	877	828	1512	1392	1314	1237	2026	1867	1764	1662
	1400	598	553	523	494	1205	1113	1052	992	1812	1669	1575	1483	2429	2239	2115	1993
	1600	697	644	610	576	1406	1297	1227	1157	2113	1946	1836	1729	2833	2611	2466	2324
	1800	797	736	697	658	1606	1482	1401	1322	2414	2223	2098	1975	3236	2982	2817	2654
	2000	896	828	783	740	1806	1667	1576	1486	2715	2499	2359	2221	3639	3354	3168	2985
2200	995	920	870	822	2006	1851	1750	1651	3016	2776	2621	2468	4042	3725	3519	3316	
2400	1095	1011	957	903	2206	2036	1925	1816	3317	3053	2882	2714	4446	4097	3870	3647	
2600	1194	1103	1044	985	2406	2221	2100	1981	3617	3330	3143	2960	4849	4469	4221	3977	
LPHW 82/71 °C	600	235	219	209	198	475	442	421	400	718	667	634	601	961	893	849	806
	700	293	273	260	247	593	552	525	499	895	832	790	749	1198	1114	1059	1005
	800	352	328	312	296	710	661	629	597	1073	997	947	898	1435	1334	1268	1204
	900	410	382	363	345	827	770	733	696	1250	1161	1103	1046	1672	1555	1478	1403
	1000	468	436	415	394	945	880	837	795	1427	1326	1260	1195	1909	1775	1688	1602
	1100	526	490	467	443	1062	989	941	894	1605	1491	1416	1343	2147	1996	1897	1800
	1200	584	544	518	492	1179	1098	1045	992	1782	1655	1573	1491	2384	2217	2107	1999
	1400	700	652	621	590	1414	1317	1253	1190	2137	1985	1886	1788	2858	2658	2526	2397
	1600	816	761	724	689	1649	1535	1461	1387	2491	2314	2199	2085	3333	3099	2946	2795
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	2000	1049	977	931	885	2118	1972	1876	1782	3201	2973	2825	2679	4281	3981	3784	3591
2200	1165	1086	1034	983	2353	2191	2084	1980	3555	3303	3138	2975	4756	4422	4204	3989	
2400	1281	1194	1137	1081	2588	2409	2292	2177	3910	3632	3451	3272	5230	4863	4623	4387	
2600	1397	1302	1240	1179	2822	2628	2500	2375	4265	3962	3764	3569	5705	5304	5042	4785	

* Insert figures to complete type no.:
7th + 8th figure: casing length in dm, e.g. 06 = casing length 600 mm

Article no. for DataNorm/EDV entry: 126 0 ___ (Insert type)

Heat outputs - Wall-mounted casing height 400 mm

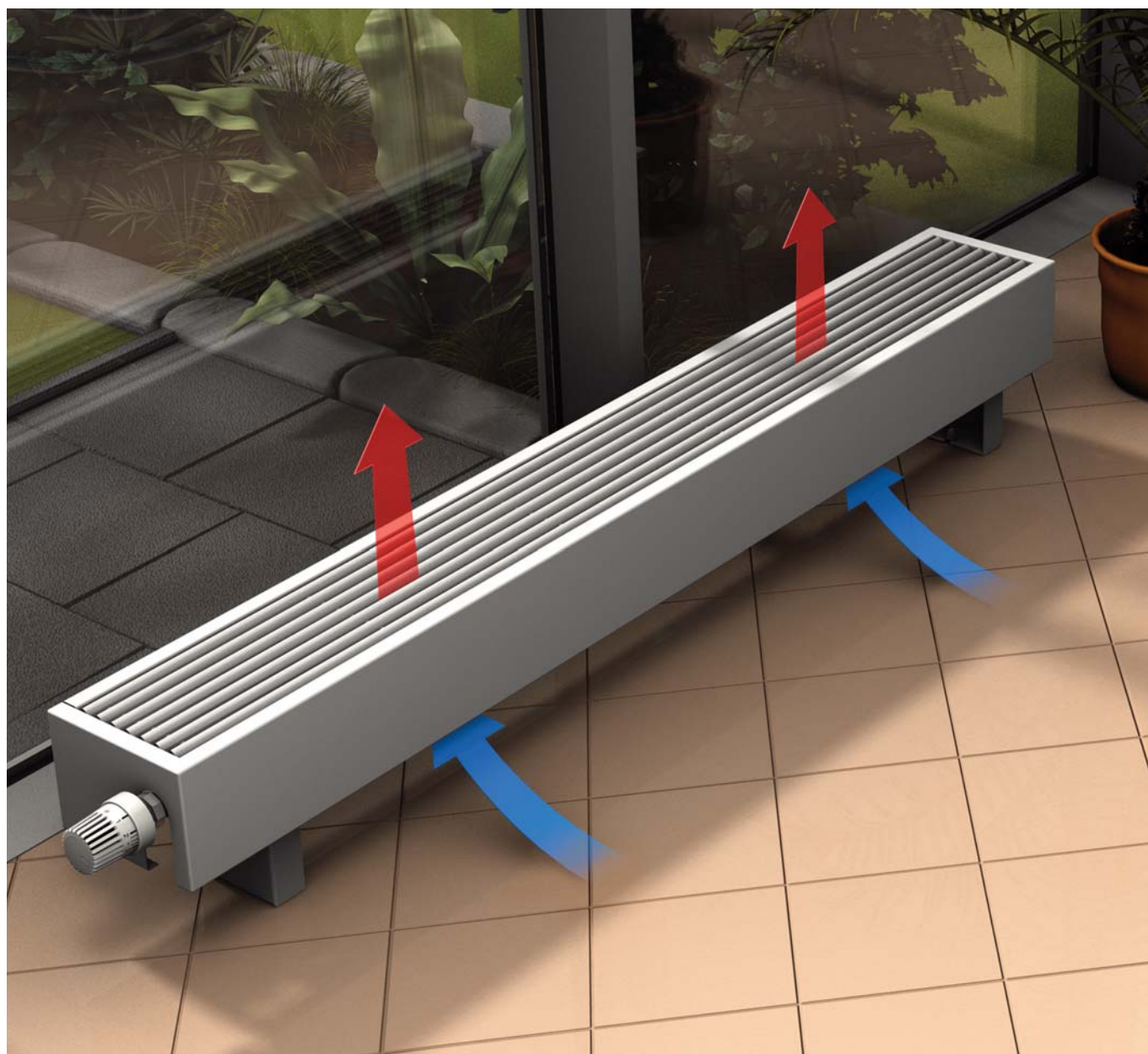
Wall casing height	mm	400															
C profile		640071 *_				640121 *_				640171 *_				640221 *_			
Perforated profile		740071 *_				740121 *_				740171 *_				740221 *_			
Wall casing depth	mm	70				120				170				220			
Convector height	mm	100				100				100				100			
Convector depth	mm	50				100				150				200			
Connection		½ ", same end															
Water temp.	Casing length L [mm]	Heat output in watts at a room temperature t _r [°C] of															
		15	18	20	22	15	18	20	22	15	18	20	22	15	18	20	22
LPWW 55/45 °C	600	120	106	96	88	254	224	204	186	379	332	303	274	538	475	433	393
	700	149	132	120	109	316	279	255	232	472	414	377	341	671	592	540	490
	800	179	158	144	131	379	334	305	277	566	497	452	409	804	709	647	587
	900	208	184	168	152	441	389	356	323	659	579	527	476	937	826	754	684
	1000	238	210	192	174	504	445	406	369	753	661	601	544	1070	943	861	781
	1100	267	236	215	196	567	500	457	415	847	743	676	611	1203	1060	968	878
	1200	297	262	239	217	629	555	507	461	940	825	751	679	1336	1178	1075	975
	1400	356	314	287	261	754	666	608	552	1127	989	900	814	1602	1412	1289	1170
	1600	415	366	335	304	880	776	709	644	1314	1153	1050	949	1868	1646	1503	1364
	1800	474	418	382	347	1005	887	810	736	1501	1317	1199	1084	2134	1881	1717	1558
	2000	533	470	430	390	1130	997	911	828	1688	1481	1348	1219	2400	2115	1931	1752
2200	592	522	477	434	1255	1108	1012	919	1876	1646	1498	1354	2666	2349	2145	1946	
2400	651	575	525	477	1380	1218	1113	1011	2063	1810	1647	1489	2932	2584	2359	2140	
2600	710	627	573	520	1506	1329	1214	1103	2250	1974	1797	1625	3198	2818	2573	2334	
LPHW 70/55 °C	600	183	167	157	147	388	355	332	311	592	538	503	469	828	756	708	662
	700	228	209	196	183	484	442	415	388	738	671	627	584	1033	942	883	825
	800	274	250	234	219	580	530	497	464	884	803	751	700	1238	1129	1058	988
	900	319	291	273	255	676	617	579	541	1030	936	875	816	1442	1315	1233	1152
	1000	364	332	312	291	772	705	661	618	1176	1069	1000	932	1647	1502	1408	1315
	1100	409	374	351	328	868	792	743	695	1322	1202	1124	1047	1851	1688	1582	1478
	1200	455	415	389	364	964	880	825	771	1468	1335	1248	1163	2056	1875	1757	1642
	1400	545	498	467	436	1155	1055	989	925	1760	1600	1496	1395	2465	2248	2107	1968
	1600	636	580	544	509	1347	1230	1153	1078	2052	1866	1745	1626	2874	2621	2457	2295
	1800	726	663	622	581	1539	1405	1318	1232	2344	2131	1993	1858	3283	2994	2806	2622
	2000	817	745	699	654	1731	1580	1482	1385	2636	2397	2241	2089	3692	3368	3156	2949
2200	907	828	777	726	1922	1755	1646	1539	2928	2662	2490	2321	4101	3741	3506	3275	
2400	998	911	854	798	2114	1930	1810	1692	3220	2928	2738	2552	4510	4114	3855	3602	
2600	1088	993	931	871	2306	2105	1974	1846	3513	3194	2986	2784	4919	4487	4205	3929	
LPHW 75/65 °C	600	225	208	197	186	477	441	417	394	733	675	637	601	1019	941	891	841
	700	280	259	245	232	594	549	520	491	913	842	795	749	1270	1174	1110	1048
	800	336	311	294	278	712	658	623	589	1094	1008	952	897	1522	1406	1330	1256
	900	391	362	343	324	829	767	726	686	1275	1175	1110	1046	1773	1638	1550	1464
	1000	447	413	391	370	947	876	829	783	1456	1342	1267	1194	2025	1871	1770	1671
	1100	502	465	440	415	1065	985	932	881	1637	1508	1424	1342	2276	2103	1990	1879
	1200	558	516	488	461	1182	1093	1035	978	1818	1675	1582	1490	2528	2336	2210	2086
	1400	669	619	586	553	1418	1311	1241	1172	2180	2008	1897	1787	3031	2801	2650	2502
	1600	780	721	683	645	1653	1529	1447	1367	2541	2342	2211	2084	3534	3265	3090	2917
	1800	891	824	780	737	1888	1746	1653	1562	2903	2675	2526	2380	4037	3730	3529	3332
	2000	1002	927	877	829	2124	1964	1859	1756	3265	3008	2841	2677	4540	4195	3969	3747
2200	1113	1029	974	920	2359	2181	2065	1951	3627	3342	3156	2973	5043	4660	4409	4162	
2400	1224	1132	1072	1012	2594	2399	2271	2145	3988	3675	3471	3270	5547	5125	4849	4577	
2600	1335	1235	1169	1104	2830	2617	2477	2340	4350	4008	3785	3567	6050	5589	5289	4993	
LPHW 82/71 °C	600	263	245	233	222	557	519	495	470	862	802	762	723	1193	1111	1058	1006
	700	328	306	291	277	694	648	617	587	1075	999	950	901	1487	1386	1319	1254
	800	393	366	349	332	832	776	739	703	1288	1197	1138	1080	1782	1660	1581	1502
	900	458	427	406	386	969	904	861	819	1501	1395	1326	1258	2076	1935	1842	1751
	1000	522	487	464	441	1107	1032	983	935	1714	1593	1514	1437	2371	2209	2103	1999
	1100	587	548	522	496	1244	1161	1106	1051	1927	1791	1703	1615	2665	2483	2365	2247
	1200	652	608	579	551	1382	1289	1228	1167	2140	1989	1891	1794	2959	2758	2626	2496
	1400	782	729	695	661	1657	1545	1472	1400	2565	2385	2267	2151	3548	3307	3148	2992
	1600	912	850	810	770	1932	1802	1716	1632	2991	2781	2643	2508	4137	3856	3671	3489
	1800	1042	971	925	880	2207	2058	1961	1864	3417	3177	3019	2865	4726	4404	4193	3986
	2000	1171	1092	1041	989	2482	2315	2205	2097	3843	3572	3396	3222	5315	4953	4716	4482
2200	1301	1213	1156	1099	2757	2571	2449	2329	4269	3968	3772	3579	5904	5502	5239	4979	
2400	1431	1334	1271	1209	3032	2828	2694	2561	4696	4364	4148	3936	6493	6051	5761	5476	
2600	1561	1455	1386	1318	3307	3084	2938	2794	5120	4760	4524	4293	7082	6600	6284	5972	

Technical data
PowerKon + W

Insert figures to complete type no.:
7th + 8th figure: casing length in dm, e.g. 06 = casing length 600 mm

Article no. for DataNorm/EDV entry: 126 0 __ (Insert type)



Free-standing encased models with PowerKon heat exchangers

PowerKon + F Free-standing encased convectors – The simple way to heat your room

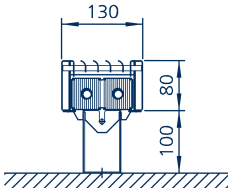
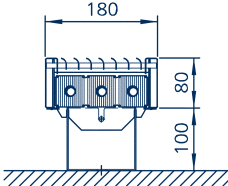
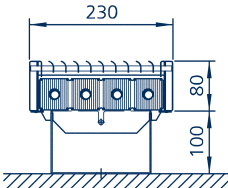
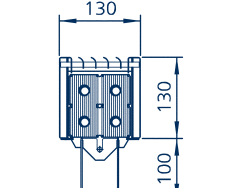
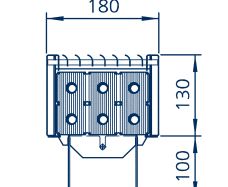
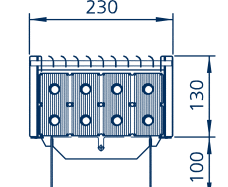
Kampmann free-standing encased convectors with PowerKon copper/aluminium heat exchangers are a functional and cost-effective option of encased use of convectors.

The universal design and compact style with a low height and depth mean that they can be unobtrusively positioned around the facade of a building. The high-capacity heat exchangers have corrugated fins for a greater contact surface. What is now new is the Kampmann quick-fit system, based on a single prefabricated unit casing, which can be fitted without the need for screws.

In spite of their high levels of heat output, free-standing encased

convectors have a very low water content. This means that they have short warm-up times and can be precisely controlled.

- All casing parts, including the linear outlet grille and steel brackets, have a lasting phosphate corrosion-proof finish and are powdercoated in RAL 9016
- Supplied ready-to-install with pre-bored valve openings
- Standardised dimensions
- Casing length of from 600 to 2600 mm
- Casing height of from 80 to 130 mm
- Casing depth of 130, 180 and 230 mm
- Single end connection
- Heat outputs tested in line with DIN EN 442

Overview of types - PowerKon + F free-standing encased convectors								
Free-standing casing height [mm]	Free-standing casing depth [mm]	Free-standing casing length L [mm]	Design ¹⁾	Type	Convector height / depth [mm]	Factor n [-]	Heat output per m ¹⁾ LPHW 75/65 °C t _i = 20 °C m = 100 % [w/m]	Water content [l/m]
80	130	600 - 2600		90813_ *_ _	50/100	535	0.29	3,6
	180	600 - 2600		90818_ *_ _	50/150	746	0.54	4,9
	230	600 - 2600		90823_ *_ _	50/200	1123	0.71	6,2
130	130	600 - 2600		91313_ *_ _	100/100	754	0.71	5,7
	180	600 - 2600		91318_ *_ _	100/150	1112	1.07	7,8
	230	600 - 2600		91323_ *_ _	100/200	1522	1.43	10,0

Product description/
PowerKon + F accessories

¹⁾Shown with brackets for finished floors

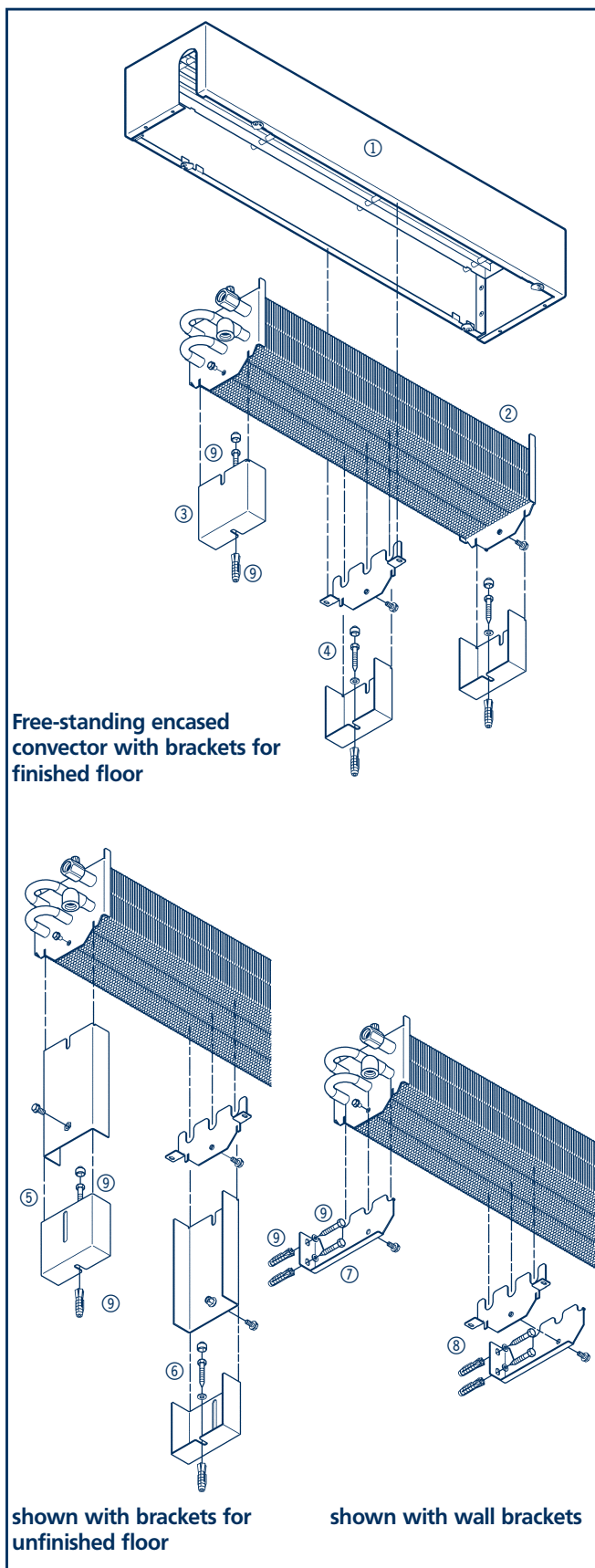
²⁾Finned convector length (= casing length L - 185 mm)

*Add the following figures to complete the type no.:

6th figure 1 = with brackets for finished floor
2 = with brackets for unfinished floor
3 = with wall brackets

7th + 8th figure: casing length in dm
e.g. 06 = casing length 600 mm

Article no. for DataNorm/EDV entry: 126 0 _ _ (Insert type)



Product description/
PowerKon + F accessories

Scope of delivery - PowerKon + F

- Wall-mounted sheet steel casing with long-lasting corrosion protection due to phosphating finish, powdercoated, complete with front panel and side panels; air outlet either as a perforated profile or as a liner grille with a C-profile
- PowerKon heat exchanger - copper/aluminium, coated
- Sheet steel brackets, number corresponds to the casing length. There is a choice of:
 - Brackets for finished floors
 - Brackets for unfinished floors
 - Wall brackets

Colours

Free-standing encased convectors and brackets are powdercoated as standard in RAL 9016 traffic white; other colours are available on request.

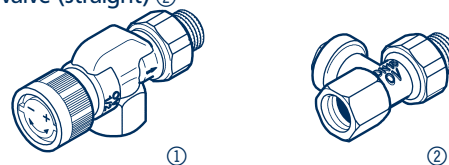
PowerKon heat exchangers

A Kampmann development with a whole host of advantages:

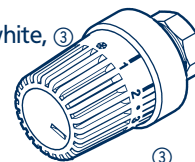
- Larger surface area due to corrugated aluminium fins producing a higher heat output from more compact dimensions
- Low water content - thus good controllability and quick warm-up times; refer to page 7 for water pressure figures
- Enhanced dimensional stability due to the multiple corrugation of the fins
- Operates at LPHW 75/65 °C; also operates very effectively with low water temperatures, such as 50/40 °C
- Refer to pages 10-13 for technical data and heat outputs

PowerKon + F optional accessories

- Convector fittings set, type 126102, consisting of 1/2" thermostatic valve body (axial) ① and 1/2" return shut-off valve (straight) ②



- Thermostatic valve head, white, ③ type 110210



- ① Free-standing casing, powdercoated
- ② PowerKon heat exchanger, coated
- ③ Brackets for finished floor
- ④ Central brackets for finished floor (casing length 1600 mm and longer)
- ⑤ Brackets for unfinished floor
- ⑥ Central brackets for unfinished floor (casing length 1600 mm and longer)
- ⑦ Wall brackets
- ⑧ Central wall brackets (casing length 1600 mm and longer)
- ⑨ Fixing screws and rawlplugs (not included)

Article no. for DataNorm/EDV entry: 194000 (Insert type)
(optional accessories)

Conversion of PowerKon + F heat outputs

The following formulae can be used to calculate the heat output with water temperatures not listed in the technical data on pages 20-21.

Abbreviations

t_{w1}	[°C]	= Flow temperature
t_{w2}	[°C]	= Return temperature
t_L	[°C]	= Room air temperature
Δt_w	[K]	= Water temperature difference
Δt	[K]	= Mean excess temperature
Δt_{Ln}	[K]	= Logarithmically calculated excess temp.
f	[/]	= Heat output corrector factor
Q	[w]	= Heat output
Q_n	[w]	= Heat output at LPHW 75/65 °C, $t_L = 20$ °C
n	[/]	= Factor from overview on page 5
m	[l/h]	= Water flow rate
R	[Pa]	= Water pressure
r	[Pa/m]	= Water pressure per m of casing length
L	[mm]	= Casing length

Formulae

$$\Delta t = \frac{t_{w1} + t_{w2}}{2} - t_L \quad (1)$$

$$f = \left[\frac{\Delta t}{50} \right]^n \quad (2)$$

$$Q = Q_n \cdot f \quad (3)$$

Formula 1 does not apply to ranges greater than 20 K or flow temperatures below 60 °C. In these cases the mean excess temperature should be calculated using the following formula:

$$\Delta t = \frac{t_{w1} - t_{w2}}{\ln \frac{t_{w1} - t_L}{t_{w2} - t_L}} \quad (4)$$

Use the following formula to calculate the water pressure:

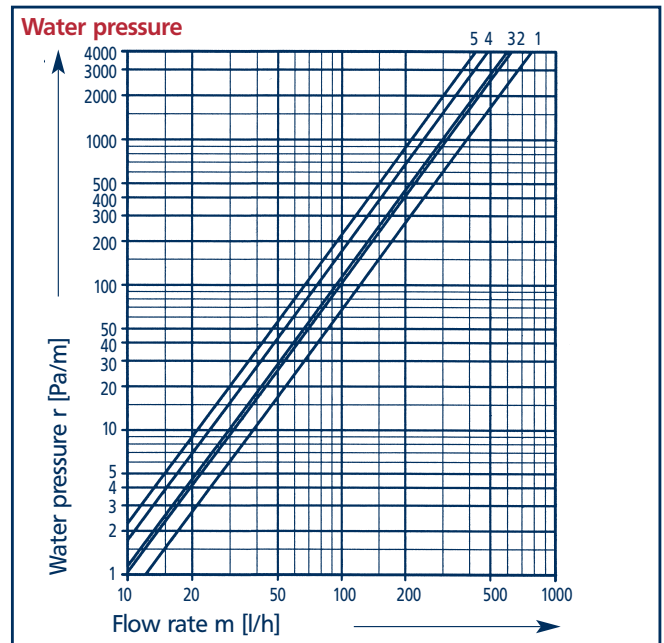
$$\Delta t_w = t_{w1} - t_{w2} \quad (5)$$

$$m = \frac{Q}{\Delta t_w} \cdot 0.86 \quad (6)$$

$$R = \frac{r \cdot L}{1000} \quad (7)$$

Diagrammatic curves

Casing height [mm]	80			130		
Casing depth [mm]	130	180	230	130	180	230
Curve no.	1	2	3	3	4	5



Calculation with PowerKon + F

- required:** Heat output Q in w
Water pressure R in Pa
- given:** Water temperatures LPHW 65/50 °C
Room air temperature $t_L = 20$ °C
Free-standing convector type 91318114
Casing height 130 mm, Casing depth 180 mm
Casing length 1400 mm

Calculation:

$$\Delta t = \frac{t_{w1} + t_{w2}}{2} - t_L \quad (1) \quad \Delta t = \frac{65 + 50}{2} - 20 = 37.5 \text{ K}$$

$$f = \left[\frac{\Delta t}{50} \right]^n \quad (2) \quad f = \left[\frac{37.5}{50} \right]^{1.43} = 0.66$$

from Technical Data on page 21:
Nominal heat output at LPHW 75/65 °C, $t_L = 20$ °C,
 $L = 1400$ mm, $Q_n = 1351$ W

$$Q = Q_n \cdot f \quad (3) \quad Q = 1351 \cdot 0.66 = \underline{892 \text{ W}}$$

$$\Delta t_w = t_{w1} - t_{w2} \quad (5) \quad \Delta t_w = 65 - 50 = 15 \text{ K}$$

$$m = \frac{Q}{\Delta t_w} \cdot 0.86 \quad (6) \quad m = \frac{892}{15} \cdot 0.86 = 51 \text{ l/h}$$

From Diagrammatic curves table: curve 4; from Water pressure diagram: at $m = 51$ l/h and curve 4: $r = 44$ Pa/m

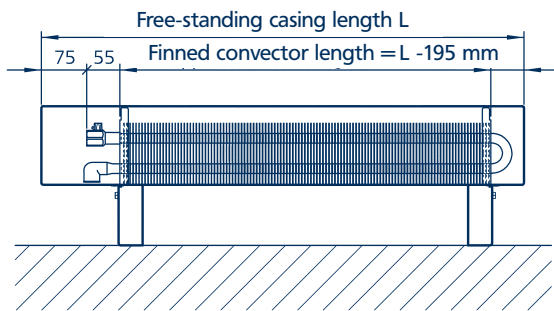
$$R = \frac{r \cdot L}{1000} \quad (7) \quad R = \frac{44 \cdot 1400}{1000} = \underline{62 \text{ Pa}}$$

Result:

Heat output $Q = 892 \text{ kW}$
Water pressure $R = 62 \text{ Pa}$

Product description/
PowerKon + F accessories

Dimensions of PowerKon + F



Casing height 130 mm, with brackets for finished floor

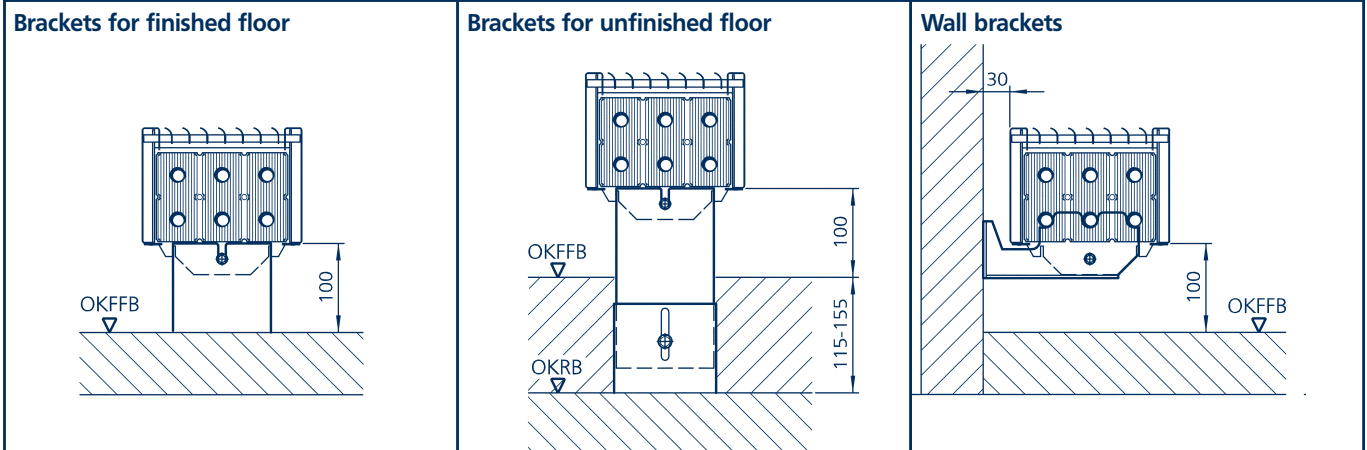
Casing height [mm]	Casing depth [mm]	Dimensions of valve connection*
80	130	
	180	
	230	
130	130	
	180	
	230	

Casing depth mm	A mm	B mm
130	41	22
230	41	22
180	34	29

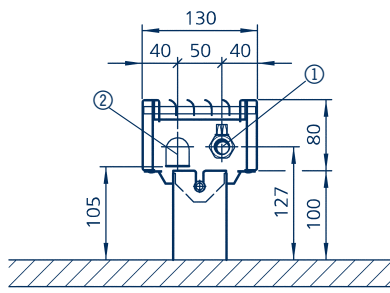
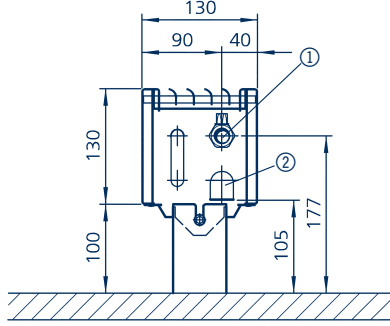
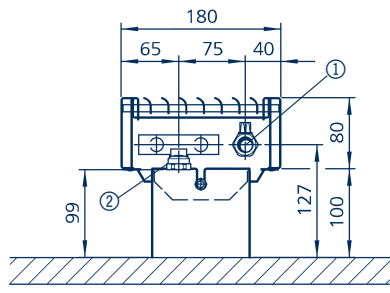
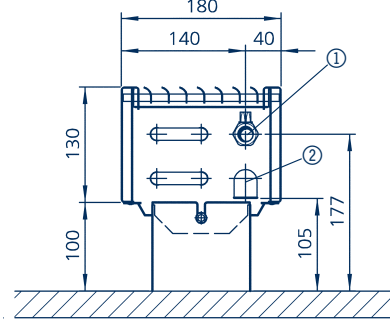
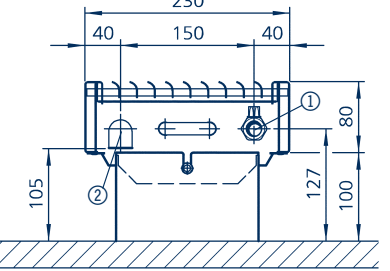
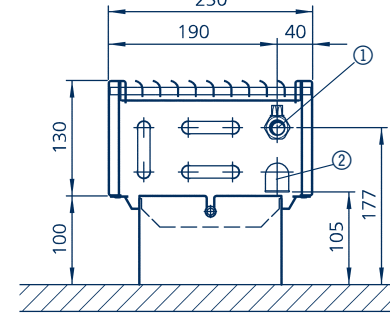
<ul style="list-style-type: none"> ① Flow connection 1/2" ② Return connection 1/2" ③ Air vent ④ Thermostatic valve body 1/2" (accessory) ⑤ Thermostatic valve head (accessory) ⑥ Return shut-off valve 1/2" (accessory) 	<p>*Dimensions are based on Kampmann convector valve fittings set type 126102 (optional accessory); free-standing encased convector is shown with brackets for finished floor, with convector fittings set and thermostatic valve head</p>
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Technical data
PowerKon + F

Spacing of brackets*



Dimensions of water connections**

Casing depth [mm]	Casing height 80 mm	Casing height 130 mm
130 mm		
180 mm		
230 mm		

Technical data
PowerKon + F

* Free-standing encased convector is shown with brackets for finished floor; casing height 130 mm, casing depth 180 mm

**Free-standing encased convector is shown with brackets for finished floor

① 1/2" flow connection

② 1/2" return connection

Heat outputs with casing height 80 mm

Casing height	mm	80														
Type		90813_*					90818_*					90823_*				
Casing depth	mm	130					180					230				
Convector height	mm	50					50					50				
Convector depth	mm	100					150					200				
Connection 1/2"		1/2", same end														
Water temp.	Casing length L [mm]	Heat output in watts at a room temperature t _r [°C] of														
		15	18	20	22	24	15	18	20	22	24	15	18	20	22	24
LPWW 55/45 °C	600	133	117	107	97	87	186	164	149	135	122	280	246	224	203	183
	700	165	146	133	120	108	231	203	185	168	151	347	306	279	252	227
	800	198	174	158	144	129	275	242	221	200	180	415	365	333	301	271
	900	230	202	184	167	150	320	282	257	233	209	482	424	387	350	315
	1000	262	230	210	190	171	365	321	293	265	239	550	483	441	399	359
	1100	294	259	236	214	192	410	361	329	298	268	617	543	495	448	403
	1200	326	287	262	237	213	455	400	365	330	297	684	602	549	497	447
	1400	390	343	313	284	255	544	479	437	396	356	819	721	657	595	536
	1600	455	400	365	330	297	634	558	508	461	414	954	839	765	693	624
	1800	519	456	416	377	339	723	636	580	526	473	1089	958	874	792	712
	2000	583	513	468	424	381	813	715	652	591	531	1224	1077	982	890	800
2200	647	569	519	470	423	903	794	724	656	590	1359	1195	1090	988	888	
2400	712	626	571	517	465	992	873	796	721	649	1494	1314	1198	1086	976	
2600	776	683	622	564	507	1082	952	868	786	707	1628	1433	1306	1184	1065	
LPHW 70/55 °C	600	206	188	176	164	153	288	262	245	229	213	433	395	369	345	321
	700	256	233	218	204	190	357	325	305	284	264	537	490	458	428	398
	800	306	279	261	243	226	426	388	364	339	316	642	585	547	511	475
	900	355	324	303	283	263	496	452	423	395	367	746	680	636	594	553
	1000	405	369	346	323	300	565	515	482	450	418	851	775	725	677	630
	1100	455	414	388	362	337	634	578	541	505	470	955	870	814	760	707
	1200	505	460	430	402	374	704	641	600	560	521	1059	965	903	843	784
	1400	604	550	515	481	447	842	767	718	671	624	1268	1155	1081	1009	939
	1600	703	641	600	560	521	981	894	837	781	726	1477	1345	1260	1176	1093
	1800	803	731	685	639	595	1120	1020	955	891	829	1685	1535	1438	1342	1248
	2000	902	822	770	718	668	1258	1146	1073	1002	932	1894	1725	1616	1508	1403
2200	1002	913	854	798	742	1397	1272	1191	1112	1034	2103	1916	1794	1674	1557	
2400	1101	1003	939	877	815	1536	1399	1310	1222	1137	2312	2106	1972	1840	1712	
2600	1201	1094	1024	956	889	1674	1525	1428	1333	1240	2520	2296	2150	2006	1866	
LPHW 75/65 °C	600	254	235	222	209	197	355	327	310	292	275	534	493	466	440	414
	700	316	291	276	260	245	440	406	384	362	341	663	612	578	546	513
	800	377	348	329	310	292	526	485	459	433	407	791	730	691	651	613
	900	438	405	383	361	340	611	564	533	503	473	920	849	803	757	713
	1000	500	461	436	411	387	697	643	608	574	540	1049	968	915	863	812
	1100	561	518	490	462	435	782	722	683	644	606	1178	1087	1028	969	912
	1200	622	574	543	512	482	868	801	757	714	672	1306	1206	1140	1075	1012
	1400	745	688	650	613	577	1039	959	906	855	805	1564	1443	1364	1287	1211
	1600	868	801	757	714	672	1210	1116	1056	996	937	1821	1681	1589	1499	1410
	1800	990	914	864	815	767	1381	1274	1205	1136	1069	2078	1918	1814	1711	1610
	2000	1113	1027	971	916	862	1552	1432	1354	1277	1202	2336	2156	2038	1923	1809
2200	1235	1140	1078	1017	957	1723	1590	1503	1418	1334	2593	2393	2263	2135	2008	
2400	1358	1253	1185	1118	1052	1894	1748	1652	1559	1467	2851	2631	2487	2346	2208	
2600	1481	1367	1292	1219	1147	2065	1906	1802	1699	1599	3108	2868	2712	2558	2407	
LPHW 82/71 °C	600	299	278	264	251	238	416	388	369	350	332	627	583	555	527	500
	700	370	345	328	312	295	517	481	458	435	412	778	724	689	654	620
	800	442	412	392	372	353	617	574	546	519	492	929	864	823	781	741
	900	514	479	456	433	410	717	668	635	603	572	1080	1005	956	908	861
	1000	586	546	519	493	468	817	761	724	688	652	1231	1146	1090	1035	981
	1100	658	613	583	554	525	918	854	813	773	732	1382	1286	1224	1162	1102
	1200	730	680	647	614	582	1018	948	902	856	812	1533	1427	1358	1289	1222
	1400	874	814	774	735	697	1219	1135	1079	1025	972	1835	1708	1625	1543	1463
	1600	1018	948	902	856	812	1419	1321	1257	1195	1132	2136	1989	1893	1797	1704
	1800	1162	1082	1029	977	926	1620	1508	1435	1363	1292	2438	2270	2160	2052	1945
	2000	1306	1215	1156	1098	1041	1820	1695	1613	1532	1452	2740	2551	2427	2306	2186
2200	1449	1349	1284	1219	1156	2021	1882	1790	1700	1612	3042	2832	2695	2560	2426	
2400	1593	1483	1411	1340	1271	2222	2068	1968	1869	1772	3344	3114	2962	2814	2667	
2600	1737	1617	1539	1461	1385	2422	2255	2146	2038	1932	3646	3395	3230	3068	2908	

Technical data
PowerKon + F

* Insert figures to complete type no.:
 6th figure: 1 = with brackets for finished floor
 2 = with brackets for unfinished floor
 3 = with wall brackets
 7th + 8th figure: casing length in dm, e.g. 06 = casing length 600 mm

Article no. for DataNorm/EDV entry: 126 0 __ (insert type)



Heat outputs with casing height 130 mm

Casing height	mm	130														
Type		91313_ _ _					91318_ _ _					91323_ _ _				
Casing depth	mm	130					180					230				
Convector height	mm	100					100					100				
Convector depth	mm	100					150					200				
Connection 1/2"		1/2", same end														
Water temp.	Casing length L [mm]	Heat output in watts at a room temperature t _r [°C] of														
		15	18	20	22	24	15	18	20	22	24	15	18	20	22	24
LPWW 55/45 °C	600	188	165	151	137	123	277	244	222	201	181	379	334	304	276	248
	700	233	205	187	169	152	344	303	276	250	225	471	414	378	342	308
	800	278	245	223	202	182	411	361	329	298	268	562	494	451	409	367
	900	324	285	260	235	212	477	420	383	347	312	653	575	524	475	427
	1000	369	325	296	268	241	544	479	437	396	356	745	655	597	541	487
	1100	414	364	332	301	271	611	537	490	444	399	836	736	671	608	547
	1200	460	404	369	334	300	678	596	544	493	443	928	816	744	674	606
	1400	550	484	441	400	360	811	714	651	590	530	1110	977	891	807	726
	1600	641	564	514	466	419	945	831	758	687	618	1293	1138	1037	940	845
	1800	731	643	587	531	478	1078	949	865	784	705	1476	1298	1184	1073	965
	2000	822	723	659	597	537	1212	1066	972	881	792	1659	1459	1331	1206	1084
2200	912	803	732	663	596	1345	1184	1079	978	880	1842	1620	1477	1338	1204	
2400	1003	882	804	729	656	1479	1301	1186	1075	967	2024	1781	1624	1471	1323	
2600	1093	962	877	795	715	1613	1419	1294	1172	1054	2207	1942	1770	1604	1443	
LPHW 70/55 °C	600	291	265	248	232	215	429	391	366	341	318	587	535	501	467	435
	700	361	329	308	287	267	532	485	454	424	394	728	664	621	580	539
	800	431	393	368	343	319	636	579	542	506	471	870	792	742	693	644
	900	501	456	427	399	371	739	673	630	588	547	1011	921	863	805	749
	1000	571	520	487	455	423	842	767	718	670	624	1153	1050	983	918	854
	1100	641	584	547	510	475	946	861	806	753	700	1294	1179	1104	1030	958
	1200	711	648	607	566	527	1049	955	895	835	777	1436	1308	1224	1143	1063
	1400	851	775	726	678	630	1256	1144	1071	1000	930	1718	1565	1466	1368	1273
	1600	991	903	846	789	734	1462	1332	1247	1164	1083	2001	1823	1707	1593	1482
	1800	1132	1031	965	901	838	1669	1520	1423	1329	1236	2284	2081	1948	1819	1691
	2000	1272	1158	1085	1012	942	1876	1708	1600	1493	1389	2567	2338	2190	2044	1901
2200	1412	1286	1204	1124	1046	2082	1897	1776	1658	1542	2850	2596	2431	2269	2110	
2400	1552	1414	1324	1236	1149	2289	2085	1952	1822	1695	3133	2854	2672	2494	2320	
2600	1692	1541	1443	1347	1253	2496	2273	2129	1987	1848	3416	3111	2913	2719	2529	
LPWW 75/65 °C	600	359	331	313	295	278	529	488	461	435	410	724	668	632	596	561
	700	445	411	388	366	345	656	606	573	540	508	898	829	784	739	696
	800	531	490	464	437	412	784	723	684	645	607	1073	990	936	883	831
	900	618	570	539	509	479	911	841	795	750	706	1247	1151	1088	1027	966
	1000	704	650	615	580	545	1039	959	906	855	804	1422	1312	1240	1170	1101
	1100	791	730	690	651	612	1166	1076	1017	960	903	1596	1473	1393	1314	1236
	1200	877	809	765	722	679	1293	1194	1129	1065	1002	1770	1634	1545	1457	1371
	1400	1050	969	916	864	813	1548	1429	1351	1274	1199	2119	1956	1849	1744	1641
	1600	1223	1128	1067	1006	947	1803	1664	1573	1484	1397	2468	2278	2154	2032	1912
	1800	1396	1288	1218	1149	1081	2058	1899	1796	1694	1594	2817	2600	2458	2319	2182
	2000	1568	1447	1369	1291	1215	2313	2135	2018	1904	1791	3166	2922	2762	2606	2452
2200	1741	1607	1519	1433	1349	2568	2370	2241	2114	1989	3515	3244	3067	2893	2722	
2400	1914	1766	1670	1575	1482	2823	2605	2463	2323	2186	3863	3566	3371	3180	2992	
2600	2087	1926	1821	1718	1616	3078	2840	2685	2533	2384	4212	3888	3676	3467	3262	
LPWW 82/71 °C	600	421	392	373	354	336	620	578	550	522	495	849	791	752	714	677
	700	522	486	462	439	416	770	717	682	648	614	1054	981	934	887	840
	800	623	580	552	525	497	919	856	814	774	733	1259	1172	1115	1059	1004
	900	725	675	642	610	578	1069	995	947	899	853	1463	1362	1296	1231	1167
	1000	826	769	732	695	659	1319	1134	1079	1025	972	1668	1553	1477	1403	1330
	1100	928	864	822	780	740	1368	1274	1212	1151	1091	1872	1743	1659	1575	1493
	1200	1029	958	911	866	821	1518	1413	1344	1277	1210	2077	1934	1840	1747	1656
	1400	1232	1147	1091	1036	982	1817	1691	1609	1528	1449	2486	2315	2202	2092	1983
	1600	1434	1335	1271	1207	1144	2116	1970	1874	1780	1687	2896	2696	2565	2436	2309
	1800	1637	1524	1450	1377	1306	2415	2248	2139	2031	1926	3305	3077	2927	2780	2636
	2000	1840	1713	1630	1548	1467	2714	2526	2404	2283	2164	3714	3458	3290	3125	2962
2200	2043	1902	1809	1719	1629	3013	2805	2669	2535	2403	4123	3839	3653	3469	3288	
2400	2245	2091	1989	1889	1791	3312	3083	2933	2786	2641	4533	4220	4015	3813	3615	
2600	2448	2279	2169	2060	1952	3611	3361	3198	3038	2880	4942	4601	4378	4158	3941	

Technical data
PowerKon + F

*Insert figures to complete type no.:
 6th figure: 1 = with brackets for finished floor
 2 = with brackets for unfinished floor
 3 = with wall brackets
 7th + 8th figure: casing length in dm, e.g. 06 = casing length 600 mm

Article no. for DataNorm/EDV entry: 126 0 _ _ (Insert type)



Wall-mounted encased models with PowerKon heat exchangers

Qty.	Article no.	Description	Price / each	Total price
pc.	126 0 6 25 07 1 06	<p>PowerKon + W Wall-mounted convectors Wall convectors for wall-mounting with PowerKon copper/aluminium heat exchanger, supplied in standard lengths; all parts are easy to dismantle with the Kampmann "quick-fit" system, without the need for screws, consisting of:</p> <p>PowerKon heat exchanger consisting of copper hollow pipes with corrugated aluminium fins, coated, for greater surface area and maximum heat output; suitable for maximum continuous operating pressure of 10 bar and 120 °C; connection: 1/2" same end</p> <p>Wall-mounted casing made of sheet steel with long-lasting corrosion protection due to phosphating finish; supplied as a single-section convector casing with front and side panels and air outlet, either as a perforated profile or as a C-profile linear grille, angled towards the room; casing powdercoated in RAL 9016, traffic white, with easy-to-clean high-gloss finish; heat output tested in line with DIN EN 442, DIN CERTCO registered and monitored under registration no. 6R 1168</p> <p>Wall-mounted casing lengths 06 600 mm 07 700 mm 08 800 mm 09 900 mm 10 1000 mm 11 1100 mm 12 1200 mm 14 1400 mm 16 1600 mm 18 1800 mm 20 2000 mm 22 2200 mm 24 2400 mm 26 2600 mm (not wall-mounted casing depth 220 mm)</p> <p>Convector height 1 100 mm</p> <p>Wall-mounted casing depth 07 70 mm 12 120 mm 17 170 mm 22 220 mm</p> <p>Wall-mounted casing height 25 250 mm 40 400 mm 55 550 mm 70 700 mm</p> <p>Air outlet 6 Linear grille with C-profile 7 Perforated profile</p> <p>Technical data: Water temp. LPHW _____ / _____ °C Room air temperature _____ °C Heat output _____ w Article group 1.26, Manufacturer Kampmann, Article no. 126 0 _____, type _____</p>	other RAL colours on request	
pc.	194 0 0 0 126 102	<p>Convector fittings set consisting of: 1/2" thermostatic valve body (axial) and 1/2" return shut-off valve (straight), Article group 1.94, Manufacturer Kampmann, Article no. 194000126102, type 126102</p>		
pc.	194 0 0 0 110 210	<p>Thermostatic valve head white Article group 1.94, Manufacturer Kampmann, Article no. 194000110210, type 110210</p>		
	required to complete DataNorm/EDV article no.			

Specification/
Ordering

Free-standing encased models with PowerKon heat exchangers

Qty.	Article no.	Description	Price / each	Total price
pc.	126 0 9 08 13 1 06	<p>PowerKon + F Free-standing encased convectors with PowerKon copper/aluminium heat exchanger, supplied in standard lengths; casing powdercoated RAL 9016 traffic white; all parts are easy to dismantle, consisting of:</p> <p>PowerKon heat exchanger consisting of copper hollow pipes with corrugated aluminium fins, coated, for greater surface area and maximum heat output; suitable for maximum continuous operating pressure of 10 bar and 120 °C; connection: 1/2" same end</p> <p>Free-standing casing made of sheet steel with long-lasting corrosion protection due to phosphating finish; with front and side panels and air outlet, in the shape of a linear grille with flow-enhancing profile, a side panel with valve opening, easy-to-clean, high-gloss finish; heat outputs tested in line with DIN EN 442.</p> <p>Casing lengths 06 600 mm 07 700 mm 08 800 mm 09 900 mm 10 1000 mm 11 1100 mm 12 1200 mm 14 1400 mm 16 1600 mm 18 1800 mm 20 2000 mm 22 2200 mm 24 2400 mm 26 2600 mm</p> <p>Brackets 1 for finished floor 2 for unfinished floor 3 for wall mounting</p> <p>Casing depth 13 130 mm 18 180 mm 23 230 mm</p> <p>Casing height 08 80 mm 13 130 mm</p> <p>Article group 1.26, Manufacturer Kampmann, Article no.: 12609 _____, type 9 _____</p>	other RAL colours on request	
pc.	194 0 0 0 126 102	<p>Convector fittings set consisting of: 1/2" thermostatic valve body (axial) and 1/2" return shut-off valve (straight), Article group 1.94, Manufacturer Kampmann, Article no. 194000126102, type 126102</p>		
pc.	194 0 0 0 110 210	<p>Thermostatic valve head white Article group 1.94, Manufacturer Kampmann, Article no. 194000110210, type 110210</p>		
	required to complete DataNorm/EDV article no.			

Specifications / Ordering

126 0 1

Art. group
1.26 PowerKon + W
wall-mounted
convectors

Convector height
100 mm

Wall casing depth
07 = 70 mm
12 = 120 mm
17 = 170 mm
22 = 220 mm

Wall casing height
25 = 250 mm
40 = 400 mm
55 = 550 mm
70 = 700 mm

Air outlet
6 Linear grille with C-profile
7 Perforated profile

Article no.
PowerKon + W
wall-mounted
encased convectors

Wall-mounted casing length
06 = 600 mm
07 = 700 mm
08 = 800 mm
09 = 900 mm
10 = 1000 mm
11 = 1100 mm
12 = 1200 mm
14 = 1400 mm
18 = 1800 mm
20 = 2000 mm
22 = 2200 mm
24 = 2400 mm
26 = 2600 mm
(not wall-mounted casing depth 220 mm)

126 0 9

Art. group
1.26 PowerKon + F
free-standing
convectors

Casing length
06 = 600 mm
07 = 700 mm
08 = 800 mm
09 = 900 mm
10 = 1000 mm
11 = 1100 mm
12 = 1200 mm
14 = 1400 mm
16 = 1600 mm
18 = 1800 mm
20 = 2000 mm
22 = 2200 mm
24 = 2400 mm
26 = 2600 mm

with brackets for
1 Finished floor
2 Unfinished floor
3 Wall mounting

Casing depth
13 = 130 mm
18 = 180 mm
23 = 230 mm

Casing height
08 = 80 mm
13 = 130 mm

Article no.
PowerKon + F
free-standing
encased convectors

Please state article nos. when ordering!

Pos.	Qty.	Article no.	Description	Price (see HKL Pricelist)
1		-----		
2		-----		
3		-----		
4		-----		
5		-----		
6		-----		
7		-----		
8		-----		
9		-----		
10		-----		
11		-----		
12		-----		
13		-----		
14		-----		

Specification/
Ordering

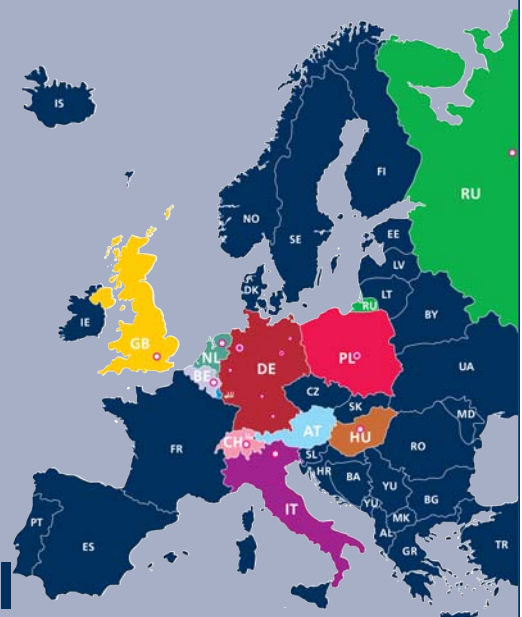
National

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International

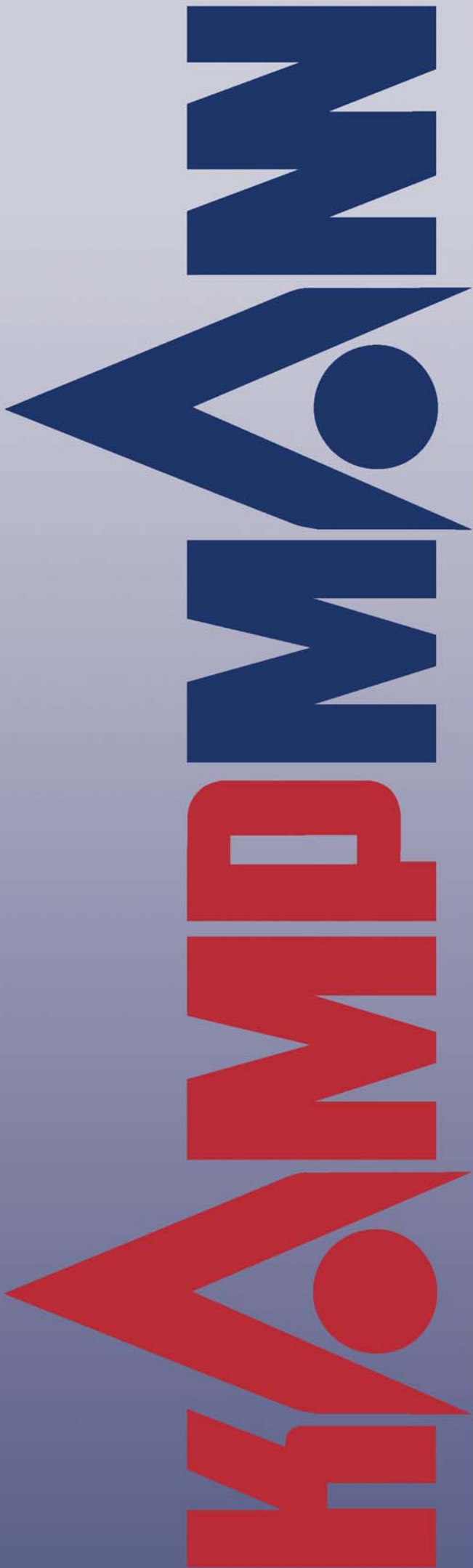


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RAL 9006 white aluminium, powdercoated to match the facade



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