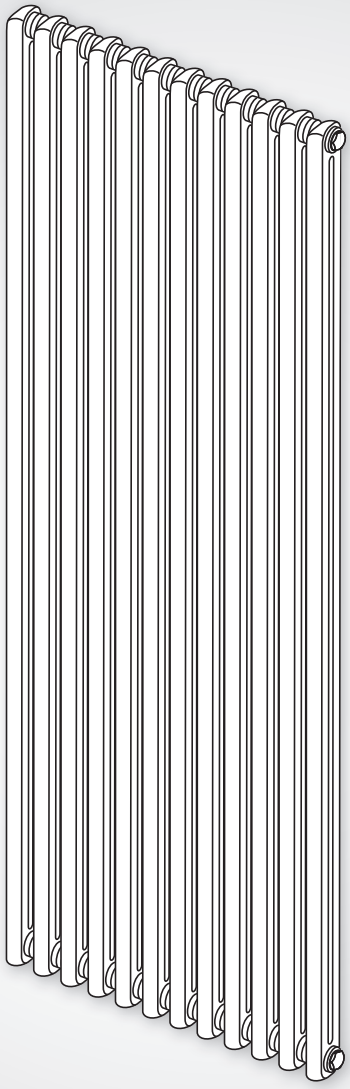
zehnder
always the best climate

Zehnder Charleston

Technical Brochure



ALWAYS THE BEST CLIMATE

“We strive to improve the quality of life by providing the finest indoor climate solutions.”

Excellent team
Every day we combine passion, expert knowledge and commitment to give you the best results.

Great solutions, products and services
Great products and unique service for an energy-efficient, healthy and comfortable indoor climate.

WE ARE THE SPECIALISTS FOR A HEALTHY, COMFORTABLE AND ENERGY-EFFICIENT

The broad and clearly structured portfolio from the Zehnder Group is split into four product lines. Consequently, we can provide our customers with the right product, perfect system and matching service for all types of projects – from new build to renovations, single or multi-occupancy homes, as well as commercial projects. This variety ensures that our wealth of experience is continuously expanding, providing tangible added value to our customers on a daily basis.

Decorative radiators
Our individual decorative radiators for living and bathrooms make a home not only warmer but also more attractive. Created by renowned designers, they impress with excellent functionality.

OUR BRANDS EMBRACE INNOVATION, QUALITY AND DESIGN

zehnder

The Zehnder brand offers excellent indoor climate solutions within the product lines of decorative radiators, comfortable indoor ventilation, heating and cooling ceiling systems and clean air solutions.

BISQUE

The Bisque brand offers beautiful but practical radiators in the most exciting styles, colours and shapes for homes and more.

First choice for customers
Always close to the needs of our customers, to grow with you and overcome all challenges together.

INNOVATION OVER 4 GENERATIONS

MANUFACTURER OF THE WORLD'S **1st** STEEL AND BATHROOM RADIATOR

REPRESENTED IN MORE THAN **70** COUNTRIES

AROUND **3,000** EMPLOYEES

14 OF OUR OWN PRODUCTION PLANTS IN EUROPE, NORTH AMERICA AND CHINA

INNOVATION SINCE **1895**

830 PATENTS AND DESIGN RIGHTS THROUGHOUT THE WORLD

MORE THAN **20,000** CUSTOMER TRAINING SESSIONS PER YEAR

INDOOR CLIMATE

Comfortable indoor ventilation
Our comfortable indoor ventilation is energy-efficient and provides a healthy indoor climate. It promotes the wellbeing of the occupants and increases the value of the property.

Heating and cooling ceiling systems
Zehnder ceiling systems are convenient and energy-efficient for heating and cooling. They are perfectly attuned to the relevant environment.

Clean air solutions
Clean air systems from Zehnder reduce the level of dust in the air, create a healthier working environment and reduce the amount of cleaning required.

Greenwood AIRVAC

The Greenwood Airvac brand offers a range of low energy, smart residential ventilation solutions from intermittent extract fans to whole house ventilation with heat recovery.

BEST QUALITY CERTIFICATES

Zehnder Group products are frequently awarded prizes for design and innovative technology.

iF DESIGN AWARD 2016

reddot award 2016 best of the best

zehnder *charleston* range

	Product description	Overview of models	Outputs	Technical specifications	Special versions	Connections	Foot support options	Fixings	Installation points	Colours
zehnder *charleston*										
■ Classic tube radiator ■ Element length 46 mm ■ Flexible connection options	4	6	10	52	62	64	67	68	72	74
zehnder *charleston clinic*										
■ Element length 65 mm ■ Larger element spacings ■ Particularly easy to clean	4	7	31	57	62	64	67	70	72	74

zehnder *charleston* range

Zehnder Charleston

Zehnder Charleston clinic

Completto version

Product description

Zehnder Charleston – the original multicolumn radiator.

Combining timeless elegance with substantial heat outputs, the Zehnder Charleston is suitable for both traditional and modern applications. Built to the highest quality, the radiators can be angled or curved to successfully meet the requirements of the most complex installation. Due to the sectional feature of the radiator, the Zehnder Charleston is perfect for refurbishment projects.

The current product family includes the Zehnder Charleston as well as the particularly easy-to-clean version Zehnder Charleston clinic with wider element spacing. In addition, both models are available as a Completto version which encompasses an integrated valve.

Technical specifications

- Steel round tubes Ø 25 mm
- Wall thickness 1.5mm header tube and 1.25mm column tube
- High quality steel with precision welding
- Choice of 2, 3, 4, 5 or 6 column sections
- Length of the individual elements 46 mm
- Durable finsih in RAL 9016 as standard
- Thermal output tested to EN 442, with CE marking
- Operating overpressure max. 10 bar
- Max. operating temperature 120°C

Benefits

- Classical, elegant profile
- Robust product
- Cleaning with Zehnder lambswool cleaning brush
- Simple and secure: Assembly with Zehnder EasyFix
- Can be integrated into any building design
- Substantial heat outputs
- Energy-efficient for use in low-temperature systems

Customisation options

- Large choice of connection types
- Integrated valve (Completto version)
- Mounting sets for all applications
- Special colours and antimicrobial coating available
- Galvanised and painted version
- Energy-saving thermal radiation shield for installation in front of windows
- Special shapes: angled or curved, with handrail, etc.
- High-pressure version up to max. 18 bar (not suitable for Completto version)

Equipment for standard versions

- Primed and painted in RAL 9016
- Connection 4 x ½" female thread
- 1 blind plug ½"
- Heights greater than 2200 mm with stabilisation strut welded at the factory
- Complete packaging in stretch film and carton

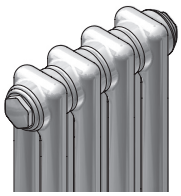
Equipment for Completto version

- Primed and painted in RAL 9016
- Valve unit integrated on side, with valve insert AV 6, max. flow rate 250 kg/h
- Connection 2 x ½" female thread from bottom 50 mm
- Integrated baffle
- 1 air vent ½"
- Complete packaging in stretch film and carton

BIM components for the Zehnder Charleston and Zehnder Charleston clinic are available to download from www.zehnder.co.uk/service/bim-components

zehnder *charleston*

Zehnder Charleston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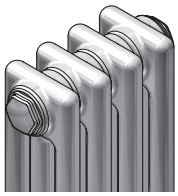
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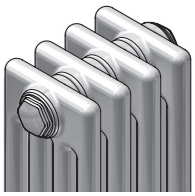
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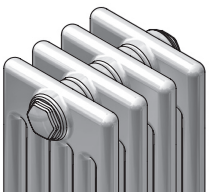
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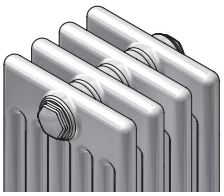
6-column

Height [1] mm	Depth mm				
	62	100	136	173	210
190	2019	3019	4019	5019	6019
260	2026	3026	4026	5026	6026
300	2030	3030	4030	5030	6030
350	2035	3035	4035	5035	6035
400	2040	3040	4040	5040	6040
450	2045	3045	4045	5045	6045
500	2050	3050	4050	5050	6050
550	2055	3055	4055	5055	6055
600	2060	3060	4060	5060	6060
750	2075	3075	4075	5075	6075
900	2090	3090	4090	5090	6090
1000	2100	3100	4100	5100	6100
1100	2110	3110	4110	5110	6110
1200	2120	3120	4120	5120	6120
1500	2150	3150	4150	5150	6150
1800	2180	3180	4180	5180	6180
2000	2200	3200	4200	5200	6200
2200	2220	3220	4220	5220	6220
2500	2250	3250	4250	5250	6250
2800	2280	3280	4280	5280	6280
3000	2300	3300	4300	5300	6300

[1] The overall heights and lengths do not always correspond exactly to the dimensions in the catalogue. Such differences are unavoidable, due to the manufacturing method used. An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

Maximum radiator lengths (shown in number of sections) supplied in one piece[2]:

Zehnder Charleston

Model	Height mm							
	190	260 - 600	> 600 - 750	> 750 - 900	> 900 - 1000	> 1000 - 2000	> 2000 - 2500	> 2500 - 3000
2-, 3-column	60	64	64	64	64	22	22	22
4-column	60	64	64	64	60	22	22	22
5-column	60	64	64	50	50	22	22	17
6-column	60	64	55	46	42	22*	17	14

[2] Longer radiator lengths supplied in separate pieces
*For completto version, 21

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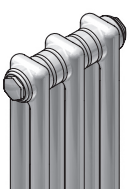
BIM components for the Zehnder Charleston, including the Completto version are available to download from www.zehnder.co.uk/service/bim-components

zehnder *charleston clinic*

Zehnder Charleston clinic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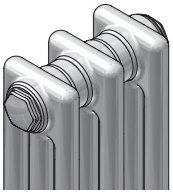
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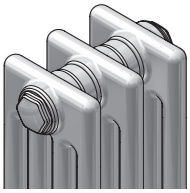
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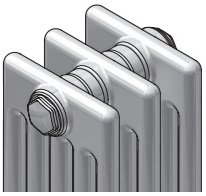
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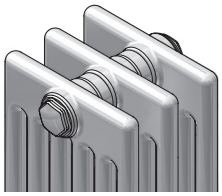
6-column

Height [1] mm	Depth mm				
	62	100	136	173	210
190	K2019	K3019	K4019	K5019	K6019
260	K2026	K3026	K4026	K5026	K6026
300	K2030	K3030	K4030	K5030	K6030
350	K2035	K3035	K4035	K5035	K6035
400	K2040	K3040	K4040	K5040	K6040
450	K2045	K3045	K4045	K5045	K6045
500	K2050	K3050	K4050	K5050	K6050
550	K2055	K3055	K4055	K5055	K6055
600	K2060	K3060	K4060	K5060	K6060
750	K2075	K3075	K4075	K5075	K6075
900	K2090	K3090	K4090	K5090	K6090
1000	K2100	K3100	K4100	K5100	K6100
1100	K2110	K3110	K4110	K5110	K6110
1200	K2120	K3120	K4120	K5120	K6120
1500	K2150	K3150	K4150	K5150	K6150
1800	K2180	K3180	K4180	K5180	K6180
2000	K2200	K3200	K4200	K5200	K6200
2200	K2220	K3220	K4220	K5220	K6220
2500	K2250	K3250	K4250	K5250	K6250
2800	K2280	K3280	K4280	K5280	K6280
3000	K2300	K3300	K4300	K5300	K6300

[1] The overall heights and lengths do not always correspond exactly to the dimensions in the catalogue. Such differences are unavoidable, due to the manufacturing method used. An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

Maximum radiator lengths (shown in number of sections) supplied in one piece[2]:

Zehnder Charleston clinic

Model	Height mm		
	190 - 900	> 900 - 2500	> 2500 - 3000
2-, 3-column	44	16	16
4-, 5-column	44	16	16
6-column	44	16	14

[2] Longer radiator lengths supplied in separate pieces

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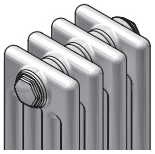
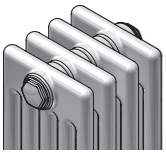
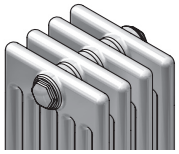
BIM components for the Zehnder Charleston clinic are available to download from www.zehnder.co.uk/service/bim-components

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	190									
										
Model	**2019**		**3019**		**4019**		**5019**		**6019**	
Depth mm	62		100		136		173		210	
Exponent n	1,26		1,27		1,26		1,25		1,27	
Max. number of elements	60		60		60		60		60	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 184	58	30	81	42	114	59	140	73	166	86
5 / 230	73	38	101	52	142	74	175	92	208	108
6 / 276	87	45	121	63	171	89	210	110	249	129
7 / 322	102	53	141	73	199	104	245	128	291	151
8 / 368	116	60	161	83	228	118	280	147	332	172
9 / 414	131	68	181	94	256	133	315	165	374	194
10 / 460	145	76	201	104	284	148	350	183	415	215
11 / 506	160	83	222	115	313	163	385	202	457	237
12 / 552	174	91	242	125	341	178	420	220	498	258
13 / 598	189	98	262	136	370	193	455	238	540	280
14 / 644	203	106	282	146	398	207	490	257	581	301
15 / 690	218	113	302	156	426	222	525	275	623	323
16 / 736	232	121	322	167	455	237	560	294	664	344
17 / 782	247	129	342	177	483	252	595	312	706	366
18 / 828	261	136	362	188	512	267	630	330	747	388
19 / 874	276	144	382	198	540	281	665	349	789	409
20 / 920	290	151	402	209	568	296	700	367	830	431
21 / 966	305	159	423	219	597	311	735	385	872	452
22 / 1012	319	166	443	229	625	326	770	404	913	474
23 / 1058	334	174	463	240	654	341	805	422	955	495
24 / 1104	348	181	483	250	682	355	840	440	996	517
25 / 1150	363	189	503	261	710	370	875	459	1038	538
26 / 1196	377	197	523	271	739	385	910	477	1079	560
27 / 1242	392	204	543	282	767	400	945	495	1121	581
28 / 1288	406	212	563	292	796	415	980	514	1162	603
29 / 1334	421	219	583	302	824	429	1015	532	1204	624
30 / 1380	435	227	603	313	852	444	1050	550	1245	646
31 / 1426	450	234	624	323	881	459	1085	569	1287	667
32 / 1472	464	242	644	334	909	474	1120	587	1328	689
33 / 1518	479	250	664	344	938	489	1155	605	1370	710
34 / 1564	493	257	684	355	966	504	1190	624	1411	732
35 / 1610	508	265	704	365	994	518	1225	642	1453	753
36 / 1656	522	272	724	375	1023	533	1260	660	1494	775
37 / 1702	537	280	744	386	1051	548	1295	679	1536	797
38 / 1748	551	287	764	396	1080	563	1330	697	1577	818
39 / 1794	566	295	784	407	1108	578	1365	715	1619	840
40 / 1840	580	302	804	417	1136	592	1400	734	1660	861

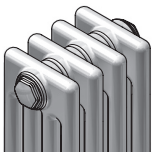
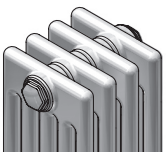
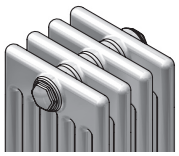
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	260									
										
Model	**2026**		**3026**		**4026**		**5026**		**6026**	
Depth mm	62		100		136		173		210	
Exponent n	1,25		1,25		1,25		1,25		1,27	
Max. number of elements	64		64		64		64		64	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 184	85	44	112	58	146	77	181	95	216	111
5 / 230	106	55	140	73	183	96	226	118	270	139
6 / 276	127	66	168	88	219	115	271	142	324	167
7 / 322	148	77	196	102	256	134	316	165	378	194
8 / 368	169	88	224	117	292	153	361	189	432	222
9 / 414	190	100	252	132	329	172	406	213	486	250
10 / 460	211	111	279	146	365	191	451	236	540	278
11 / 506	233	122	307	161	402	210	497	260	594	305
12 / 552	254	133	335	175	438	230	542	284	648	333
13 / 598	275	144	363	190	475	249	587	307	702	361
14 / 644	296	155	391	205	511	268	632	331	756	389
15 / 690	317	166	419	219	548	287	677	355	810	416
16 / 736	338	177	447	234	584	306	722	378	864	444
17 / 782	359	188	475	249	621	325	767	402	918	472
18 / 828	380	199	503	263	657	344	812	425	972	500
19 / 874	401	210	531	278	694	363	857	449	1026	527
20 / 920	422	221	558	292	730	383	902	473	1080	555
21 / 966	444	232	586	307	767	402	948	496	1134	583
22 / 1012	465	243	614	322	803	421	993	520	1188	611
23 / 1058	486	254	642	336	840	440	1038	544	1242	638
24 / 1104	507	265	670	351	876	459	1083	567	1296	666
25 / 1150	528	276	698	366	913	478	1128	591	1350	694
26 / 1196	549	288	726	380	949	497	1173	615	1404	722
27 / 1242	570	299	754	395	986	517	1218	638	1458	749
28 / 1288	591	310	782	409	1022	536	1263	662	1512	777
29 / 1334	612	321	810	424	1059	555	1308	686	1566	805
30 / 1380	633	332	837	439	1095	574	1353	709	1620	833
31 / 1426	655	343	865	453	1132	593	1399	733	1674	860
32 / 1472	676	354	893	468	1168	612	1444	756	1728	888
33 / 1518	697	365	921	483	1205	631	1489	780	1782	916
34 / 1564	718	376	949	497	1241	650	1534	804	1836	944
35 / 1610	739	387	977	512	1278	670	1579	827	1890	971
36 / 1656	760	398	1005	526	1314	689	1624	851	1944	999
37 / 1702	781	409	1033	541	1351	708	1669	875	1998	1027
38 / 1748	802	420	1061	556	1387	727	1714	898	2052	1055
39 / 1794	823	431	1089	570	1424	746	1759	922	2106	1082
40 / 1840	844	442	1116	585	1460	765	1804	946	2160	1110

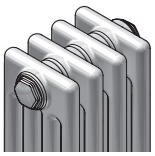
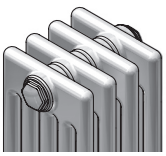
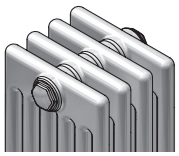
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		300									
											
Model		**2030**		**3030**		**4030**		**5030**		**6030**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,24		1,25		1,25		1,25		1,26	
Max. number of elements		64		64		64		64		64	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	95	50	128	67	168	88	207	108	246	128
5	230	118	62	160	84	210	110	259	135	307	160
6	276	142	75	192	101	252	132	311	163	368	192
7	322	166	87	224	117	294	154	362	190	430	224
8	368	189	99	256	134	336	176	414	217	491	256
9	414	213	112	288	151	378	198	466	244	552	288
10	460	236	124	320	168	419	220	517	271	613	320
11	506	260	137	352	184	461	242	569	298	675	352
12	552	284	149	384	201	503	264	621	325	736	384
13	598	307	162	416	218	545	286	673	352	797	416
14	644	331	174	448	235	587	307	724	379	859	448
15	690	354	187	480	252	629	329	776	406	920	479
16	736	378	199	512	268	671	351	828	434	981	511
17	782	402	211	544	285	713	373	879	461	1043	543
18	828	425	224	576	302	755	395	931	488	1104	575
19	874	449	236	608	319	797	417	983	515	1165	607
20	920	472	249	640	335	838	439	1034	542	1226	639
21	966	496	261	672	352	880	461	1086	569	1288	671
22	1012	520	274	704	369	922	483	1138	596	1349	703
23	1058	543	286	736	386	964	505	1190	623	1410	735
24	1104	567	298	768	403	1006	527	1241	650	1472	767
25	1150	590	311	800	419	1048	549	1293	677	1533	799
26	1196	614	323	832	436	1090	571	1345	705	1594	831
27	1242	638	336	864	453	1132	593	1396	732	1656	863
28	1288	661	348	896	470	1174	615	1448	759	1717	895
29	1334	685	361	928	486	1216	637	1500	786	1778	927
30	1380	708	373	960	503	1257	659	1551	813	1839	959
31	1426	732	385	992	520	1299	681	1603	840	1901	991
32	1472	756	398	1024	537	1341	703	1655	867	1962	1023
33	1518	779	410	1056	553	1383	725	1707	894	2023	1055
34	1564	803	423	1088	570	1425	747	1758	921	2085	1087
35	1610	826	435	1120	587	1467	769	1810	948	2146	1119
36	1656	850	448	1152	604	1509	791	1862	976	2207	1151
37	1702	874	460	1184	621	1551	813	1913	1003	2269	1183
38	1748	897	472	1216	637	1593	835	1965	1030	2330	1215
39	1794	921	485	1248	654	1635	857	2017	1057	2391	1247
40	1840	944	497	1280	671	1676	878	2068	1084	2452	1279

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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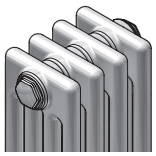
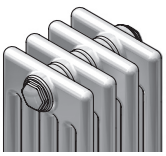
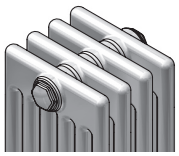
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		350									
											
Model		**2035**		**3035**		**4035**		**5035**		**6035**	
Depth mm		62		100		136		173		210	
Exponent n		1,24		1,25		1,25		1,26		1,26	
Max. number of elements		64		64		64		64		64	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	110	58	148	78	194	102	240	125	284	148
5	230	138	72	185	97	243	127	300	156	355	185
6	276	165	87	222	116	291	153	360	187	426	222
7	322	193	101	259	136	340	178	420	219	497	259
8	368	220	116	296	155	388	203	480	250	568	296
9	414	248	130	333	175	437	229	540	281	639	333
10	460	275	145	370	194	485	254	599	312	710	370
11	506	303	159	407	213	534	280	659	344	781	407
12	552	330	174	444	233	582	305	719	375	852	444
13	598	358	188	481	252	631	330	779	406	923	481
14	644	385	203	518	272	679	356	839	437	994	518
15	690	413	217	555	291	728	381	899	469	1065	555
16	736	440	232	592	310	776	407	959	500	1136	592
17	782	468	246	629	330	825	432	1019	531	1207	629
18	828	495	261	666	349	873	458	1079	562	1278	666
19	874	523	275	703	368	922	483	1139	593	1349	703
20	920	550	290	740	388	970	508	1198	625	1420	740
21	966	578	304	777	407	1019	534	1258	656	1491	777
22	1012	605	319	814	427	1067	559	1318	687	1562	814
23	1058	633	333	851	446	1116	585	1378	718	1633	852
24	1104	660	348	888	465	1164	610	1438	750	1704	889
25	1150	688	362	925	485	1213	636	1498	781	1775	926
26	1196	715	377	962	504	1261	661	1558	812	1846	963
27	1242	743	391	999	524	1310	686	1618	843	1917	1000
28	1288	770	406	1036	543	1358	712	1678	875	1988	1037
29	1334	798	420	1073	562	1407	737	1738	906	2059	1074
30	1380	825	435	1110	582	1455	763	1797	937	2130	1111
31	1426	853	449	1147	601	1504	788	1857	968	2201	1148
32	1472	880	464	1184	621	1552	813	1917	999	2272	1185
33	1518	908	478	1221	640	1601	839	1977	1031	2343	1222
34	1564	935	493	1258	659	1649	864	2037	1062	2414	1259
35	1610	963	507	1295	679	1698	890	2097	1093	2485	1296
36	1656	990	522	1332	698	1746	915	2157	1124	2556	1333
37	1702	1018	536	1369	718	1795	941	2217	1156	2627	1370
38	1748	1045	551	1406	737	1843	966	2277	1187	2698	1407
39	1794	1073	565	1443	756	1892	991	2337	1218	2769	1444
40	1840	1100	580	1480	776	1940	1017	2396	1249	2840	1481

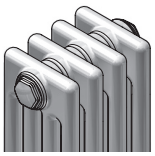
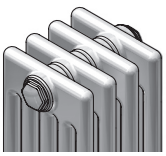
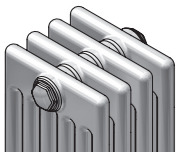
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		400									
											
Model		**2040**		**3040**		**4040**		**5040**		**6040**	
Depth mm		62		100		136		173		210	
Exponent n		1,24		1,25		1,26		1,26		1,27	
Max. number of elements		64		64		64		64		64	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	125	66	168	88	220	115	272	142	322	167
5	230	156	82	210	110	275	143	340	177	403	209
6	276	188	99	252	132	330	172	408	212	483	251
7	322	219	115	294	154	385	200	476	248	564	292
8	368	250	132	336	176	440	229	544	283	644	334
9	414	281	148	378	198	495	258	612	319	725	376
10	460	312	164	419	220	549	286	679	354	805	418
11	506	344	181	461	242	604	315	747	389	886	459
12	552	375	197	503	264	659	344	815	425	966	501
13	598	406	214	545	286	714	372	883	460	1047	543
14	644	437	230	587	307	769	401	951	496	1127	585
15	690	468	247	629	329	824	429	1019	531	1208	626
16	736	500	263	671	351	879	458	1087	566	1288	668
17	782	531	279	713	373	934	487	1155	602	1369	710
18	828	562	296	755	395	989	515	1223	637	1449	752
19	874	593	312	797	417	1044	544	1291	673	1530	793
20	920	624	329	838	439	1098	573	1358	708	1610	835
21	966	656	345	880	461	1153	601	1426	744	1691	877
22	1012	687	362	922	483	1208	630	1494	779	1771	919
23	1058	718	378	964	505	1263	658	1562	814	1852	960
24	1104	749	395	1006	527	1318	687	1630	850	1932	1002
25	1150	780	411	1048	549	1373	716	1698	885	2013	1044
26	1196	812	427	1090	571	1428	744	1766	921	2093	1086
27	1242	843	444	1132	593	1483	773	1834	956	2174	1128
28	1288	874	460	1174	615	1538	802	1902	991	2254	1169
29	1334	905	477	1216	637	1593	830	1970	1027	2335	1211
30	1380	936	493	1257	659	1647	859	2038	1062	2415	1253
31	1426	968	510	1299	681	1702	887	2105	1098	2496	1295
32	1472	999	526	1341	703	1757	916	2173	1133	2576	1336
33	1518	1030	542	1383	725	1812	945	2241	1168	2657	1378
34	1564	1061	559	1425	747	1867	973	2309	1204	2737	1420
35	1610	1092	575	1467	769	1922	1002	2377	1239	2818	1462
36	1656	1124	592	1509	791	1977	1031	2445	1275	2898	1503
37	1702	1155	608	1551	813	2032	1059	2513	1310	2979	1545
38	1748	1186	625	1593	835	2087	1088	2581	1345	3059	1587
39	1794	1217	641	1635	857	2142	1116	2649	1381	3140	1629
40	1840	1248	658	1676	878	2196	1145	2716	1416	3220	1670

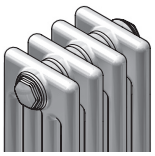
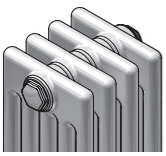
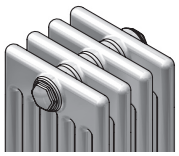
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	450									
										
Model	**2045**		**3045**		**4045**		**5045**		**6045**	
Depth mm	62		100		136		173		210	
Exponent n	1,24		1,25		1,26		1,26		1,27	
Max. number of elements	64		64		64		64		64	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 184	140	74	188	98	246	128	304	158	360	186
5 / 230	175	92	234	123	307	160	379	198	449	233
6 / 276	210	110	281	147	368	192	455	237	539	280
7 / 322	245	129	328	172	430	224	531	277	629	326
8 / 368	280	147	375	196	491	256	607	316	719	373
9 / 414	315	165	422	221	552	288	683	356	809	419
10 / 460	349	184	468	245	613	320	758	395	898	466
11 / 506	384	202	515	270	675	352	834	435	988	512
12 / 552	419	221	562	294	736	384	910	474	1078	559
13 / 598	454	239	609	319	797	416	986	514	1168	606
14 / 644	489	257	656	343	859	448	1062	553	1258	652
15 / 690	524	276	702	368	920	479	1137	593	1347	699
16 / 736	559	294	749	392	981	511	1213	632	1437	745
17 / 782	594	313	796	417	1043	543	1289	672	1527	792
18 / 828	629	331	843	442	1104	575	1365	711	1617	839
19 / 874	664	349	890	466	1165	607	1441	751	1707	885
20 / 920	698	368	936	491	1226	639	1516	791	1796	932
21 / 966	733	386	983	515	1288	671	1592	830	1886	978
22 / 1012	768	405	1030	540	1349	703	1668	870	1976	1025
23 / 1058	803	423	1077	564	1410	735	1744	909	2066	1071
24 / 1104	838	441	1124	589	1472	767	1820	949	2156	1118
25 / 1150	873	460	1170	613	1533	799	1895	988	2245	1165
26 / 1196	908	478	1217	638	1594	831	1971	1028	2335	1211
27 / 1242	943	496	1264	662	1656	863	2047	1067	2425	1258
28 / 1288	978	515	1311	687	1717	895	2123	1107	2515	1304
29 / 1334	1013	533	1358	711	1778	927	2199	1146	2605	1351
30 / 1380	1047	552	1404	736	1839	959	2274	1186	2694	1398
31 / 1426	1082	570	1451	760	1901	991	2350	1225	2784	1444
32 / 1472	1117	588	1498	785	1962	1023	2426	1265	2874	1491
33 / 1518	1152	607	1545	809	2023	1055	2502	1304	2964	1537
34 / 1564	1187	625	1592	834	2085	1087	2578	1344	3054	1584
35 / 1610	1222	644	1638	859	2146	1119	2653	1383	3143	1630
36 / 1656	1257	662	1685	883	2207	1151	2729	1423	3233	1677
37 / 1702	1292	680	1732	908	2269	1183	2805	1462	3323	1724
38 / 1748	1327	699	1779	932	2330	1215	2881	1502	3413	1770
39 / 1794	1362	717	1826	957	2391	1247	2957	1541	3503	1817
40 / 1840	1396	735	1872	981	2452	1279	3032	1581	3592	1863

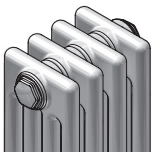
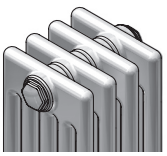
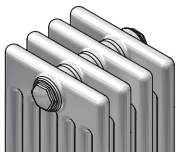
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		500									
											
Model		**2050**		**3050**		**4050**		**5050**		**6050**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,25		1,25		1,26		1,27		1,28	
Max. number of elements		64		64		64		64		64	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	154	81	207	108	271	141	334	173	396	204
5	230	192	101	258	135	338	176	418	217	495	255
6	276	231	121	310	162	406	211	501	260	594	307
7	322	269	141	362	189	474	247	585	303	693	358
8	368	308	161	413	216	541	282	668	347	792	409
9	414	346	181	465	243	609	317	752	390	891	460
10	460	384	201	516	270	676	352	835	433	990	511
11	506	423	221	568	298	744	388	919	476	1089	562
12	552	461	242	620	325	812	423	1002	520	1188	613
13	598	500	262	671	352	879	458	1086	563	1287	664
14	644	538	282	723	379	947	493	1169	606	1386	715
15	690	576	302	774	406	1014	529	1253	650	1485	766
16	736	615	322	826	433	1082	564	1336	693	1584	817
17	782	653	342	878	460	1150	599	1420	736	1683	869
18	828	692	362	929	487	1217	634	1503	780	1782	920
19	874	730	382	981	514	1285	670	1587	823	1881	971
20	920	768	403	1032	541	1352	705	1670	866	1980	1022
21	966	807	423	1084	568	1420	740	1754	910	2079	1073
22	1012	845	443	1136	595	1488	775	1837	953	2178	1124
23	1058	884	463	1187	622	1555	811	1921	996	2277	1175
24	1104	922	483	1239	649	1623	846	2004	1040	2376	1226
25	1150	960	503	1290	676	1690	881	2088	1083	2475	1277
26	1196	999	523	1342	703	1758	916	2171	1126	2574	1328
27	1242	1037	543	1394	730	1826	952	2255	1170	2673	1379
28	1288	1076	564	1445	757	1893	987	2338	1213	2772	1431
29	1334	1114	584	1497	784	1961	1022	2422	1256	2871	1482
30	1380	1152	604	1548	811	2028	1057	2505	1299	2970	1533
31	1426	1191	624	1600	838	2096	1093	2589	1343	3069	1584
32	1472	1229	644	1652	865	2164	1128	2672	1386	3168	1635
33	1518	1268	664	1703	893	2231	1163	2756	1429	3267	1686
34	1564	1306	684	1755	920	2299	1198	2839	1473	3366	1737
35	1610	1344	704	1806	947	2366	1234	2923	1516	3465	1788
36	1656	1383	725	1858	974	2434	1269	3006	1559	3564	1839
37	1702	1421	745	1910	1001	2502	1304	3090	1603	3663	1890
38	1748	1460	765	1961	1028	2569	1339	3173	1646	3762	1941
39	1794	1498	785	2013	1055	2637	1375	3257	1689	3861	1993
40	1840	1536	805	2064	1082	2704	1410	3340	1733	3960	2044

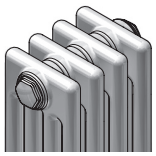
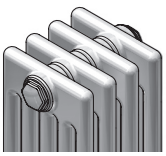
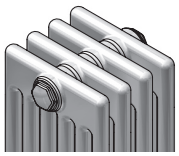
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		550									
											
Model		**2055**		**3055**		**4055**		**5055**		**6055**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,25		1,26		1,26		1,27		1,28	
Max. number of elements		64		64		64		64		64	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	168	88	226	117	295	154	364	189	432	223
5	230	210	110	282	147	369	192	455	236	540	279
6	276	252	132	338	176	443	231	546	284	648	334
7	322	294	154	395	206	516	269	637	331	756	390
8	368	336	176	451	235	590	307	728	378	864	446
9	414	378	198	507	264	664	346	819	425	972	502
10	460	419	220	563	294	737	384	910	473	1080	557
11	506	461	242	620	323	811	423	1001	520	1188	613
12	552	503	264	676	352	885	461	1092	567	1296	669
13	598	545	286	732	382	959	500	1183	614	1404	725
14	644	587	307	789	411	1032	538	1274	662	1512	780
15	690	629	329	845	440	1106	576	1365	709	1620	836
16	736	671	351	901	470	1180	615	1456	756	1728	892
17	782	713	373	958	499	1253	653	1547	803	1836	948
18	828	755	395	1014	528	1327	692	1638	851	1944	1003
19	874	797	417	1070	558	1401	730	1729	898	2052	1059
20	920	838	439	1126	587	1474	769	1820	945	2160	1115
21	966	880	461	1183	617	1548	807	1911	992	2268	1170
22	1012	922	483	1239	646	1622	845	2002	1040	2376	1226
23	1058	964	505	1295	675	1696	884	2093	1087	2484	1282
24	1104	1006	527	1352	705	1769	922	2184	1134	2592	1338
25	1150	1048	549	1408	734	1843	961	2275	1181	2700	1393
26	1196	1090	571	1464	763	1917	999	2366	1229	2808	1449
27	1242	1132	593	1521	793	1990	1038	2457	1276	2916	1505
28	1288	1174	615	1577	822	2064	1076	2548	1323	3024	1561
29	1334	1216	637	1633	851	2138	1114	2639	1370	3132	1616
30	1380	1257	659	1689	881	2211	1153	2730	1418	3240	1672
31	1426	1299	681	1746	910	2285	1191	2821	1465	3348	1728
32	1472	1341	703	1802	939	2359	1230	2912	1512	3456	1784
33	1518	1383	725	1858	969	2433	1268	3003	1560	3564	1839
34	1564	1425	747	1915	998	2506	1307	3094	1607	3672	1895
35	1610	1467	769	1971	1028	2580	1345	3185	1654	3780	1951
36	1656	1509	791	2027	1057	2654	1383	3276	1701	3888	2007
37	1702	1551	813	2084	1086	2727	1422	3367	1749	3996	2062
38	1748	1593	835	2140	1116	2801	1460	3458	1796	4104	2118
39	1794	1635	857	2196	1145	2875	1499	3549	1843	4212	2174
40	1840	1676	878	2252	1174	2948	1537	3640	1890	4320	2229
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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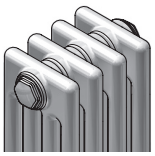
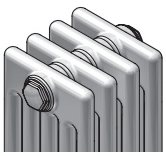
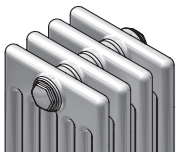
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		600									
											
Model		**2060**		**3060**		**4060**		**5060**		**6060**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,25		1,26		1,27		1,27		1,29	
Max. number of elements		64		64		64		64		64	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	182	95	244	127	320	166	395	205	468	240
5	230	227	119	305	159	399	207	493	256	585	300
6	276	272	142	366	191	479	248	592	307	702	360
7	322	318	166	427	222	559	290	691	358	819	420
8	368	363	190	488	254	639	331	789	409	936	481
9	414	408	214	549	286	719	373	888	460	1053	541
10	460	453	237	609	318	798	414	986	511	1170	601
11	506	499	261	670	349	878	455	1085	563	1287	661
12	552	544	285	731	381	958	497	1184	614	1404	721
13	598	589	309	792	413	1038	538	1282	665	1521	781
14	644	635	332	853	445	1118	580	1381	716	1638	841
15	690	680	356	914	476	1197	621	1479	767	1755	901
16	736	725	380	975	508	1277	662	1578	818	1872	961
17	782	771	404	1036	540	1357	704	1677	870	1989	1021
18	828	816	427	1097	572	1437	745	1775	921	2106	1081
19	874	861	451	1158	603	1517	787	1874	972	2223	1141
20	920	906	475	1218	635	1596	828	1972	1023	2340	1201
21	966	952	499	1279	667	1676	869	2071	1074	2457	1261
22	1012	997	522	1340	699	1756	911	2170	1125	2574	1322
23	1058	1042	546	1401	730	1836	952	2268	1176	2691	1382
24	1104	1088	570	1462	762	1916	994	2367	1228	2808	1442
25	1150	1133	594	1523	794	1995	1035	2465	1279	2925	1502
26	1196	1178	617	1584	826	2075	1076	2564	1330	3042	1562
27	1242	1224	641	1645	857	2155	1118	2663	1381	3159	1622
28	1288	1269	665	1706	889	2235	1159	2761	1432	3276	1682
29	1334	1314	689	1767	921	2315	1200	2860	1483	3393	1742
30	1380	1359	712	1827	953	2394	1242	2958	1534	3510	1802
31	1426	1405	736	1888	984	2474	1283	3057	1586	3627	1862
32	1472	1450	760	1949	1016	2554	1325	3156	1637	3744	1922
33	1518	1495	784	2010	1048	2634	1366	3254	1688	3861	1982
34	1564	1541	807	2071	1080	2714	1407	3353	1739	3978	2042
35	1610	1586	831	2132	1111	2793	1449	3451	1790	4095	2102
36	1656	1631	855	2193	1143	2873	1490	3550	1841	4212	2163
37	1702	1677	879	2254	1175	2953	1532	3649	1893	4329	2223
38	1748	1722	902	2315	1207	3033	1573	3747	1944	4446	2283
39	1794	1767	926	2376	1238	3113	1614	3846	1995	4563	2343
40	1840	1812	950	2436	1270	3192	1656	3944	2046	4680	2403
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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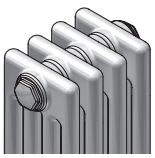
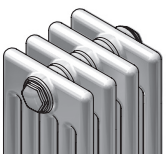
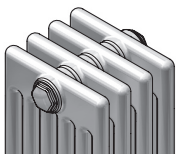
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	750									
										
Model	**2075**		**3075**		**4075**		**5075**		**6075**	
Depth mm	62		100		136		173		210	
Exponent n	1,25		1,26		1,27		1,29		1,30	
Max. number of elements	64		64		64		64		55	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 184	220	115	298	155	390	202	480	246	572	292
5 / 230	275	144	372	194	487	253	600	308	715	365
6 / 276	330	173	446	232	585	303	720	370	858	438
7 / 322	385	202	521	271	682	354	840	431	1001	511
8 / 368	440	231	595	310	780	404	960	493	1144	584
9 / 414	495	259	669	349	877	455	1080	554	1287	657
10 / 460	550	288	743	387	974	505	1200	616	1430	730
11 / 506	605	317	818	426	1072	556	1320	678	1573	803
12 / 552	660	346	892	465	1169	606	1440	739	1716	876
13 / 598	715	375	966	504	1267	657	1560	801	1859	950
14 / 644	770	404	1041	542	1364	707	1680	863	2002	1023
15 / 690	825	432	1115	581	1461	758	1800	924	2145	1096
16 / 736	880	461	1189	620	1559	808	1920	986	2288	1169
17 / 782	935	490	1264	659	1656	859	2040	1047	2431	1242
18 / 828	990	519	1338	697	1754	909	2160	1109	2574	1315
19 / 874	1045	548	1412	736	1851	960	2280	1171	2717	1388
20 / 920	1100	577	1486	775	1948	1011	2400	1232	2860	1461
21 / 966	1155	605	1561	814	2046	1061	2520	1294	3003	1534
22 / 1012	1210	634	1635	852	2143	1112	2640	1355	3146	1607
23 / 1058	1265	663	1709	891	2241	1162	2760	1417	3289	1680
24 / 1104	1320	692	1784	930	2338	1213	2880	1479	3432	1753
25 / 1150	1375	721	1858	969	2435	1263	3000	1540	3575	1826
26 / 1196	1430	750	1932	1007	2533	1314	3120	1602	3718	1899
27 / 1242	1485	778	2007	1046	2630	1364	3240	1663	3861	1972
28 / 1288	1540	807	2081	1085	2728	1415	3360	1725	4004	2045
29 / 1334	1595	836	2155	1124	2825	1465	3480	1787	4147	2118
30 / 1380	1650	865	2229	1162	2922	1516	3600	1848	4290	2191
31 / 1426	1705	894	2304	1201	3020	1566	3720	1910	4433	2264
32 / 1472	1760	922	2378	1240	3117	1617	3840	1972	4576	2337
33 / 1518	1815	951	2452	1279	3215	1667	3960	2033	4719	2410
34 / 1564	1870	980	2527	1317	3312	1718	4080	2095	4862	2483
35 / 1610	1925	1009	2601	1356	3409	1768	4200	2156	5005	2556
36 / 1656	1980	1038	2675	1395	3507	1819	4320	2218	5148	2629
37 / 1702	2035	1067	2750	1433	3604	1869	4440	2280	5291	2702
38 / 1748	2090	1095	2824	1472	3702	1920	4560	2341	5434	2776
39 / 1794	2145	1124	2898	1511	3799	1971	4680	2403	5577	2849
40 / 1840	2200	1153	2972	1550	3896	2021	4800	2464	5720	2922
Warning: Weight over 100 kg										

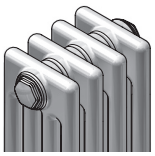
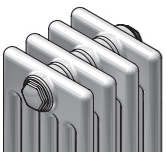
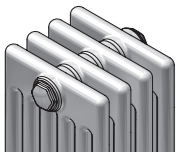
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		900									
											
Model		**2090**		**3090**		**4090**		**5090**		**6090**	
Depth mm		62		100		136		173		210	
Exponent n		1,25		1,27		1,28		1,30		1,31	
Max. number of elements		64		64		64		50		46	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	256	134	348	181	456	235	564	288	668	339
5	230	320	167	435	226	570	294	705	360	835	424
6	276	384	201	522	271	684	353	846	432	1002	509
7	322	448	234	609	316	798	412	987	504	1169	594
8	368	512	268	696	361	912	471	1128	576	1336	679
9	414	576	301	783	406	1026	529	1269	648	1503	764
10	460	639	335	870	451	1140	588	1410	720	1670	849
11	506	703	368	957	496	1254	647	1551	792	1837	933
12	552	767	402	1044	542	1368	706	1692	864	2004	1018
13	598	831	435	1131	587	1482	765	1833	936	2171	1103
14	644	895	469	1218	632	1596	824	1974	1008	2338	1188
15	690	959	502	1305	677	1710	882	2115	1080	2505	1273
16	736	1023	536	1392	722	1824	941	2256	1152	2672	1358
17	782	1087	569	1479	767	1938	1000	2397	1224	2839	1443
18	828	1151	603	1566	812	2052	1059	2538	1296	3006	1527
19	874	1215	636	1653	857	2166	1118	2679	1368	3173	1612
20	920	1278	670	1740	903	2280	1177	2820	1440	3340	1697
21	966	1342	703	1827	948	2394	1235	2961	1512	3507	1782
22	1012	1406	737	1914	993	2508	1294	3102	1584	3674	1867
23	1058	1470	770	2001	1038	2622	1353	3243	1656	3841	1952
24	1104	1534	804	2088	1083	2736	1412	3384	1728	4008	2037
25	1150	1598	837	2175	1128	2850	1471	3525	1800	4175	2121
26	1196	1662	871	2262	1173	2964	1530	3666	1872	4342	2206
27	1242	1726	904	2349	1219	3078	1588	3807	1945	4509	2291
28	1288	1790	938	2436	1264	3192	1647	3948	2017	4676	2376
29	1334	1854	971	2523	1309	3306	1706	4089	2089	4843	2461
30	1380	1917	1005	2610	1354	3420	1765	4230	2161	5010	2546
31	1426	1981	1038	2697	1399	3534	1824	4371	2233	5177	2631
32	1472	2045	1072	2784	1444	3648	1883	4512	2305	5344	2716
33	1518	2109	1105	2871	1489	3762	1941	4653	2377	5511	2800
34	1564	2173	1139	2958	1534	3876	2000	4794	2449	5678	2885
35	1610	2237	1172	3045	1580	3990	2059	4935	2521	5845	2970
36	1656	2301	1206	3132	1625	4104	2118	5076	2593	6012	3055
37	1702	2365	1239	3219	1670	4218	2177	5217	2665	6179	3140
38	1748	2429	1273	3306	1715	4332	2236	5358	2737	6346	3225
39	1794	2493	1306	3393	1760	4446	2294	5499	2809	6513	3310
40	1840	2556	1340	3480	1805	4560	2353	5640	2881	6680	3394
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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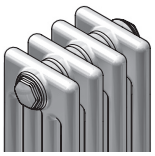
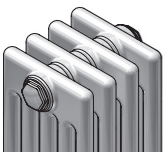
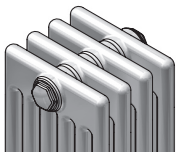
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1000									
											
Model		**2100**		**3100**		**4100**		**5100**		**6100**	
Depth mm		62		100		136		173		210	
Exponent n		1,25		1,27		1,29		1,30		1,31	
Max. number of elements		64		64		60		50		42	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	278	146	381	197	500	257	616	315	732	372
5	230	348	182	476	247	625	321	770	393	915	465
6	276	417	219	571	296	750	385	924	472	1098	558
7	322	487	255	666	345	875	449	1078	551	1281	651
8	368	556	291	761	395	1000	513	1232	629	1464	744
9	414	626	328	856	444	1125	578	1386	708	1647	837
10	460	695	364	951	493	1250	642	1540	787	1830	930
11	506	765	401	1047	543	1375	706	1694	865	2013	1023
12	552	834	437	1142	592	1500	770	1848	944	2196	1116
13	598	904	474	1237	641	1625	834	2002	1023	2379	1209
14	644	973	510	1332	691	1750	898	2156	1101	2562	1302
15	690	1043	546	1427	740	1875	963	2310	1180	2745	1395
16	736	1112	583	1522	789	2000	1027	2464	1259	2928	1488
17	782	1182	619	1617	839	2125	1091	2618	1337	3111	1581
18	828	1251	656	1712	888	2250	1155	2772	1416	3294	1674
19	874	1321	692	1807	937	2375	1219	2926	1495	3477	1767
20	920	1390	729	1902	987	2500	1284	3080	1573	3660	1860
21	966	1460	765	1998	1036	2625	1348	3234	1652	3843	1953
22	1012	1529	801	2093	1085	2750	1412	3388	1730	4026	2046
23	1058	1599	838	2188	1135	2875	1476	3542	1809	4209	2139
24	1104	1668	874	2283	1184	3000	1540	3696	1888	4392	2232
25	1150	1738	911	2378	1233	3125	1604	3850	1966	4575	2325
26	1196	1807	947	2473	1283	3250	1669	4004	2045	4758	2418
27	1242	1877	984	2568	1332	3375	1733	4158	2124	4941	2511
28	1288	1946	1020	2663	1381	3500	1797	4312	2202	5124	2604
29	1334	2016	1056	2758	1431	3625	1861	4466	2281	5307	2697
30	1380	2085	1093	2853	1480	3750	1925	4620	2360	5490	2790
31	1426	2155	1129	2949	1529	3875	1990	4774	2438	5673	2883
32	1472	2224	1166	3044	1579	4000	2054	4928	2517	5856	2976
33	1518	2294	1202	3139	1628	4125	2118	5082	2596	6039	3069
34	1564	2363	1239	3234	1677	4250	2182	5236	2674	6222	3162
35	1610	2433	1275	3329	1727	4375	2246	5390	2753	6405	3255
36	1656	2502	1311	3424	1776	4500	2310	5544	2832	6588	3348
37	1702	2572	1348	3519	1825	4625	2375	5698	2910	6771	3441
38	1748	2641	1384	3614	1875	4750	2439	5852	2989	6954	3534
39	1794	2711	1421	3709	1924	4875	2503	6006	3068	7137	3627
40	1840	2780	1457	3804	1973	5000	2567	6160	3146	7320	3720
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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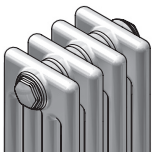
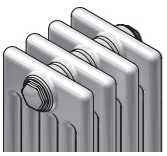
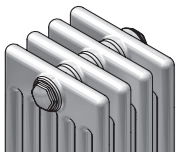
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height	mm	1100									
											
Model		**2110**		**3110**		**4110**		**5110**		**6110**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,25		1,28		1,29		1,31		1,32	
Max. number of elements		22		22		22		22		22	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	299	157	412	213	540	277	668	339	792	400
5	230	374	196	515	266	675	347	835	424	990	500
6	276	449	235	618	319	810	416	1002	509	1188	601
7	322	523	274	721	372	945	485	1169	594	1386	701
8	368	598	313	824	425	1080	554	1336	679	1584	801
9	414	673	352	927	478	1215	624	1503	764	1782	901
10	460	747	392	1030	532	1350	693	1670	849	1980	1001
11	506	822	431	1133	585	1485	762	1837	933	2178	1101
12	552	897	470	1236	638	1620	832	2004	1018	2376	1201
13	598	972	509	1339	691	1755	901	2171	1103	2574	1301
14	644	1046	548	1442	744	1890	970	2338	1188	2772	1401
15	690	1121	587	1545	797	2025	1040	2505	1273	2970	1501
16	736	1196	626	1648	850	2160	1109	2672	1358	3168	1601
17	782	1270	666	1751	904	2295	1178	2839	1443	3366	1702
18	828	1345	705	1854	957	2430	1248	3006	1527	3564	1802
19	874	1420	744	1957	1010	2565	1317	3173	1612	3762	1902
20	920	1494	783	2060	1063	2700	1386	3340	1697	3960	2002
21	966	1569	822	2163	1116	2835	1456	3507	1782	4158	2102
22	1012	1644	861	2266	1169	2970	1525	3674	1867	4356	2202
23	1058	1719	901	2369	1223	3105	1594	3841	1952	4554	2302
24	1104	1793	940	2472	1276	3240	1663	4008	2037	4752	2402
25	1150	1868	979	2575	1329	3375	1733	4175	2121	4950	2502
26	1196	1943	1018	2678	1382	3510	1802	4342	2206	5148	2602
27	1242	2017	1057	2781	1435	3645	1871	4509	2291	5346	2703
28	1288	2092	1096	2884	1488	3780	1941	4676	2376	5544	2803
29	1334	2167	1135	2987	1542	3915	2010	4843	2461	5742	2903
30	1380	2241	1175	3090	1595	4050	2079	5010	2546	5940	3003
31	1426	2316	1214	3193	1648	4185	2149	5177	2631	6138	3103
32	1472	2391	1253	3296	1701	4320	2218	5344	2716	6336	3203
33	1518	2466	1292	3399	1754	4455	2287	5511	2800	6534	3303
34	1564	2540	1331	3502	1807	4590	2357	5678	2885	6732	3403
35	1610	2615	1370	3605	1860	4725	2426	5845	2970	6930	3503
36	1656	2690	1410	3708	1914	4860	2495	6012	3055	7128	3603
37	1702	2764	1449	3811	1967	4995	2565	6179	3140	7326	3703
38	1748	2839	1488	3914	2020	5130	2634	6346	3225	7524	3804
39	1794	2914	1527	4017	2073	5265	2703	6513	3310	7722	3904
40	1840	2988	1566	4120	2126	5400	2772	6680	3394	7920	4004
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

1) This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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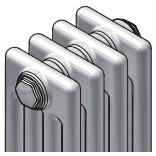
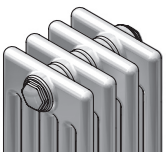
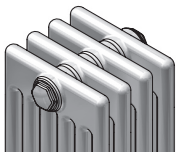
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1200									
											
Model		**2120**		**3120**		**4120**		**5120**		**6120**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,26		1,29		1,30		1,31		1,32	
Max. number of elements		22		22		22		22		22	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	331	172	460	236	588	300	716	364	840	425
5	230	414	216	575	295	735	375	895	455	1050	531
6	276	497	259	690	354	882	451	1074	546	1260	637
7	322	579	302	805	413	1029	526	1253	637	1470	743
8	368	662	345	920	472	1176	601	1432	728	1680	849
9	414	745	388	1035	531	1323	676	1611	819	1890	955
10	460	827	431	1150	590	1470	751	1790	910	2100	1062
11	506	910	474	1265	649	1617	826	1969	1001	2310	1168
12	552	993	517	1380	709	1764	901	2148	1091	2520	1274
13	598	1076	561	1495	768	1911	976	2327	1182	2730	1380
14	644	1158	604	1610	827	2058	1051	2506	1273	2940	1486
15	690	1241	647	1725	886	2205	1126	2685	1364	3150	1592
16	736	1324	690	1840	945	2352	1201	2864	1455	3360	1699
17	782	1406	733	1955	1004	2499	1276	3043	1546	3570	1805
18	828	1489	776	2070	1063	2646	1352	3222	1637	3780	1911
19	874	1572	819	2185	1122	2793	1427	3401	1728	3990	2017
20	920	1654	862	2300	1181	2940	1502	3580	1819	4200	2123
21	966	1737	906	2415	1240	3087	1577	3759	1910	4410	2229
22	1012	1820	949	2530	1299	3234	1652	3938	2001	4620	2336
23	1058	1903	992	2645	1358	3381	1727	4117	2092	4830	2442
24	1104	1985	1035	2760	1417	3528	1802	4296	2183	5040	2548
25	1150	2068	1078	2875	1476	3675	1877	4475	2274	5250	2654
26	1196	2151	1121	2990	1535	3822	1952	4654	2365	5460	2760
27	1242	2233	1164	3105	1594	3969	2027	4833	2456	5670	2866
28	1288	2316	1207	3220	1653	4116	2102	5012	2547	5880	2972
29	1334	2399	1251	3335	1712	4263	2177	5191	2638	6090	3079
30	1380	2481	1294	3450	1771	4410	2253	5370	2729	6300	3185
31	1426	2564	1337	3565	1830	4557	2328	5549	2820	6510	3291
32	1472	2647	1380	3680	1889	4704	2403	5728	2911	6720	3397
33	1518	2730	1423	3795	1948	4851	2478	5907	3002	6930	3503
34	1564	2812	1466	3910	2007	4998	2553	6086	3093	7140	3609
35	1610	2895	1509	4025	2067	5145	2628	6265	3183	7350	3716
36	1656	2978	1552	4140	2126	5292	2703	6444	3274	7560	3822
37	1702	3060	1596	4255	2185	5439	2778	6623	3365	7770	3928
38	1748	3143	1639	4370	2244	5586	2853	6802	3456	7980	4034
39	1794	3226	1682	4485	2303	5733	2928	6981	3547	8190	4140
40	1840	3308	1725	4600	2362	5880	3003	7160	3638	8400	4246
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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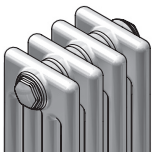
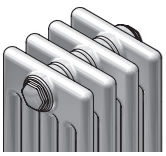
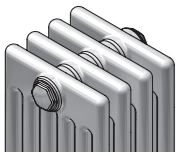
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1500									
											
Model		**2150**		**3150**		**4150**		**5150**		**6150**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,28		1,31		1,31		1,32		1,32	
Max. number of elements		22		22		22		22		22	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	416	215	560	285	720	366	876	443	1024	518
5	230	520	268	700	356	900	457	1095	554	1280	647
6	276	624	322	840	427	1080	549	1314	664	1536	776
7	322	728	376	980	498	1260	640	1533	775	1792	906
8	368	832	429	1120	569	1440	732	1752	886	2048	1035
9	414	936	483	1260	640	1620	823	1971	996	2304	1165
10	460	1040	537	1400	711	1800	915	2190	1107	2560	1294
11	506	1144	590	1540	783	1980	1006	2409	1218	2816	1424
12	552	1248	644	1680	854	2160	1098	2628	1329	3072	1553
13	598	1352	698	1820	925	2340	1189	2847	1439	3328	1682
14	644	1456	751	1960	996	2520	1281	3066	1550	3584	1812
15	690	1560	805	2100	1067	2700	1372	3285	1661	3840	1941
16	736	1664	859	2240	1138	2880	1463	3504	1771	4096	2071
17	782	1768	912	2380	1209	3060	1555	3723	1882	4352	2200
18	828	1872	966	2520	1281	3240	1646	3942	1993	4608	2329
19	874	1976	1020	2660	1352	3420	1738	4161	2103	4864	2459
20	920	2080	1073	2800	1423	3600	1829	4380	2214	5120	2588
21	966	2184	1127	2940	1494	3780	1921	4599	2325	5376	2718
22	1012	2288	1181	3080	1565	3960	2012	4818	2436	5632	2847
23	1058	2392	1234	3220	1636	4140	2104	5037	2546	5888	2977
24	1104	2496	1288	3360	1707	4320	2195	5256	2657	6144	3106
25	1150	2600	1342	3500	1778	4500	2287	5475	2768	6400	3235
26	1196	2704	1395	3640	1850	4680	2378	5694	2878	6656	3365
27	1242	2808	1449	3780	1921	4860	2470	5913	2989	6912	3494
28	1288	2912	1503	3920	1992	5040	2561	6132	3100	7168	3624
29	1334	3016	1556	4060	2063	5220	2652	6351	3211	7424	3753
30	1380	3120	1610	4200	2134	5400	2744	6570	3321	7680	3882
31	1426	3224	1664	4340	2205	5580	2835	6789	3432	7936	4012
32	1472	3328	1718	4480	2276	5760	2927	7008	3543	8192	4141
33	1518	3432	1771	4620	2348	5940	3018	7227	3653	8448	4271
34	1564	3536	1825	4760	2419	6120	3110	7446	3764	8704	4400
35	1610	3640	1879	4900	2490	6300	3201	7665	3875	8960	4529
36	1656	3744	1932	5040	2561	6480	3293	7884	3986	9216	4659
37	1702	3848	1986	5180	2632	6660	3384	8103	4096	9472	4788
38	1748	3952	2040	5320	2703	6840	3476	8322	4207	9728	4918
39	1794	4056	2093	5460	2774	7020	3567	8541	4318	9984	5047
40	1840	4160	2147	5600	2846	7200	3659	8760	4428	10240	5177
Warning: Weight over 100 kg											

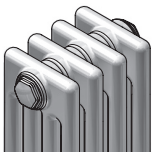
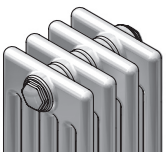
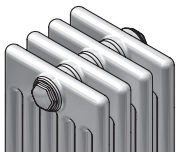
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1800									
											
Model		**2180**		**3180**		**4180**		**5180**		**6180**	
Depth mm		62		100		136		173		210	
Exponent n		1,31		1,33		1,33		1,32		1,33	
Max. number of elements		22		22		22		22		22	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	496	252	664	334	852	428	1036	524	1212	610
5	230	620	315	830	417	1065	536	1295	655	1515	762
6	276	744	378	996	501	1278	643	1554	786	1818	914
7	322	868	441	1162	584	1491	750	1813	917	2121	1067
8	368	992	504	1328	668	1704	857	2072	1047	2424	1219
9	414	1116	567	1494	751	1917	964	2331	1178	2727	1371
10	460	1240	630	1660	835	2130	1071	2590	1309	3030	1524
11	506	1364	693	1826	918	2343	1178	2849	1440	3333	1676
12	552	1488	756	1992	1002	2556	1285	3108	1571	3636	1829
13	598	1612	819	2158	1085	2769	1393	3367	1702	3939	1981
14	644	1736	882	2324	1169	2982	1500	3626	1833	4242	2133
15	690	1860	945	2490	1252	3195	1607	3885	1964	4545	2286
16	736	1984	1008	2656	1336	3408	1714	4144	2095	4848	2438
17	782	2108	1071	2822	1419	3621	1821	4403	2226	5151	2591
18	828	2232	1134	2988	1503	3834	1928	4662	2357	5454	2743
19	874	2356	1197	3154	1586	4047	2035	4921	2488	5757	2895
20	920	2480	1260	3320	1670	4260	2142	5180	2619	6060	3048
21	966	2604	1323	3486	1753	4473	2250	5439	2750	6363	3200
22	1012	2728	1386	3652	1837	4686	2357	5698	2880	6666	3352
23	1058	2852	1449	3818	1920	4899	2464	5957	3011	6969	3505
24	1104	2976	1512	3984	2004	5112	2571	6216	3142	7272	3657
25	1150	3100	1575	4150	2087	5325	2678	6475	3273	7575	3810
26	1196	3224	1638	4316	2171	5538	2785	6734	3404	7878	3962
27	1242	3348	1701	4482	2254	5751	2892	6993	3535	8181	4114
28	1288	3472	1764	4648	2338	5964	2999	7252	3666	8484	4267
29	1334	3596	1827	4814	2421	6177	3107	7511	3797	8787	4419
30	1380	3720	1890	4980	2505	6390	3214	7770	3928	9090	4571
31	1426	3844	1953	5146	2588	6603	3321	8029	4059	9393	4724
32	1472	3968	2016	5312	2671	6816	3428	8288	4190	9696	4876
33	1518	4092	2079	5478	2755	7029	3535	8547	4321	9999	5029
34	1564	4216	2142	5644	2838	7242	3642	8806	4452	10302	5181
35	1610	4340	2205	5810	2922	7455	3749	9065	4583	10605	5333
36	1656	4464	2268	5976	3005	7668	3856	9324	4713	10908	5486
37	1702	4588	2331	6142	3089	7881	3963	9583	4844	11211	5638
38	1748	4712	2394	6308	3172	8094	4071	9842	4975	11514	5791
39	1794	4836	2457	6474	3256	8307	4178	10101	5106	11817	5943
40	1840	4960	2520	6640	3339	8520	4285	10360	5237	12120	6095
Warning: Weight over 100 kg											

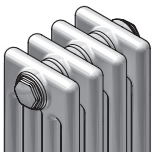
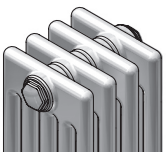
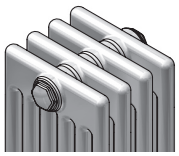
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		2000									
											
Model		**2200**		**3200**		**4200**		**5200**		**6200**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,31		1,33		1,32		1,32		1,32	
Max. number of elements		22		22		22		22		22	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	552	280	732	368	936	473	1140	576	1336	675
5	230	690	351	915	460	1170	591	1425	720	1670	844
6	276	828	421	1098	552	1404	710	1710	864	2004	1013
7	322	966	491	1281	644	1638	828	1995	1009	2338	1182
8	368	1104	561	1464	736	1872	946	2280	1153	2672	1351
9	414	1242	631	1647	828	2106	1065	2565	1297	3006	1520
10	460	1380	701	1830	920	2340	1183	2850	1441	3340	1688
11	506	1518	771	2013	1012	2574	1301	3135	1585	3674	1857
12	552	1656	841	2196	1104	2808	1420	3420	1729	4008	2026
13	598	1794	912	2379	1196	3042	1538	3705	1873	4342	2195
14	644	1932	982	2562	1288	3276	1656	3990	2017	4676	2364
15	690	2070	1052	2745	1381	3510	1774	4275	2161	5010	2533
16	736	2208	1122	2928	1473	3744	1893	4560	2305	5344	2702
17	782	2346	1192	3111	1565	3978	2011	4845	2449	5678	2870
18	828	2484	1262	3294	1657	4212	2129	5130	2593	6012	3039
19	874	2622	1332	3477	1749	4446	2248	5415	2737	6346	3208
20	920	2760	1402	3660	1841	4680	2366	5700	2881	6680	3377
21	966	2898	1473	3843	1933	4914	2484	5985	3026	7014	3546
22	1012	3036	1543	4026	2025	5148	2602	6270	3170	7348	3715
23	1058	3174	1613	4209	2117	5382	2721	6555	3314	7682	3883
24	1104	3312	1683	4392	2209	5616	2839	6840	3458	8016	4052
25	1150	3450	1753	4575	2301	5850	2957	7125	3602	8350	4221
26	1196	3588	1823	4758	2393	6084	3076	7410	3746	8684	4390
27	1242	3726	1893	4941	2485	6318	3194	7695	3890	9018	4559
28	1288	3864	1963	5124	2577	6552	3312	7980	4034	9352	4728
29	1334	4002	2034	5307	2669	6786	3430	8265	4178	9686	4896
30	1380	4140	2104	5490	2761	7020	3549	8550	4322	10020	5065
31	1426	4278	2174	5673	2853	7254	3667	8835	4466	10354	5234
32	1472	4416	2244	5856	2945	7488	3785	9120	4610	10688	5403
33	1518	4554	2314	6039	3037	7722	3904	9405	4754	11022	5572
34	1564	4692	2384	6222	3129	7956	4022	9690	4898	11356	5741
35	1610	4830	2454	6405	3221	8190	4140	9975	5043	11690	5910
36	1656	4968	2524	6588	3313	8424	4259	10260	5187	12024	6078
37	1702	5106	2595	6771	3405	8658	4377	10545	5331	12358	6247
38	1748	5244	2665	6954	3497	8892	4495	10830	5475	12692	6416
39	1794	5382	2735	7137	3589	9126	4613	11115	5619	13026	6585
40	1840	5520	2805	7320	3681	9360	4732	11400	5763	13360	6754
Warning: Weight over 100 kg											

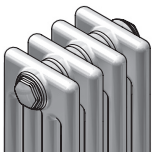
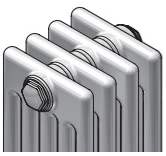
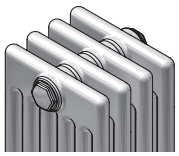
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height	mm	2200									
											
Model		**2220**		**3220**		**4220**		**5220**		**6220**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,31		1,32		1,32		1,32		1,32	
Max. number of elements		22		22		22		22		17	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	604	307	800	404	1024	518	1248	631	1460	738
5	230	755	384	1000	506	1280	647	1560	789	1825	923
6	276	906	460	1200	607	1536	776	1872	946	2190	1107
7	322	1057	537	1400	708	1792	906	2184	1104	2555	1292
8	368	1208	614	1600	809	2048	1035	2496	1262	2920	1476
9	414	1359	691	1800	910	2304	1165	2808	1420	3285	1661
10	460	1510	767	2000	1011	2560	1294	3120	1577	3650	1845
11	506	1661	844	2200	1112	2816	1424	3432	1735	4015	2030
12	552	1812	921	2400	1213	3072	1553	3744	1893	4380	2214
13	598	1963	997	2600	1314	3328	1682	4056	2050	4745	2399
14	644	2114	1074	2800	1415	3584	1812	4368	2208	5110	2583
15	690	2265	1151	3000	1517	3840	1941	4680	2366	5475	2768
16	736	2416	1228	3200	1618	4096	2071	4992	2524	5840	2952
17	782	2567	1304	3400	1719	4352	2200	5304	2681	6205	3137
18	828	2718	1381	3600	1820	4608	2329	5616	2839	6570	3321
19	874	2869	1458	3800	1921	4864	2459	5928	2997	6935	3506
20	920	3020	1535	4000	2022	5120	2588	6240	3154	7300	3690
21	966	3171	1611	4200	2123	5376	2718	6552	3312	7665	3875
22	1012	3322	1688	4400	2224	5632	2847	6864	3470	8030	4059
23	1058	3473	1765	4600	2325	5888	2977	7176	3628	8395	4244
24	1104	3624	1841	4800	2426	6144	3106	7488	3785	8760	4428
25	1150	3775	1918	5000	2528	6400	3235	7800	3943	9125	4613
26	1196	3926	1995	5200	2629	6656	3365	8112	4101	9490	4797
27	1242	4077	2072	5400	2730	6912	3494	8424	4259	9855	4982
28	1288	4228	2148	5600	2831	7168	3624	8736	4416	10220	5166
29	1334	4379	2225	5800	2932	7424	3753	9048	4574	10585	5351
30	1380	4530	2302	6000	3033	7680	3882	9360	4732	10950	5535
31	1426	4681	2379	6200	3134	7936	4012	9672	4889	11315	5720
32	1472	4832	2455	6400	3235	8192	4141	9984	5047	11680	5904
33	1518	4983	2532	6600	3336	8448	4271	10296	5205	12045	6089
34	1564	5134	2609	6800	3438	8704	4400	10608	5363	12410	6274
35	1610	5285	2686	7000	3539	8960	4529	10920	5520	12775	6458
36	1656	5436	2762	7200	3640	9216	4659	11232	5678	13140	6643
37	1702	5587	2839	7400	3741	9472	4788	11544	5836	13505	6827
38	1748	5738	2916	7600	3842	9728	4918	11856	5993	13870	7012
39	1794	5889	2992	7800	3943	9984	5047	12168	6151	14235	7196
40	1840	6040	3069	8000	4044	10240	5177	12480	6309	14600	7381
Warning: Weight over 100 kg											

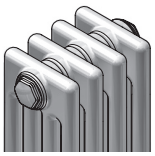
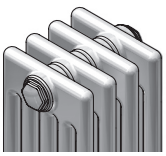
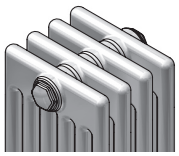
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

1) This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		2500									
											
Model		**2250**		**3250**		**4250**		**5250**		**6250**	
Depth mm		62		100		136		173		210	
Exponent n		1,30		1,32		1,31		1,31		1,32	
Max. number of elements		22		22		22		22		17	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	684	349	900	455	1156	587	1408	715	1648	833
5	230	855	437	1125	569	1445	734	1760	894	2060	1041
6	276	1026	524	1350	682	1734	881	2112	1073	2472	1250
7	322	1197	611	1575	796	2023	1028	2464	1252	2884	1458
8	368	1368	699	1800	910	2312	1175	2816	1431	3296	1666
9	414	1539	786	2025	1024	2601	1322	3168	1610	3708	1874
10	460	1710	873	2250	1137	2890	1469	3520	1789	4120	2083
11	506	1881	961	2475	1251	3179	1615	3872	1968	4532	2291
12	552	2052	1048	2700	1365	3468	1762	4224	2146	4944	2499
13	598	2223	1135	2925	1479	3757	1909	4576	2325	5356	2708
14	644	2394	1223	3150	1592	4046	2056	4928	2504	5768	2916
15	690	2565	1310	3375	1706	4335	2203	5280	2683	6180	3124
16	736	2736	1397	3600	1820	4624	2350	5632	2862	6592	3332
17	782	2907	1485	3825	1934	4913	2496	5984	3041	7004	3541
18	828	3078	1572	4050	2047	5202	2643	6336	3220	7416	3749
19	874	3249	1660	4275	2161	5491	2790	6688	3398	7828	3957
20	920	3420	1747	4500	2275	5780	2937	7040	3577	8240	4165
21	966	3591	1834	4725	2389	6069	3084	7392	3756	8652	4374
22	1012	3762	1922	4950	2502	6358	3231	7744	3935	9064	4582
23	1058	3933	2009	5175	2616	6647	3378	8096	4114	9476	4790
24	1104	4104	2096	5400	2730	6936	3524	8448	4293	9888	4999
25	1150	4275	2184	5625	2844	7225	3671	8800	4472	10300	5207
26	1196	4446	2271	5850	2957	7514	3818	9152	4650	10712	5415
27	1242	4617	2358	6075	3071	7803	3965	9504	4829	11124	5623
28	1288	4788	2446	6300	3185	8092	4112	9856	5008	11536	5832
29	1334	4959	2533	6525	3299	8381	4259	10208	5187	11948	6040
30	1380	5130	2620	6750	3412	8670	4406	10560	5366	12360	6248
31	1426	5301	2708	6975	3526	8959	4552	10912	5545	12772	6457
32	1472	5472	2795	7200	3640	9248	4699	11264	5724	13184	6665
33	1518	5643	2882	7425	3753	9537	4846	11616	5903	13596	6873
34	1564	5814	2970	7650	3867	9826	4993	11968	6081	14008	7081
35	1610	5985	3057	7875	3981	10115	5140	12320	6260	14420	7290
36	1656	6156	3144	8100	4095	10404	5287	12672	6439	14832	7498
37	1702	6327	3232	8325	4208	10693	5434	13024	6618	15244	7706
38	1748	6498	3319	8550	4322	10982	5580	13376	6797	15656	7914
39	1794	6669	3406	8775	4436	11271	5727	13728	6976	16068	8123
40	1840	6840	3494	9000	4550	11560	5874	14080	7155	16480	8331
Warning: Weight over 100 kg											

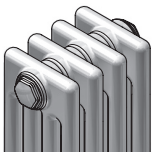
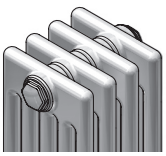
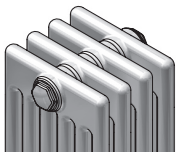
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		2800									
											
Model		**2280**		**3280**		**4280**		**5280**		**6280**	
Depth mm		62		100		136		173		210	
Exponent n		1,30		1,30		1,30		1,30		1,30	
Max. number of elements		22		22		22		17		14	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	756	386	1004	513	1292	660	1568	801	1836	938
5	230	945	483	1255	641	1615	825	1960	1001	2295	1172
6	276	1134	579	1506	769	1938	990	2352	1201	2754	1407
7	322	1323	676	1757	897	2261	1155	2744	1402	3213	1641
8	368	1512	772	2008	1026	2584	1320	3136	1602	3672	1876
9	414	1701	869	2259	1154	2907	1485	3528	1802	4131	2110
10	460	1890	965	2510	1282	3230	1650	3920	2002	4590	2344
11	506	2079	1062	2761	1410	3553	1815	4312	2202	5049	2579
12	552	2268	1158	3012	1538	3876	1980	4704	2403	5508	2813
13	598	2457	1255	3263	1667	4199	2145	5096	2603	5967	3048
14	644	2646	1352	3514	1795	4522	2310	5488	2803	6426	3282
15	690	2835	1448	3765	1923	4845	2475	5880	3003	6885	3517
16	736	3024	1545	4016	2051	5168	2640	6272	3204	7344	3751
17	782	3213	1641	4267	2179	5491	2805	6664	3404	7803	3986
18	828	3402	1738	4518	2308	5814	2970	7056	3604	8262	4220
19	874	3591	1834	4769	2436	6137	3135	7448	3804	8721	4454
20	920	3780	1931	5020	2564	6460	3300	7840	4004	9180	4689
21	966	3969	2027	5271	2692	6783	3465	8232	4205	9639	4923
22	1012	4158	2124	5522	2820	7106	3630	8624	4405	10098	5158
23	1058	4347	2220	5773	2949	7429	3795	9016	4605	10557	5392
24	1104	4536	2317	6024	3077	7752	3960	9408	4805	11016	5627
25	1150	4725	2413	6275	3205	8075	4124	9800	5006	11475	5861
26	1196	4914	2510	6526	3333	8398	4289	10192	5206	11934	6096
27	1242	5103	2606	6777	3462	8721	4454	10584	5406	12393	6330
28	1288	5292	2703	7028	3590	9044	4619	10976	5606	12852	6564
29	1334	5481	2800	7279	3718	9367	4784	11368	5806	13311	6799
30	1380	5670	2896	7530	3846	9690	4949	11760	6007	13770	7033
31	1426	5859	2993	7781	3974	10013	5114	12152	6207	14229	7268
32	1472	6048	3089	8032	4103	10336	5279	12544	6407	14688	7502
33	1518	6237	3186	8283	4231	10659	5444	12936	6607	15147	7737
34	1564	6426	3282	8534	4359	10982	5609	13328	6808	15606	7971
35	1610	6615	3379	8785	4487	11305	5774	13720	7008	16065	8206
36	1656	6804	3475	9036	4615	11628	5939	14112	7208	16524	8440
37	1702	6993	3572	9287	4744	11951	6104	14504	7408	16983	8674
38	1748	7182	3668	9538	4872	12274	6269	14896	7608	17442	8909
39	1794	7371	3765	9789	5000	12597	6434	15288	7809	17901	9143
40	1840	7560	3861	10040	5128	12920	6599	15680	8009	18360	9378
Warning: Weight over 100 kg											

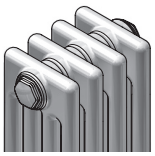
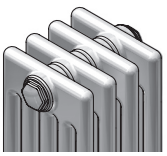
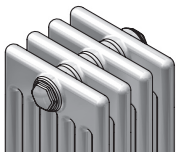
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		3000									
											
Model		**2300**		**3300**		**4300**		**5300**		**6300**	
Depth mm		62		100		136		173		210	
Exponent n		1,30		1,30		1,30		1,30		1,30	
Max. number of elements		22		22		22		17		14	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	184	804	411	1076	550	1380	705	1680	858	1964	1003
5	230	1005	513	1345	687	1725	881	2100	1073	2455	1254
6	276	1206	616	1614	824	2070	1057	2520	1287	2946	1505
7	322	1407	719	1883	962	2415	1234	2940	1502	3437	1756
8	368	1608	821	2152	1099	2760	1410	3360	1716	3928	2006
9	414	1809	924	2421	1237	3105	1586	3780	1931	4419	2257
10	460	2010	1027	2690	1374	3450	1762	4200	2145	4910	2508
11	506	2211	1129	2959	1511	3795	1938	4620	2360	5401	2759
12	552	2412	1232	3228	1649	4140	2115	5040	2574	5892	3009
13	598	2613	1335	3497	1786	4485	2291	5460	2789	6383	3260
14	644	2814	1437	3766	1924	4830	2467	5880	3003	6874	3511
15	690	3015	1540	4035	2061	5175	2643	6300	3218	7365	3762
16	736	3216	1643	4304	2198	5520	2819	6720	3432	7856	4013
17	782	3417	1745	4573	2336	5865	2996	7140	3647	8347	4263
18	828	3618	1848	4842	2473	6210	3172	7560	3861	8838	4514
19	874	3819	1951	5111	2611	6555	3348	7980	4076	9329	4765
20	920	4020	2053	5380	2748	6900	3524	8400	4290	9820	5016
21	966	4221	2156	5649	2885	7245	3701	8820	4505	10311	5267
22	1012	4422	2259	5918	3023	7590	3877	9240	4720	10802	5517
23	1058	4623	2361	6187	3160	7935	4053	9660	4934	11293	5768
24	1104	4824	2464	6456	3298	8280	4229	10080	5149	11784	6019
25	1150	5025	2567	6725	3435	8625	4405	10500	5363	12275	6270
26	1196	5226	2669	6994	3572	8970	4582	10920	5578	12766	6521
27	1242	5427	2772	7263	3710	9315	4758	11340	5792	13257	6771
28	1288	5628	2875	7532	3847	9660	4934	11760	6007	13748	7022
29	1334	5829	2977	7801	3985	10005	5110	12180	6221	14239	7273
30	1380	6030	3080	8070	4122	10350	5286	12600	6436	14730	7524
31	1426	6231	3183	8339	4259	10695	5463	13020	6650	15221	7774
32	1472	6432	3285	8608	4397	11040	5639	13440	6865	15712	8025
33	1518	6633	3388	8877	4534	11385	5815	13860	7079	16203	8276
34	1564	6834	3491	9146	4672	11730	5991	14280	7294	16694	8527
35	1610	7035	3593	9415	4809	12075	6168	14700	7508	17185	8778
36	1656	7236	3696	9684	4946	12420	6344	15120	7723	17676	9028
37	1702	7437	3799	9953	5084	12765	6520	15540	7937	18167	9279
38	1748	7638	3901	10222	5221	13110	6696	15960	8152	18658	9530
39	1794	7839	4004	10491	5359	13455	6872	16380	8366	19149	9781
40	1840	8040	4107	10760	5496	13800	7049	16800	8581	19640	10032
Warning: Weight over 100 kg											

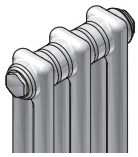
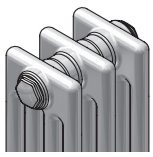
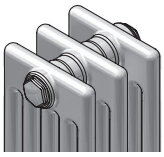
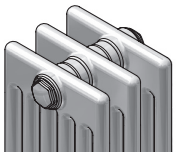
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	190									
										
Model	**K2019**		**K3019**		**K4019**		**K5019**		**K6019**	
Depth mm	62		100		136		173		210	
Exponent n	1,30		1,26		1,26		1,26		1,27	
Max. number of elements	44		44		44		44		44	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	69	35	94	49	127	66	156	81	184	95
5 / 306	86	44	118	61	159	83	194	101	229	119
6 / 371	104	53	141	74	191	99	233	121	275	143
7 / 436	121	61	165	86	222	116	272	142	321	166
8 / 501	138	70	188	98	254	132	311	162	367	190
9 / 566	155	79	212	110	286	149	350	182	413	214
10 / 631	172	88	235	123	317	165	388	202	458	238
11 / 696	190	97	259	135	349	182	427	223	504	261
12 / 761	207	105	282	147	381	198	466	243	550	285
13 / 826	224	114	306	159	413	215	505	263	596	309
14 / 891	241	123	329	172	444	231	544	283	642	333
15 / 956	258	132	353	184	476	248	582	303	687	356
16 / 1021	276	141	376	196	508	264	621	324	733	380
17 / 1086	293	149	400	208	539	281	660	344	779	404
18 / 1151	310	158	423	221	571	298	699	364	825	428
19 / 1216	327	167	447	233	603	314	738	384	871	451
20 / 1281	344	176	470	245	634	331	776	405	916	475
21 / 1346	362	184	494	257	666	347	815	425	962	499
22 / 1411	379	193	517	270	698	364	854	445	1008	523
23 / 1476	396	202	541	282	730	380	893	465	1054	546
24 / 1541	413	211	564	294	761	397	932	486	1100	570
25 / 1606	430	220	588	306	793	413	970	506	1145	594
26 / 1671	448	228	611	319	825	430	1009	526	1191	618
27 / 1736	465	237	635	331	856	446	1048	546	1237	641
28 / 1801	482	246	658	343	888	463	1087	566	1283	665
29 / 1866	499	255	682	355	920	479	1126	587	1329	689
30 / 1931	516	264	705	368	951	496	1164	607	1374	713
31 / 1996	534	272	729	380	983	512	1203	627	1420	737
32 / 2061	551	281	752	392	1015	529	1242	647	1466	760
33 / 2126	568	290	776	404	1047	545	1281	668	1512	784
34 / 2191	585	299	799	417	1078	562	1320	688	1558	808
35 / 2256	602	307	823	429	1110	579	1358	708	1603	832
36 / 2321	620	316	846	441	1142	595	1397	728	1649	855
37 / 2386	637	325	870	453	1173	612	1436	749	1695	879
38 / 2451	654	334	893	466	1205	628	1475	769	1741	903
39 / 2516	671	343	917	478	1237	645	1514	789	1787	927
40 / 2581	688	351	940	490	1268	661	1552	809	1832	950

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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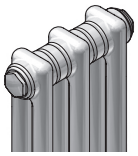
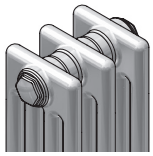
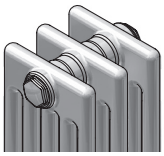
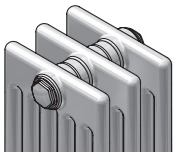
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	260									
										
Model	**K2026**		**K3026**		**K4026**		**K5026**		**K6026**	
Depth mm	62		100		136		173		210	
Exponent n	1,30		1,27		1,26		1,25		1,28	
Max. number of elements	44		44		44		44		44	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	96	49	127	66	160	83	196	103	233	120
5 / 306	120	61	158	82	200	104	245	128	291	150
6 / 371	144	73	190	98	240	125	294	154	349	180
7 / 436	168	85	222	115	280	146	343	179	407	210
8 / 501	192	98	253	131	320	167	392	205	465	240
9 / 566	216	110	285	148	360	188	441	231	523	270
10 / 631	239	122	316	164	400	209	489	256	581	300
11 / 696	263	134	348	180	440	229	538	282	640	330
12 / 761	287	146	380	197	480	250	587	308	698	360
13 / 826	311	159	411	213	520	271	636	333	756	390
14 / 891	335	171	443	229	560	292	685	359	814	420
15 / 956	359	183	474	246	600	313	734	384	872	450
16 / 1021	383	195	506	262	640	334	783	410	930	480
17 / 1086	407	208	538	279	680	355	832	436	988	510
18 / 1151	431	220	569	295	720	375	881	461	1046	540
19 / 1216	455	232	601	311	760	396	930	487	1104	570
20 / 1281	478	244	632	328	800	417	978	513	1162	600
21 / 1346	502	256	664	344	840	438	1027	538	1221	630
22 / 1411	526	269	696	361	880	459	1076	564	1279	660
23 / 1476	550	281	727	377	920	480	1125	590	1337	690
24 / 1541	574	293	759	393	960	501	1174	615	1395	720
25 / 1606	598	305	790	410	1000	521	1223	641	1453	750
26 / 1671	622	317	822	426	1040	542	1272	666	1511	780
27 / 1736	646	330	854	443	1080	563	1321	692	1569	810
28 / 1801	670	342	885	459	1120	584	1370	718	1627	840
29 / 1866	694	354	917	475	1160	605	1419	743	1685	870
30 / 1931	717	366	948	492	1200	626	1467	769	1743	900
31 / 1996	741	378	980	508	1240	647	1516	795	1802	930
32 / 2061	765	391	1012	525	1280	667	1565	820	1860	959
33 / 2126	789	403	1043	541	1320	688	1614	846	1918	989
34 / 2191	813	415	1075	557	1360	709	1663	871	1976	1019
35 / 2256	837	427	1106	574	1400	730	1712	897	2034	1049
36 / 2321	861	439	1138	590	1440	751	1761	923	2092	1079
37 / 2386	885	452	1170	607	1480	772	1810	948	2150	1109
38 / 2451	909	464	1201	623	1520	793	1859	974	2208	1139
39 / 2516	933	476	1233	639	1560	813	1908	1000	2266	1169
40 / 2581	956	488	1264	656	1600	834	1956	1025	2324	1199

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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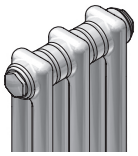
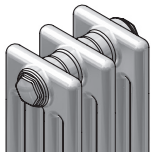
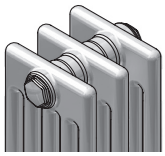
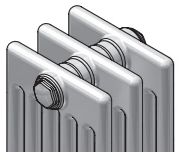
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	300				
					
Model	**K2030**	**K3030**	**K4030**	**K5030**	**K6030**
Depth mm	62	100	136	173	210
Exponent n	1,29	1,27	1,26	1,25	1,29
Max. number of elements	44	44	44	44	44

Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	106	54	144	74	184	96	223	117	265	136
5	306	133	68	180	93	230	120	279	146	331	170
6	371	159	82	216	112	276	144	335	175	398	204
7	436	186	95	252	130	322	168	390	204	464	238
8	501	212	109	288	149	368	192	446	234	530	272
9	566	239	122	324	168	414	216	502	263	596	306
10	631	265	136	359	186	460	240	557	292	662	340
11	696	292	150	395	205	506	264	613	321	729	374
12	761	318	163	431	223	552	288	669	350	795	408
13	826	345	177	467	242	598	312	725	380	861	442
14	891	371	190	503	261	644	336	780	409	927	476
15	956	398	204	539	279	690	360	836	438	993	510
16	1021	424	218	575	298	736	384	892	467	1060	544
17	1086	451	231	611	317	782	408	947	496	1126	578
18	1151	477	245	647	335	828	432	1003	526	1192	612
19	1216	504	259	683	354	874	456	1059	555	1258	646
20	1281	530	272	718	372	920	480	1114	584	1324	680
21	1346	557	286	754	391	966	504	1170	613	1391	714
22	1411	583	299	790	410	1012	528	1226	642	1457	748
23	1476	610	313	826	428	1058	552	1282	671	1523	782
24	1541	636	327	862	447	1104	576	1337	701	1589	816
25	1606	663	340	898	466	1150	600	1393	730	1655	850
26	1671	689	354	934	484	1196	624	1449	759	1722	884
27	1736	716	367	970	503	1242	648	1504	788	1788	918
28	1801	742	381	1006	521	1288	672	1560	817	1854	952
29	1866	769	395	1042	540	1334	696	1616	847	1920	986
30	1931	795	408	1077	559	1380	720	1671	876	1986	1020
31	1996	822	422	1113	577	1426	744	1727	905	2053	1054
32	2061	848	435	1149	596	1472	768	1783	934	2119	1088
33	2126	875	449	1185	615	1518	792	1839	963	2185	1122
34	2191	901	463	1221	633	1564	816	1894	993	2251	1156
35	2256	928	476	1257	652	1610	840	1950	1022	2317	1190
36	2321	954	490	1293	670	1656	864	2006	1051	2384	1224
37	2386	981	503	1329	689	1702	887	2061	1080	2450	1258
38	2451	1007	517	1365	708	1748	911	2117	1109	2516	1292
39	2516	1034	531	1401	726	1794	935	2173	1139	2582	1326
40	2581	1060	544	1436	745	1840	959	2228	1168	2648	1360

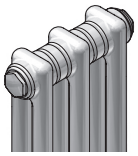
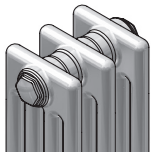
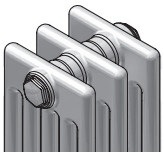
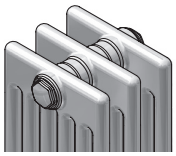
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		350									
											
Model		**K2035**		**K3035**		**K4035**		**K5035**		**K6035**	
Depth mm		62		100		136		173		210	
Exponent n		1,29		1,28		1,26		1,25		1,29	
Max. number of elements		44		44		44		44		44	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	118	60	165	85	210	109	256	134	305	156
5	306	147	75	206	106	262	136	320	168	381	196
6	371	176	90	247	127	314	164	384	201	458	235
7	436	206	105	288	148	367	191	448	235	534	274
8	501	235	120	329	170	419	218	512	268	610	313
9	566	264	135	370	191	471	245	576	302	686	352
10	631	293	150	411	212	523	273	640	335	762	391
11	696	323	165	453	233	576	300	704	369	839	430
12	761	352	181	494	255	628	327	768	403	915	469
13	826	381	196	535	276	680	355	832	436	991	509
14	891	411	211	576	297	733	382	896	470	1067	548
15	956	440	226	617	318	785	409	960	503	1143	587
16	1021	469	241	658	339	837	436	1024	537	1220	626
17	1086	499	256	699	361	890	464	1088	570	1296	665
18	1151	528	271	740	382	942	491	1152	604	1372	704
19	1216	557	286	781	403	994	518	1216	637	1448	743
20	1281	586	301	822	424	1046	545	1280	671	1524	782
21	1346	616	316	864	445	1099	573	1344	704	1601	822
22	1411	645	331	905	467	1151	600	1408	738	1677	861
23	1476	674	346	946	488	1203	627	1472	772	1753	900
24	1541	704	361	987	509	1256	655	1536	805	1829	939
25	1606	733	376	1028	530	1308	682	1600	839	1905	978
26	1671	762	391	1069	551	1360	709	1664	872	1982	1017
27	1736	792	406	1110	573	1413	736	1728	906	2058	1056
28	1801	821	421	1151	594	1465	764	1792	939	2134	1095
29	1866	850	436	1192	615	1517	791	1856	973	2210	1135
30	1931	879	451	1233	636	1569	818	1920	1006	2286	1174
31	1996	909	466	1275	658	1622	845	1984	1040	2363	1213
32	2061	938	481	1316	679	1674	873	2048	1073	2439	1252
33	2126	967	496	1357	700	1726	900	2112	1107	2515	1291
34	2191	997	511	1398	721	1779	927	2176	1141	2591	1330
35	2256	1026	527	1439	742	1831	954	2240	1174	2667	1369
36	2321	1055	542	1480	764	1883	982	2304	1208	2744	1408
37	2386	1085	557	1521	785	1936	1009	2368	1241	2820	1448
38	2451	1114	572	1562	806	1988	1036	2432	1275	2896	1487
39	2516	1143	587	1603	827	2040	1064	2496	1308	2972	1526
40	2581	1172	602	1644	848	2092	1091	2560	1342	3048	1565

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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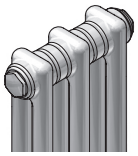
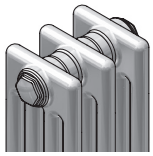
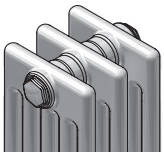
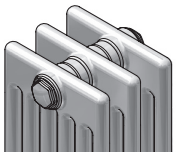
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	400				
					
Model	**K2040**	**K3040**	**K4040**	**K5040**	**K6040**
Depth mm	62	100	136	173	210
Exponent n	1,29	1,28	1,27	1,26	1,29
Max. number of elements	44	44	44	44	44

Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	130	66	186	96	237	123	290	151	345	177
5	306	162	83	232	119	296	153	362	189	431	221
6	371	194	100	278	143	355	184	435	227	518	266
7	436	227	116	325	167	414	215	507	264	604	310
8	501	259	133	371	191	473	245	580	302	690	354
9	566	291	149	417	215	532	276	652	340	776	398
10	631	323	166	463	239	591	307	724	378	862	443
11	696	356	182	510	263	651	337	797	415	949	487
12	761	388	199	556	287	710	368	869	453	1035	531
13	826	420	216	602	311	769	399	942	491	1121	575
14	891	453	232	649	335	828	429	1014	529	1207	620
15	956	485	249	695	358	887	460	1086	566	1293	664
16	1021	517	265	741	382	946	491	1159	604	1380	708
17	1086	550	282	788	406	1005	521	1231	642	1466	752
18	1151	582	299	834	430	1064	552	1304	680	1552	797
19	1216	614	315	880	454	1123	583	1376	717	1638	841
20	1281	646	332	926	478	1182	613	1448	755	1724	885
21	1346	679	348	973	502	1242	644	1521	793	1811	929
22	1411	711	365	1019	526	1301	674	1593	831	1897	974
23	1476	743	381	1065	550	1360	705	1666	868	1983	1018
24	1541	776	398	1112	573	1419	736	1738	906	2069	1062
25	1606	808	415	1158	597	1478	766	1811	944	2155	1106
26	1671	840	431	1204	621	1537	797	1883	982	2242	1151
27	1736	873	448	1251	645	1596	828	1955	1019	2328	1195
28	1801	905	464	1297	669	1655	858	2028	1057	2414	1239
29	1866	937	481	1343	693	1714	889	2100	1095	2500	1283
30	1931	969	498	1389	717	1773	920	2172	1133	2586	1328
31	1996	1002	514	1436	741	1833	950	2245	1170	2673	1372
32	2061	1034	531	1482	765	1892	981	2317	1208	2759	1416
33	2126	1066	547	1528	789	1951	1012	2390	1246	2845	1460
34	2191	1099	564	1575	812	2010	1042	2462	1284	2931	1505
35	2256	1131	580	1621	836	2069	1073	2534	1321	3017	1549
36	2321	1163	597	1667	860	2128	1104	2607	1359	3104	1593
37	2386	1196	614	1714	884	2187	1134	2679	1397	3190	1637
38	2451	1228	630	1760	908	2246	1165	2752	1435	3276	1682
39	2516	1260	647	1806	932	2305	1196	2824	1472	3362	1726
40	2581	1292	663	1852	956	2364	1226	2896	1510	3448	1770

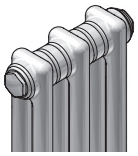
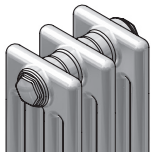
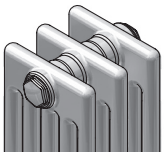
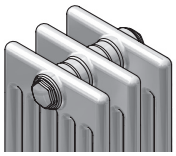
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		450									
											
Model		**K2045**		**K3045**		**K4045**		**K5045**		**K6045**	
Depth mm		62		100		136		173		210	
Exponent n		1,29		1,28		1,27		1,26		1,29	
Max. number of elements		44		44		44		44		44	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	142	73	206	106	264	137	323	168	385	197
5	306	177	91	257	132	329	171	404	210	481	247
6	371	213	109	308	159	395	205	485	252	577	296
7	436	248	127	360	185	461	239	565	295	673	345
8	501	284	145	411	212	527	273	646	337	769	395
9	566	319	164	462	238	593	307	727	379	865	444
10	631	354	182	513	265	658	341	807	421	961	493
11	696	390	200	565	291	724	375	888	463	1058	543
12	761	425	218	616	318	790	410	969	505	1154	592
13	826	461	236	667	344	856	444	1050	547	1250	641
14	891	496	254	719	371	922	478	1130	589	1346	691
15	956	531	273	770	397	987	512	1211	631	1442	740
16	1021	567	291	821	424	1053	546	1292	673	1538	789
17	1086	602	309	873	450	1119	580	1372	715	1634	839
18	1151	638	327	924	477	1185	614	1453	757	1730	888
19	1216	673	345	975	503	1251	649	1534	800	1826	937
20	1281	708	364	1026	529	1316	683	1614	842	1922	987
21	1346	744	382	1078	556	1382	717	1695	884	2019	1036
22	1411	779	400	1129	582	1448	751	1776	926	2115	1085
23	1476	815	418	1180	609	1514	785	1857	968	2211	1135
24	1541	850	436	1232	635	1580	819	1937	1010	2307	1184
25	1606	885	454	1283	662	1645	853	2018	1052	2403	1233
26	1671	921	473	1334	688	1711	887	2099	1094	2499	1283
27	1736	956	491	1386	715	1777	922	2179	1136	2595	1332
28	1801	992	509	1437	741	1843	956	2260	1178	2691	1382
29	1866	1027	527	1488	768	1909	990	2341	1220	2787	1431
30	1931	1062	545	1539	794	1974	1024	2421	1262	2883	1480
31	1996	1098	563	1591	821	2040	1058	2502	1304	2980	1530
32	2061	1133	582	1642	847	2106	1092	2583	1347	3076	1579
33	2126	1169	600	1693	874	2172	1126	2664	1389	3172	1628
34	2191	1204	618	1745	900	2238	1161	2744	1431	3268	1678
35	2256	1239	636	1796	927	2303	1195	2825	1473	3364	1727
36	2321	1275	654	1847	953	2369	1229	2906	1515	3460	1776
37	2386	1310	672	1899	980	2435	1263	2986	1557	3556	1826
38	2451	1346	691	1950	1006	2501	1297	3067	1599	3652	1875
39	2516	1381	709	2001	1033	2567	1331	3148	1641	3748	1924
40	2581	1416	727	2052	1059	2632	1365	3228	1683	3844	1974

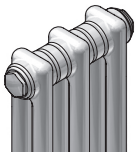
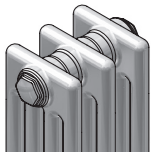
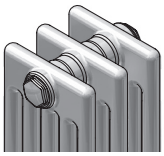
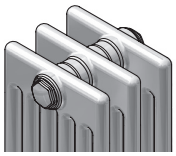
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	500									
										
Model	**K2050**		**K3050**		**K4050**		**K5050**		**K6050**	
Depth mm	62		100		136		173		210	
Exponent n	1,29		1,28		1,27		1,26		1,29	
Max. number of elements	44		44		44		44		44	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	155	79	226	116	290	150	356	186	424	218
5 / 306	193	99	282	145	363	188	445	232	530	272
6 / 371	232	119	338	174	435	226	534	278	636	327
7 / 436	271	139	395	203	508	263	623	325	742	381
8 / 501	309	159	451	232	580	301	712	371	848	435
9 / 566	348	178	507	261	653	338	801	418	954	490
10 / 631	386	198	563	291	725	376	890	464	1060	544
11 / 696	425	218	620	320	798	414	979	510	1166	599
12 / 761	464	238	676	349	870	451	1068	557	1272	653
13 / 826	502	258	732	378	943	489	1157	603	1378	707
14 / 891	541	277	789	407	1015	527	1246	650	1484	762
15 / 956	579	297	845	436	1088	564	1335	696	1590	816
16 / 1021	618	317	901	465	1160	602	1424	743	1696	871
17 / 1086	657	337	958	494	1233	639	1513	789	1802	925
18 / 1151	695	357	1014	523	1305	677	1602	835	1908	980
19 / 1216	734	377	1070	552	1378	715	1691	882	2014	1034
20 / 1281	772	396	1126	581	1450	752	1780	928	2120	1088
21 / 1346	811	416	1183	610	1523	790	1869	975	2226	1143
22 / 1411	850	436	1239	639	1595	827	1958	1021	2332	1197
23 / 1476	888	456	1295	668	1668	865	2047	1067	2438	1252
24 / 1541	927	476	1352	697	1740	903	2136	1114	2544	1306
25 / 1606	965	495	1408	726	1813	940	2225	1160	2650	1361
26 / 1671	1004	515	1464	755	1885	978	2314	1207	2756	1415
27 / 1736	1043	535	1521	784	1958	1015	2403	1253	2862	1469
28 / 1801	1081	555	1577	814	2030	1053	2492	1299	2968	1524
29 / 1866	1120	575	1633	843	2103	1091	2581	1346	3074	1578
30 / 1931	1158	595	1689	872	2175	1128	2670	1392	3180	1633
31 / 1996	1197	614	1746	901	2248	1166	2759	1439	3286	1687
32 / 2061	1236	634	1802	930	2320	1204	2848	1485	3392	1742
33 / 2126	1274	654	1858	959	2393	1241	2937	1531	3498	1796
34 / 2191	1313	674	1915	988	2465	1279	3026	1578	3604	1850
35 / 2256	1351	694	1971	1017	2538	1316	3115	1624	3710	1905
36 / 2321	1390	713	2027	1046	2610	1354	3204	1671	3816	1959
37 / 2386	1429	733	2084	1075	2683	1392	3293	1717	3922	2014
38 / 2451	1467	753	2140	1104	2755	1429	3382	1764	4028	2068
39 / 2516	1506	773	2196	1133	2828	1467	3471	1810	4134	2122
40 / 2581	1544	793	2252	1162	2900	1504	3560	1856	4240	2177
Warning: Weight over 100 kg										

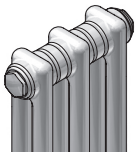
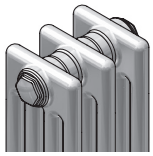
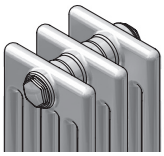
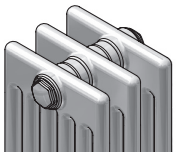
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		550									
											
Model		**K2055**		**K3055**		**K4055**		**K5055**		**K6055**	
Depth mm		62		100		136		173		210	
Exponent n		1,29		1,29		1,28		1,27		1,29	
Max. number of elements		44		44		44		44		44	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	168	86	246	126	317	163	390	202	464	238
5	306	210	108	307	157	396	204	487	252	580	298
6	371	252	129	368	189	476	245	584	303	696	357
7	436	294	151	430	220	555	286	682	353	812	417
8	501	336	172	491	252	634	327	779	404	928	476
9	566	378	194	552	283	713	368	876	454	1044	536
10	631	419	215	613	315	792	409	973	505	1160	596
11	696	461	237	675	346	872	450	1071	555	1276	655
12	761	503	258	736	378	951	490	1168	606	1392	715
13	826	545	280	797	409	1030	531	1265	656	1508	774
14	891	587	301	859	441	1109	572	1363	707	1624	834
15	956	629	323	920	472	1188	613	1460	757	1740	893
16	1021	671	344	981	504	1268	654	1557	808	1856	953
17	1086	713	366	1043	535	1347	695	1655	858	1972	1012
18	1151	755	387	1104	567	1426	736	1752	909	2088	1072
19	1216	797	409	1165	598	1505	777	1849	959	2204	1132
20	1281	838	430	1226	629	1584	817	1946	1009	2320	1191
21	1346	880	452	1288	661	1664	858	2044	1060	2436	1251
22	1411	922	473	1349	692	1743	899	2141	1110	2552	1310
23	1476	964	495	1410	724	1822	940	2238	1161	2668	1370
24	1541	1006	516	1472	755	1901	981	2336	1211	2784	1429
25	1606	1048	538	1533	787	1980	1022	2433	1262	2900	1489
26	1671	1090	559	1594	818	2060	1063	2530	1312	3016	1548
27	1736	1132	581	1656	850	2139	1104	2628	1363	3132	1608
28	1801	1174	602	1717	881	2218	1144	2725	1413	3248	1668
29	1866	1216	624	1778	913	2297	1185	2822	1464	3364	1727
30	1931	1257	645	1839	944	2376	1226	2919	1514	3480	1787
31	1996	1299	667	1901	976	2456	1267	3017	1565	3596	1846
32	2061	1341	688	1962	1007	2535	1308	3114	1615	3712	1906
33	2126	1383	710	2023	1039	2614	1349	3211	1666	3828	1965
34	2191	1425	731	2085	1070	2693	1390	3309	1716	3944	2025
35	2256	1467	753	2146	1102	2772	1431	3406	1767	4060	2084
36	2321	1509	774	2207	1133	2852	1471	3503	1817	4176	2144
37	2386	1551	796	2269	1164	2931	1512	3601	1868	4292	2204
38	2451	1593	817	2330	1196	3010	1553	3698	1918	4408	2263
39	2516	1635	839	2391	1227	3089	1594	3795	1969	4524	2323
40	2581	1676	860	2452	1259	3168	1635	3892	2019	4640	2382
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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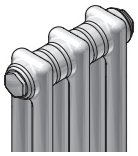
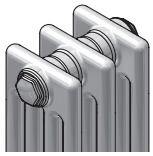
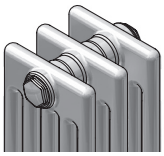
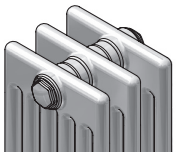
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		600									
											
Model		**K2060**		**K3060**		**K4060**		**K5060**		**K6060**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,29		1,29		1,28		1,27		1,29	
Max. number of elements		44		44		44		44		44	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	181	93	265	136	344	177	424	220	500	257
5	306	226	116	331	170	429	221	530	275	625	321
6	371	272	139	398	204	515	266	636	330	750	385
7	436	317	162	464	238	601	310	742	385	875	449
8	501	362	186	530	272	687	354	848	440	1000	513
9	566	407	209	596	306	773	399	954	495	1125	578
10	631	452	232	662	340	858	443	1060	550	1250	642
11	696	498	255	729	374	944	487	1166	605	1375	706
12	761	543	278	795	408	1030	531	1272	660	1500	770
13	826	588	302	861	442	1116	576	1378	715	1625	834
14	891	633	325	927	476	1202	620	1484	770	1750	898
15	956	678	348	993	510	1287	664	1590	825	1875	963
16	1021	724	371	1060	544	1373	708	1696	880	2000	1027
17	1086	769	395	1126	578	1459	753	1802	935	2125	1091
18	1151	814	418	1192	612	1545	797	1908	990	2250	1155
19	1216	859	441	1258	646	1631	841	2014	1045	2375	1219
20	1281	904	464	1324	680	1716	886	2120	1100	2500	1284
21	1346	950	487	1391	714	1802	930	2226	1155	2625	1348
22	1411	995	511	1457	748	1888	974	2332	1210	2750	1412
23	1476	1040	534	1523	782	1974	1018	2438	1265	2875	1476
24	1541	1085	557	1589	816	2060	1063	2544	1320	3000	1540
25	1606	1130	580	1655	850	2145	1107	2650	1375	3125	1604
26	1671	1176	603	1722	884	2231	1151	2756	1430	3250	1669
27	1736	1221	627	1788	918	2317	1196	2862	1485	3375	1733
28	1801	1266	650	1854	952	2403	1240	2968	1540	3500	1797
29	1866	1311	673	1920	986	2489	1284	3074	1595	3625	1861
30	1931	1356	696	1986	1020	2574	1328	3180	1650	3750	1925
31	1996	1402	719	2053	1054	2660	1373	3286	1705	3875	1990
32	2061	1447	743	2119	1088	2746	1417	3392	1760	4000	2054
33	2126	1492	766	2185	1122	2832	1461	3498	1815	4125	2118
34	2191	1537	789	2251	1156	2918	1506	3604	1870	4250	2182
35	2256	1582	812	2317	1190	3003	1550	3710	1925	4375	2246
36	2321	1628	835	2384	1224	3089	1594	3816	1980	4500	2310
37	2386	1673	859	2450	1258	3175	1638	3922	2035	4625	2375
38	2451	1718	882	2516	1292	3261	1683	4028	2090	4750	2439
39	2516	1763	905	2582	1326	3347	1727	4134	2145	4875	2503
40	2581	1808	928	2648	1360	3432	1771	4240	2200	5000	2567
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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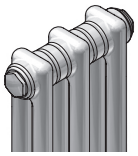
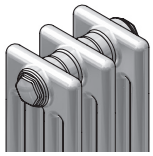
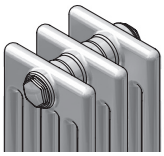
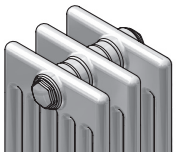
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	750									
										
Model	**K2075**		**K3075**		**K4075**		**K5075**		**K6075**	
Depth mm	62		100		136		173		210	
Exponent n	1,29		1,30		1,29		1,28		1,30	
Max. number of elements	44		44		44		44		44	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	224	115	323	165	424	218	520	268	616	315
5 / 306	279	143	404	206	530	272	650	335	770	393
6 / 371	335	172	485	247	636	327	780	403	924	472
7 / 436	391	201	565	289	742	381	910	470	1078	551
8 / 501	447	229	646	330	848	435	1040	537	1232	629
9 / 566	503	258	727	371	954	490	1170	604	1386	708
10 / 631	558	286	807	412	1060	544	1300	671	1540	787
11 / 696	614	315	888	453	1166	599	1430	738	1694	865
12 / 761	670	344	969	495	1272	653	1560	805	1848	944
13 / 826	726	372	1050	536	1378	707	1690	872	2002	1023
14 / 891	782	401	1130	577	1484	762	1820	939	2156	1101
15 / 956	837	430	1211	618	1590	816	1950	1006	2310	1180
16 / 1021	893	458	1292	660	1696	871	2080	1073	2464	1259
17 / 1086	949	487	1372	701	1802	925	2210	1141	2618	1337
18 / 1151	1005	516	1453	742	1908	980	2340	1208	2772	1416
19 / 1216	1061	544	1534	783	2014	1034	2470	1275	2926	1495
20 / 1281	1116	573	1614	824	2120	1088	2600	1342	3080	1573
21 / 1346	1172	602	1695	866	2226	1143	2730	1409	3234	1652
22 / 1411	1228	630	1776	907	2332	1197	2860	1476	3388	1730
23 / 1476	1284	659	1857	948	2438	1252	2990	1543	3542	1809
24 / 1541	1340	688	1937	989	2544	1306	3120	1610	3696	1888
25 / 1606	1395	716	2018	1030	2650	1361	3250	1677	3850	1966
26 / 1671	1451	745	2099	1072	2756	1415	3380	1744	4004	2045
27 / 1736	1507	774	2179	1113	2862	1469	3510	1811	4158	2124
28 / 1801	1563	802	2260	1154	2968	1524	3640	1879	4312	2202
29 / 1866	1619	831	2341	1195	3074	1578	3770	1946	4466	2281
30 / 1931	1674	859	2421	1237	3180	1633	3900	2013	4620	2360
31 / 1996	1730	888	2502	1278	3286	1687	4030	2080	4774	2438
32 / 2061	1786	917	2583	1319	3392	1742	4160	2147	4928	2517
33 / 2126	1842	945	2664	1360	3498	1796	4290	2214	5082	2596
34 / 2191	1898	974	2744	1401	3604	1850	4420	2281	5236	2674
35 / 2256	1953	1003	2825	1443	3710	1905	4550	2348	5390	2753
36 / 2321	2009	1031	2906	1484	3816	1959	4680	2415	5544	2832
37 / 2386	2065	1060	2986	1525	3922	2014	4810	2482	5698	2910
38 / 2451	2121	1089	3067	1566	4028	2068	4940	2549	5852	2989
39 / 2516	2177	1117	3148	1608	4134	2122	5070	2617	6006	3068
40 / 2581	2232	1146	3228	1649	4240	2177	5200	2684	6160	3146
Warning: Weight over 100 kg										

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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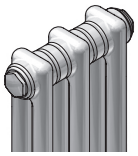
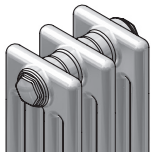
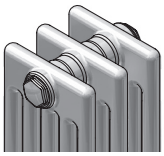
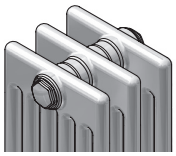
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	900									
										
Model	**K2090**		**K3090**		**K4090**		**K5090**		**K6090**	
Depth mm	62		100		136		173		210	
Exponent n	1,30		1,31		1,30		1,29		1,30	
Max. number of elements	44		44		44		44		44	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	268	137	381	193	500	255	616	316	732	374
5 / 306	335	171	476	242	625	319	770	395	915	467
6 / 371	402	205	571	290	750	383	924	474	1098	561
7 / 436	469	239	666	338	875	447	1078	553	1281	654
8 / 501	536	273	761	387	1000	511	1232	633	1464	748
9 / 566	603	308	856	435	1125	575	1386	712	1647	841
10 / 631	669	342	951	483	1250	638	1540	791	1830	935
11 / 696	736	376	1047	532	1375	702	1694	870	2013	1028
12 / 761	803	410	1142	580	1500	766	1848	949	2196	1122
13 / 826	870	444	1237	628	1625	830	2002	1028	2379	1215
14 / 891	937	478	1332	677	1750	894	2156	1107	2562	1309
15 / 956	1004	513	1427	725	1875	958	2310	1186	2745	1402
16 / 1021	1071	547	1522	773	2000	1022	2464	1265	2928	1496
17 / 1086	1138	581	1617	822	2125	1085	2618	1344	3111	1589
18 / 1151	1205	615	1712	870	2250	1149	2772	1423	3294	1682
19 / 1216	1272	649	1807	918	2375	1213	2926	1502	3477	1776
20 / 1281	1338	683	1902	966	2500	1277	3080	1581	3660	1869
21 / 1346	1405	718	1998	1015	2625	1341	3234	1660	3843	1963
22 / 1411	1472	752	2093	1063	2750	1405	3388	1739	4026	2056
23 / 1476	1539	786	2188	1111	2875	1468	3542	1819	4209	2150
24 / 1541	1606	820	2283	1160	3000	1532	3696	1898	4392	2243
25 / 1606	1673	854	2378	1208	3125	1596	3850	1977	4575	2337
26 / 1671	1740	888	2473	1256	3250	1660	4004	2056	4758	2430
27 / 1736	1807	923	2568	1305	3375	1724	4158	2135	4941	2524
28 / 1801	1874	957	2663	1353	3500	1788	4312	2214	5124	2617
29 / 1866	1941	991	2758	1401	3625	1852	4466	2293	5307	2711
30 / 1931	2008	1025	2853	1450	3750	1915	4620	2372	5490	2804
31 / 1996	2074	1059	2949	1498	3875	1979	4774	2451	5673	2898
32 / 2061	2141	1093	3044	1546	4000	2043	4928	2530	5856	2991
33 / 2126	2208	1128	3139	1595	4125	2107	5082	2609	6039	3085
34 / 2191	2275	1162	3234	1643	4250	2171	5236	2688	6222	3178
35 / 2256	2342	1196	3329	1691	4375	2235	5390	2767	6405	3272
36 / 2321	2409	1230	3424	1740	4500	2298	5544	2846	6588	3365
37 / 2386	2476	1264	3519	1788	4625	2362	5698	2925	6771	3458
38 / 2451	2543	1298	3614	1836	4750	2426	5852	3005	6954	3552
39 / 2516	2610	1333	3709	1885	4875	2490	6006	3084	7137	3645
40 / 2581	2676	1367	3804	1933	5000	2554	6160	3163	7320	3739
Warning: Weight over 100 kg										

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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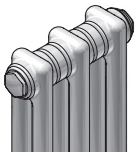
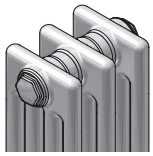
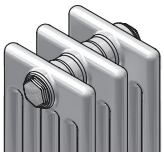
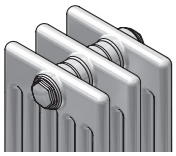
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1000									
											
Model		**K2100**		**K3100**		**K4100**		**K5100**		**K6100**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,30		1,32		1,31		1,30		1,30	
Max. number of elements		16		16		16		16		16	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	299	153	420	212	552	280	680	347	804	411
5	306	374	191	525	265	690	351	850	434	1005	513
6	371	449	229	630	318	828	421	1020	521	1206	616
7	436	523	267	735	372	966	491	1190	608	1407	719
8	501	598	305	840	425	1104	561	1360	695	1608	821
9	566	673	343	945	478	1242	631	1530	781	1809	924
10	631	747	382	1050	531	1380	701	1700	868	2010	1027
11	696	822	420	1155	584	1518	771	1870	955	2211	1129
12	761	897	458	1260	637	1656	841	2040	1042	2412	1232
13	826	972	496	1365	690	1794	912	2210	1129	2613	1335
14	891	1046	534	1470	743	1932	982	2380	1216	2814	1437
15	956	1121	572	1575	796	2070	1052	2550	1302	3015	1540
16	1021	1196	610	1680	849	2208	1122	2720	1389	3216	1643
17	1086	1270	649	1785	902	2346	1192	2890	1476	3417	1745
18	1151	1345	687	1890	955	2484	1262	3060	1563	3618	1848
19	1216	1420	725	1995	1009	2622	1332	3230	1650	3819	1951
20	1281	1494	763	2100	1062	2760	1402	3400	1737	4020	2053
21	1346	1569	801	2205	1115	2898	1473	3570	1823	4221	2156
22	1411	1644	839	2310	1168	3036	1543	3740	1910	4422	2259
23	1476	1719	878	2415	1221	3174	1613	3910	1997	4623	2361
24	1541	1793	916	2520	1274	3312	1683	4080	2084	4824	2464
25	1606	1868	954	2625	1327	3450	1753	4250	2171	5025	2567
26	1671	1943	992	2730	1380	3588	1823	4420	2258	5226	2669
27	1736	2017	1030	2835	1433	3726	1893	4590	2344	5427	2772
28	1801	2092	1068	2940	1486	3864	1963	4760	2431	5628	2875
29	1866	2167	1106	3045	1539	4002	2034	4930	2518	5829	2977
30	1931	2241	1145	3150	1592	4140	2104	5100	2605	6030	3080
31	1996	2316	1183	3255	1645	4278	2174	5270	2692	6231	3183
32	2061	2391	1221	3360	1699	4416	2244	5440	2779	6432	3285
33	2126	2466	1259	3465	1752	4554	2314	5610	2865	6633	3388
34	2191	2540	1297	3570	1805	4692	2384	5780	2952	6834	3491
35	2256	2615	1335	3675	1858	4830	2454	5950	3039	7035	3593
36	2321	2690	1374	3780	1911	4968	2524	6120	3126	7236	3696
37	2386	2764	1412	3885	1964	5106	2595	6290	3213	7437	3799
38	2451	2839	1450	3990	2017	5244	2665	6460	3300	7638	3901
39	2516	2914	1488	4095	2070	5382	2735	6630	3386	7839	4004
40	2581	2988	1526	4200	2123	5520	2805	6800	3473	8040	4107
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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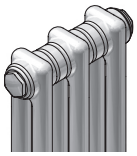
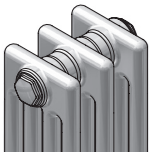
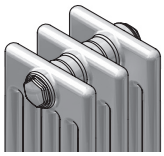
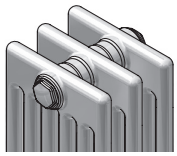
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	1100									
										
Model	**K2110**		**K3110**		**K4110**		**K5110**		**K6110**	
Depth mm	62		100		136		173		210	
Exponent n	1,30		1,32		1,32		1,31		1,30	
Max. number of elements	16		16		16		16		16	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	331	169	456	231	604	305	744	378	880	449
5 / 306	413	211	570	288	755	382	930	473	1100	562
6 / 371	496	253	684	346	906	458	1116	567	1320	674
7 / 436	579	295	798	403	1057	534	1302	662	1540	787
8 / 501	661	338	912	461	1208	611	1488	756	1760	899
9 / 566	744	380	1026	519	1359	687	1674	851	1980	1011
10 / 631	826	422	1140	576	1510	763	1860	945	2200	1124
11 / 696	909	464	1254	634	1661	840	2046	1040	2420	1236
12 / 761	992	506	1368	692	1812	916	2232	1134	2640	1348
13 / 826	1074	548	1482	749	1963	992	2418	1229	2860	1461
14 / 891	1157	591	1596	807	2114	1069	2604	1323	3080	1573
15 / 956	1239	633	1710	864	2265	1145	2790	1418	3300	1686
16 / 1021	1322	675	1824	922	2416	1221	2976	1512	3520	1798
17 / 1086	1405	717	1938	980	2567	1298	3162	1607	3740	1910
18 / 1151	1487	759	2052	1037	2718	1374	3348	1701	3960	2023
19 / 1216	1570	802	2166	1095	2869	1450	3534	1796	4180	2135
20 / 1281	1652	844	2280	1153	3020	1527	3720	1890	4400	2247
21 / 1346	1735	886	2394	1210	3171	1603	3906	1985	4620	2360
22 / 1411	1818	928	2508	1268	3322	1679	4092	2079	4840	2472
23 / 1476	1900	970	2622	1325	3473	1756	4278	2174	5060	2585
24 / 1541	1983	1013	2736	1383	3624	1832	4464	2268	5280	2697
25 / 1606	2065	1055	2850	1441	3775	1908	4650	2363	5500	2809
26 / 1671	2148	1097	2964	1498	3926	1985	4836	2457	5720	2922
27 / 1736	2231	1139	3078	1556	4077	2061	5022	2552	5940	3034
28 / 1801	2313	1181	3192	1614	4228	2137	5208	2646	6160	3146
29 / 1866	2396	1224	3306	1671	4379	2214	5394	2741	6380	3259
30 / 1931	2478	1266	3420	1729	4530	2290	5580	2835	6600	3371
31 / 1996	2561	1308	3534	1787	4681	2366	5766	2930	6820	3483
32 / 2061	2644	1350	3648	1844	4832	2443	5952	3024	7040	3596
33 / 2126	2726	1392	3762	1902	4983	2519	6138	3119	7260	3708
34 / 2191	2809	1434	3876	1959	5134	2595	6324	3213	7480	3821
35 / 2256	2891	1477	3990	2017	5285	2672	6510	3308	7700	3933
36 / 2321	2974	1519	4104	2075	5436	2748	6696	3403	7920	4045
37 / 2386	3057	1561	4218	2132	5587	2824	6882	3497	8140	4158
38 / 2451	3139	1603	4332	2190	5738	2901	7068	3592	8360	4270
39 / 2516	3222	1645	4446	2248	5889	2977	7254	3686	8580	4382
40 / 2581	3304	1688	4560	2305	6040	3053	7440	3781	8800	4495
Warning: Weight over 100 kg										

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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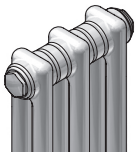
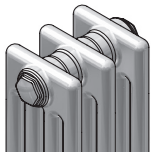
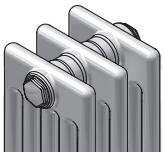
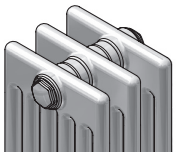
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1200									
											
Model		**K2120**		**K3120**		**K4120**		**K5120**		**K6120**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,30		1,33		1,32		1,31		1,30	
Max. number of elements		16		16		16		16		16	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	363	185	500	251	656	332	808	411	952	486
5	306	453	231	625	314	820	415	1010	513	1190	608
6	371	544	278	750	377	984	497	1212	616	1428	729
7	436	635	324	875	440	1148	580	1414	719	1666	851
8	501	725	370	1000	503	1312	663	1616	821	1904	973
9	566	816	416	1125	566	1476	746	1818	924	2142	1094
10	631	906	463	1250	629	1640	829	2020	1026	2380	1216
11	696	997	509	1375	692	1804	912	2222	1129	2618	1337
12	761	1088	555	1500	754	1968	995	2424	1232	2856	1459
13	826	1178	602	1625	817	2132	1078	2626	1334	3094	1580
14	891	1269	648	1750	880	2296	1161	2828	1437	3332	1702
15	956	1359	694	1875	943	2460	1244	3030	1540	3570	1823
16	1021	1450	740	2000	1006	2624	1326	3232	1642	3808	1945
17	1086	1541	787	2125	1069	2788	1409	3434	1745	4046	2067
18	1151	1631	833	2250	1132	2952	1492	3636	1848	4284	2188
19	1216	1722	879	2375	1194	3116	1575	3838	1950	4522	2310
20	1281	1812	926	2500	1257	3280	1658	4040	2053	4760	2431
21	1346	1903	972	2625	1320	3444	1741	4242	2156	4998	2553
22	1411	1994	1018	2750	1383	3608	1824	4444	2258	5236	2674
23	1476	2084	1064	2875	1446	3772	1907	4646	2361	5474	2796
24	1541	2175	1111	3000	1509	3936	1990	4848	2463	5712	2918
25	1606	2265	1157	3125	1572	4100	2073	5050	2566	5950	3039
26	1671	2356	1203	3250	1634	4264	2156	5252	2669	6188	3161
27	1736	2447	1249	3375	1697	4428	2238	5454	2771	6426	3282
28	1801	2537	1296	3500	1760	4592	2321	5656	2874	6664	3404
29	1866	2628	1342	3625	1823	4756	2404	5858	2977	6902	3525
30	1931	2718	1388	3750	1886	4920	2487	6060	3079	7140	3647
31	1996	2809	1435	3875	1949	5084	2570	6262	3182	7378	3768
32	2061	2900	1481	4000	2012	5248	2653	6464	3285	7616	3890
33	2126	2990	1527	4125	2075	5412	2736	6666	3387	7854	4012
34	2191	3081	1573	4250	2137	5576	2819	6868	3490	8092	4133
35	2256	3171	1620	4375	2200	5740	2902	7070	3593	8330	4255
36	2321	3262	1666	4500	2263	5904	2985	7272	3695	8568	4376
37	2386	3353	1712	4625	2326	6068	3068	7474	3798	8806	4498
38	2451	3443	1758	4750	2389	6232	3150	7676	3900	9044	4619
39	2516	3534	1805	4875	2452	6396	3233	7878	4003	9282	4741
40	2581	3624	1851	5000	2515	6560	3316	8080	4106	9520	4863
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

1) This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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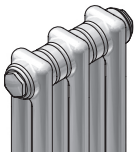
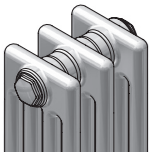
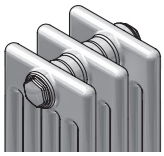
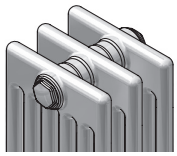
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	1500									
										
Model	**K2150**		**K3150**		**K4150**		**K5150**		**K6150**	
Depth mm	62		100		136		173		210	
Exponent n	1,33		1,33		1,31		1,30		1,31	
Max. number of elements	16		16		16		16		16	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	460	231	636	320	808	411	988	505	1172	596
5 / 306	575	289	795	400	1010	513	1235	631	1465	744
6 / 371	690	347	954	480	1212	616	1482	757	1758	893
7 / 436	805	405	1113	560	1414	719	1729	883	2051	1042
8 / 501	920	463	1272	640	1616	821	1976	1009	2344	1191
9 / 566	1035	521	1431	720	1818	924	2223	1135	2637	1340
10 / 631	1150	578	1590	800	2020	1026	2470	1262	2930	1489
11 / 696	1265	636	1749	880	2222	1129	2717	1388	3223	1638
12 / 761	1380	694	1908	960	2424	1232	2964	1514	3516	1787
13 / 826	1495	752	2067	1040	2626	1334	3211	1640	3809	1936
14 / 891	1610	810	2226	1119	2828	1437	3458	1766	4102	2084
15 / 956	1725	868	2385	1199	3030	1540	3705	1892	4395	2233
16 / 1021	1840	925	2544	1279	3232	1642	3952	2019	4688	2382
17 / 1086	1955	983	2703	1359	3434	1745	4199	2145	4981	2531
18 / 1151	2070	1041	2862	1439	3636	1848	4446	2271	5274	2680
19 / 1216	2185	1099	3021	1519	3838	1950	4693	2397	5567	2829
20 / 1281	2300	1157	3180	1599	4040	2053	4940	2523	5860	2978
21 / 1346	2415	1215	3339	1679	4242	2156	5187	2649	6153	3127
22 / 1411	2530	1272	3498	1759	4444	2258	5434	2776	6446	3275
23 / 1476	2645	1330	3657	1839	4646	2361	5681	2902	6739	3424
24 / 1541	2760	1388	3816	1919	4848	2463	5928	3028	7032	3573
25 / 1606	2875	1446	3975	1999	5050	2566	6175	3154	7325	3722
26 / 1671	2990	1504	4134	2079	5252	2669	6422	3280	7618	3871
27 / 1736	3105	1562	4293	2159	5454	2771	6669	3406	7911	4020
28 / 1801	3220	1619	4452	2239	5656	2874	6916	3533	8204	4169
29 / 1866	3335	1677	4611	2319	5858	2977	7163	3659	8497	4318
30 / 1931	3450	1735	4770	2399	6060	3079	7410	3785	8790	4467
31 / 1996	3565	1793	4929	2479	6262	3182	7657	3911	9083	4615
32 / 2061	3680	1851	5088	2559	6464	3285	7904	4037	9376	4764
33 / 2126	3795	1909	5247	2639	6666	3387	8151	4163	9669	4913
34 / 2191	3910	1966	5406	2719	6868	3490	8398	4289	9962	5062
35 / 2256	4025	2024	5565	2799	7070	3593	8645	4416	10255	5211
36 / 2321	4140	2082	5724	2879	7272	3695	8892	4542	10548	5360
37 / 2386	4255	2140	5883	2959	7474	3798	9139	4668	10841	5509
38 / 2451	4370	2198	6042	3039	7676	3900	9386	4794	11134	5658
39 / 2516	4485	2256	6201	3119	7878	4003	9633	4920	11427	5807
40 / 2581	4600	2313	6360	3199	8080	4106	9880	5046	11720	5955
Warning: Weight over 100 kg										

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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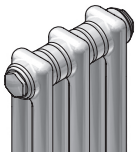
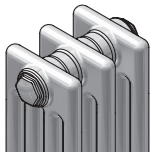
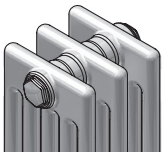
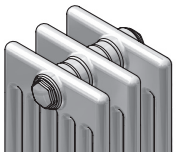
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		1800									
											
Model		**K2180**		**K3180**		**K4180**		**K5180**		**K6180**	
Depth mm		62		100		136		173		210	
Exponent n		1,35		1,34		1,31		1,29		1,32	
Max. number of elements		16		16		16		16		16	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	564	281	768	384	960	488	1172	602	1396	706
5	306	705	351	960	480	1200	610	1465	752	1745	882
6	371	846	421	1152	576	1440	732	1758	903	2094	1059
7	436	987	491	1344	672	1680	854	2051	1053	2443	1235
8	501	1128	561	1536	768	1920	976	2344	1203	2792	1411
9	566	1269	632	1728	865	2160	1098	2637	1354	3141	1588
10	631	1410	702	1920	961	2400	1220	2930	1504	3490	1764
11	696	1551	772	2112	1057	2640	1341	3223	1655	3839	1941
12	761	1692	842	2304	1153	2880	1463	3516	1805	4188	2117
13	826	1833	912	2496	1249	3120	1585	3809	1956	4537	2294
14	891	1974	983	2688	1345	3360	1707	4102	2106	4886	2470
15	956	2115	1053	2880	1441	3600	1829	4395	2256	5235	2646
16	1021	2256	1123	3072	1537	3840	1951	4688	2407	5584	2823
17	1086	2397	1193	3264	1633	4080	2073	4981	2557	5933	2999
18	1151	2538	1263	3456	1729	4320	2195	5274	2708	6282	3176
19	1216	2679	1333	3648	1825	4560	2317	5567	2858	6631	3352
20	1281	2820	1404	3840	1921	4800	2439	5860	3009	6980	3529
21	1346	2961	1474	4032	2017	5040	2561	6153	3159	7329	3705
22	1411	3102	1544	4224	2113	5280	2683	6446	3310	7678	3881
23	1476	3243	1614	4416	2209	5520	2805	6739	3460	8027	4058
24	1541	3384	1684	4608	2305	5760	2927	7032	3610	8376	4234
25	1606	3525	1755	4800	2402	6000	3049	7325	3761	8725	4411
26	1671	3666	1825	4992	2498	6240	3171	7618	3911	9074	4587
27	1736	3807	1895	5184	2594	6480	3293	7911	4062	9423	4764
28	1801	3948	1965	5376	2690	6720	3415	8204	4212	9772	4940
29	1866	4089	2035	5568	2786	6960	3537	8497	4363	10121	5116
30	1931	4230	2105	5760	2882	7200	3659	8790	4513	10470	5293
31	1996	4371	2176	5952	2978	7440	3781	9083	4663	10819	5469
32	2061	4512	2246	6144	3074	7680	3903	9376	4814	11168	5646
33	2126	4653	2316	6336	3170	7920	4024	9669	4964	11517	5822
34	2191	4794	2386	6528	3266	8160	4146	9962	5115	11866	5999
35	2256	4935	2456	6720	3362	8400	4268	10255	5265	12215	6175
36	2321	5076	2527	6912	3458	8640	4390	10548	5416	12564	6351
37	2386	5217	2597	7104	3554	8880	4512	10841	5566	12913	6528
38	2451	5358	2667	7296	3650	9120	4634	11134	5716	13262	6704
39	2516	5499	2737	7488	3746	9360	4756	11427	5867	13611	6881
40	2581	5640	2807	7680	3842	9600	4878	11720	6017	13960	7057
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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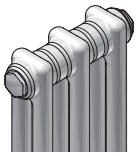
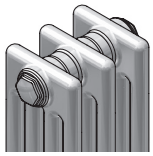
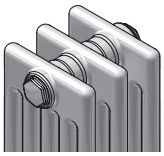
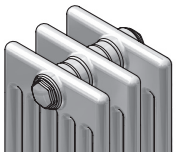
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		2000									
											
Model		**K2200**		**K3200**		**K4200**		**K5200**		**K6200**	
Depth mm		62		100		136		173		210	
Exponent n		1,34		1,33		1,32		1,31		1,31	
Max. number of elements		16		16		16		16		16	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	628	314	856	430	1064	538	1292	657	1544	785
5	306	785	393	1070	538	1330	672	1615	821	1930	981
6	371	942	471	1284	646	1596	807	1938	985	2316	1177
7	436	1099	550	1498	753	1862	941	2261	1149	2702	1373
8	501	1256	628	1712	861	2128	1076	2584	1313	3088	1569
9	566	1413	707	1926	969	2394	1210	2907	1477	3474	1765
10	631	1570	786	2140	1076	2660	1345	3230	1641	3860	1961
11	696	1727	864	2354	1184	2926	1479	3553	1805	4246	2158
12	761	1884	943	2568	1291	3192	1614	3876	1970	4632	2354
13	826	2041	1021	2782	1399	3458	1748	4199	2134	5018	2550
14	891	2198	1100	2996	1507	3724	1883	4522	2298	5404	2746
15	956	2355	1178	3210	1614	3990	2017	4845	2462	5790	2942
16	1021	2512	1257	3424	1722	4256	2151	5168	2626	6176	3138
17	1086	2669	1335	3638	1830	4522	2286	5491	2790	6562	3334
18	1151	2826	1414	3852	1937	4788	2420	5814	2954	6948	3531
19	1216	2983	1492	4066	2045	5054	2555	6137	3118	7334	3727
20	1281	3140	1571	4280	2152	5320	2689	6460	3283	7720	3923
21	1346	3297	1650	4494	2260	5586	2824	6783	3447	8106	4119
22	1411	3454	1728	4708	2368	5852	2958	7106	3611	8492	4315
23	1476	3611	1807	4922	2475	6118	3093	7429	3775	8878	4511
24	1541	3768	1885	5136	2583	6384	3227	7752	3939	9264	4707
25	1606	3925	1964	5350	2691	6650	3362	8075	4103	9650	4904
26	1671	4082	2042	5564	2798	6916	3496	8398	4267	10036	5100
27	1736	4239	2121	5778	2906	7182	3631	8721	4431	10422	5296
28	1801	4396	2199	5992	3013	7448	3765	9044	4596	10808	5492
29	1866	4553	2278	6206	3121	7714	3900	9367	4760	11194	5688
30	1931	4710	2357	6420	3229	7980	4034	9690	4924	11580	5884
31	1996	4867	2435	6634	3336	8246	4169	10013	5088	11966	6080
32	2061	5024	2514	6848	3444	8512	4303	10336	5252	12352	6277
33	2126	5181	2592	7062	3552	8778	4437	10659	5416	12738	6473
34	2191	5338	2671	7276	3659	9044	4572	10982	5580	13124	6669
35	2256	5495	2749	7490	3767	9310	4706	11305	5745	13510	6865
36	2321	5652	2828	7704	3874	9576	4841	11628	5909	13896	7061
37	2386	5809	2906	7918	3982	9842	4975	11951	6073	14282	7257
38	2451	5966	2985	8132	4090	10108	5110	12274	6237	14668	7453
39	2516	6123	3063	8346	4197	10374	5244	12597	6401	15054	7650
40	2581	6280	3142	8560	4305	10640	5379	12920	6565	15440	7846
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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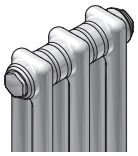
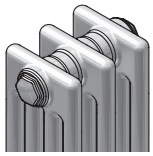
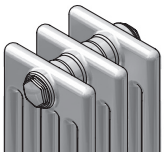
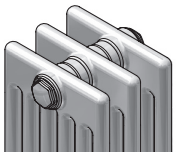
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height	mm	2200									
											
Model		**K2220**		**K3220**		**K4220**		**K5220**		**K6220**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,34		1,33		1,32		1,31		1,31	
Max. number of elements		16		16		16		16		16	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	692	346	940	473	1164	588	1420	722	1692	860
5	306	865	433	1175	591	1455	736	1775	902	2115	1075
6	371	1038	519	1410	709	1746	883	2130	1082	2538	1290
7	436	1211	606	1645	827	2037	1030	2485	1263	2961	1505
8	501	1384	692	1880	945	2328	1177	2840	1443	3384	1720
9	566	1557	779	2115	1064	2619	1324	3195	1624	3807	1934
10	631	1730	866	2350	1182	2910	1471	3550	1804	4230	2149
11	696	1903	952	2585	1300	3201	1618	3905	1984	4653	2364
12	761	2076	1039	2820	1418	3492	1765	4260	2165	5076	2579
13	826	2249	1125	3055	1536	3783	1912	4615	2345	5499	2794
14	891	2422	1212	3290	1655	4074	2059	4970	2525	5922	3009
15	956	2595	1298	3525	1773	4365	2207	5325	2706	6345	3224
16	1021	2768	1385	3760	1891	4656	2354	5680	2886	6768	3439
17	1086	2941	1471	3995	2009	4947	2501	6035	3067	7191	3654
18	1151	3114	1558	4230	2127	5238	2648	6390	3247	7614	3869
19	1216	3287	1645	4465	2246	5529	2795	6745	3427	8037	4084
20	1281	3460	1731	4700	2364	5820	2942	7100	3608	8460	4299
21	1346	3633	1818	4935	2482	6111	3089	7455	3788	8883	4514
22	1411	3806	1904	5170	2600	6402	3236	7810	3969	9306	4729
23	1476	3979	1991	5405	2718	6693	3383	8165	4149	9729	4944
24	1541	4152	2077	5640	2836	6984	3531	8520	4329	10152	5159
25	1606	4325	2164	5875	2955	7275	3678	8875	4510	10575	5374
26	1671	4498	2250	6110	3073	7566	3825	9230	4690	10998	5589
27	1736	4671	2337	6345	3191	7857	3972	9585	4871	11421	5803
28	1801	4844	2424	6580	3309	8148	4119	9940	5051	11844	6018
29	1866	5017	2510	6815	3427	8439	4266	10295	5231	12267	6233
30	1931	5190	2597	7050	3546	8730	4413	10650	5412	12690	6448
31	1996	5363	2683	7285	3664	9021	4560	11005	5592	13113	6663
32	2061	5536	2770	7520	3782	9312	4707	11360	5772	13536	6878
33	2126	5709	2856	7755	3900	9603	4855	11715	5953	13959	7093
34	2191	5882	2943	7990	4018	9894	5002	12070	6133	14382	7308
35	2256	6055	3029	8225	4136	10185	5149	12425	6314	14805	7523
36	2321	6228	3116	8460	4255	10476	5296	12780	6494	15228	7738
37	2386	6401	3203	8695	4373	10767	5443	13135	6674	15651	7953
38	2451	6574	3289	8930	4491	11058	5590	13490	6855	16074	8168
39	2516	6747	3376	9165	4609	11349	5737	13845	7035	16497	8383
40	2581	6920	3462	9400	4727	11640	5884	14200	7216	16920	8598
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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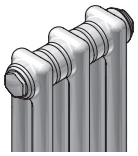
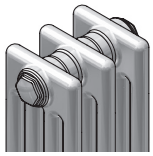
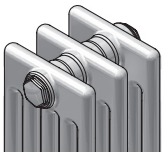
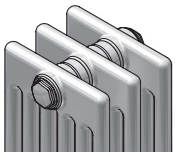
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm	2500									
										
Model	**K2250**		**K3250**		**K4250**		**K5250**		**K6250**	
Depth mm	62		100		136		173		210	
Exponent n	1,33		1,33		1,32		1,31		1,30	
Max. number of elements	16		16		16		16		16	
Length[1)]	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements / mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4 / 241	780	392	1056	531	1320	667	1612	819	1924	983
5 / 306	975	490	1320	664	1650	834	2015	1024	2405	1228
6 / 371	1170	588	1584	797	1980	1001	2418	1229	2886	1474
7 / 436	1365	686	1848	929	2310	1168	2821	1433	3367	1720
8 / 501	1560	785	2112	1062	2640	1335	3224	1638	3848	1965
9 / 566	1755	883	2376	1195	2970	1501	3627	1843	4329	2211
10 / 631	1950	981	2640	1328	3300	1668	4030	2048	4810	2457
11 / 696	2145	1079	2904	1460	3630	1835	4433	2253	5291	2702
12 / 761	2340	1177	3168	1593	3960	2002	4836	2457	5772	2948
13 / 826	2535	1275	3432	1726	4290	2169	5239	2662	6253	3194
14 / 891	2730	1373	3696	1859	4620	2336	5642	2867	6734	3440
15 / 956	2925	1471	3960	1992	4950	2502	6045	3072	7215	3685
16 / 1021	3120	1569	4224	2124	5280	2669	6448	3276	7696	3931
17 / 1086	3315	1667	4488	2257	5610	2836	6851	3481	8177	4177
18 / 1151	3510	1765	4752	2390	5940	3003	7254	3686	8658	4422
19 / 1216	3705	1863	5016	2523	6270	3170	7657	3891	9139	4668
20 / 1281	3900	1961	5280	2655	6600	3336	8060	4096	9620	4914
21 / 1346	4095	2059	5544	2788	6930	3503	8463	4300	10101	5159
22 / 1411	4290	2158	5808	2921	7260	3670	8866	4505	10582	5405
23 / 1476	4485	2256	6072	3054	7590	3837	9269	4710	11063	5651
24 / 1541	4680	2354	6336	3186	7920	4004	9672	4915	11544	5896
25 / 1606	4875	2452	6600	3319	8250	4171	10075	5120	12025	6142
26 / 1671	5070	2550	6864	3452	8580	4337	10478	5324	12506	6388
27 / 1736	5265	2648	7128	3585	8910	4504	10881	5529	12987	6633
28 / 1801	5460	2746	7392	3718	9240	4671	11284	5734	13468	6879
29 / 1866	5655	2844	7656	3850	9570	4838	11687	5939	13949	7125
30 / 1931	5850	2942	7920	3983	9900	5005	12090	6143	14430	7370
31 / 1996	6045	3040	8184	4116	10230	5171	12493	6348	14911	7616
32 / 2061	6240	3138	8448	4249	10560	5338	12896	6553	15392	7862
33 / 2126	6435	3236	8712	4381	10890	5505	13299	6758	15873	8107
34 / 2191	6630	3334	8976	4514	11220	5672	13702	6963	16354	8353
35 / 2256	6825	3432	9240	4647	11550	5839	14105	7167	16835	8599
36 / 2321	7020	3530	9504	4780	11880	6006	14508	7372	17316	8845
37 / 2386	7215	3629	9768	4912	12210	6172	14911	7577	17797	9090
38 / 2451	7410	3727	10032	5045	12540	6339	15314	7782	18278	9336
39 / 2516	7605	3825	10296	5178	12870	6506	15717	7986	18759	9582
40 / 2581	7800	3923	10560	5311	13200	6673	16120	8191	19240	9827
Warning: Weight over 100 kg										

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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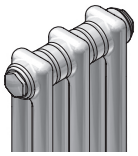
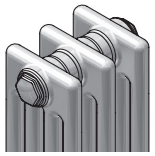
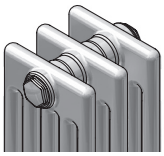
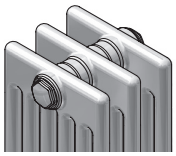
Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		2800									
											
Model		**K2280**		**K3280**		**K4280**		**K5280**		**K6280**	
Depth mm		62		100		136		173		210	
Exponent n		1,32		1,33		1,32		1,31		1,30	
Max. number of elements		16		16		16		16		14	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	876	443	1160	583	1500	758	1832	931	2148	1097
5	306	1095	554	1450	729	1875	948	2290	1164	2685	1371
6	371	1314	664	1740	875	2250	1137	2748	1396	3222	1646
7	436	1533	775	2030	1021	2625	1327	3206	1629	3759	1920
8	501	1752	886	2320	1167	3000	1517	3664	1862	4296	2194
9	566	1971	996	2610	1313	3375	1706	4122	2095	4833	2469
10	631	2190	1107	2900	1458	3750	1896	4580	2327	5370	2743
11	696	2409	1218	3190	1604	4125	2085	5038	2560	5907	3017
12	761	2628	1329	3480	1750	4500	2275	5496	2793	6444	3291
13	826	2847	1439	3770	1896	4875	2464	5954	3025	6981	3566
14	891	3066	1550	4060	2042	5250	2654	6412	3258	7518	3840
15	956	3285	1661	4350	2188	5625	2844	6870	3491	8055	4114
16	1021	3504	1771	4640	2334	6000	3033	7328	3724	8592	4389
17	1086	3723	1882	4930	2479	6375	3223	7786	3956	9129	4663
18	1151	3942	1993	5220	2625	6750	3412	8244	4189	9666	4937
19	1216	4161	2103	5510	2771	7125	3602	8702	4422	10203	5211
20	1281	4380	2214	5800	2917	7500	3791	9160	4655	10740	5486
21	1346	4599	2325	6090	3063	7875	3981	9618	4887	11277	5760
22	1411	4818	2436	6380	3209	8250	4171	10076	5120	11814	6034
23	1476	5037	2546	6670	3354	8625	4360	10534	5353	12351	6309
24	1541	5256	2657	6960	3500	9000	4550	10992	5585	12888	6583
25	1606	5475	2768	7250	3646	9375	4739	11450	5818	13425	6857
26	1671	5694	2878	7540	3792	9750	4929	11908	6051	13962	7131
27	1736	5913	2989	7830	3938	10125	5118	12366	6284	14499	7406
28	1801	6132	3100	8120	4084	10500	5308	12824	6516	15036	7680
29	1866	6351	3211	8410	4230	10875	5498	13282	6749	15573	7954
30	1931	6570	3321	8700	4375	11250	5687	13740	6982	16110	8229
31	1996	6789	3432	8990	4521	11625	5877	14198	7215	16647	8503
32	2061	7008	3543	9280	4667	12000	6066	14656	7447	17184	8777
33	2126	7227	3653	9570	4813	12375	6256	15114	7680	17721	9051
34	2191	7446	3764	9860	4959	12750	6445	15572	7913	18258	9326
35	2256	7665	3875	10150	5105	13125	6635	16030	8145	18795	9600
36	2321	7884	3986	10440	5250	13500	6825	16488	8378	19332	9874
37	2386	8103	4096	10730	5396	13875	7014	16946	8611	19869	10149
38	2451	8322	4207	11020	5542	14250	7204	17404	8844	20406	10423
39	2516	8541	4318	11310	5688	14625	7393	17862	9076	20943	10697
40	2581	8760	4428	11600	5834	15000	7583	18320	9309	21480	10971
Warning: Weight over 100 kg											

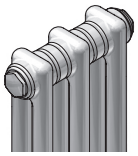
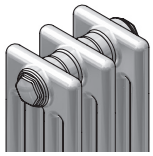
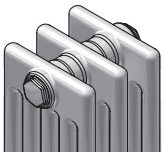
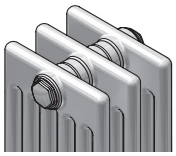
Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Φ_s = Standard thermal output according to EN 442 (ΔT 50 K: 75/65/20°C)

Height mm		3000									
											
Model		**K2300**		**K3300**		**K4300**		**K5300**		**K6300**	
Depth	mm	62		100		136		173		210	
Exponent	n	1,32		1,33		1,32		1,31		1,30	
Max. number of elements		16		16		16		16		14	
Length[1)]		ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K	ΔT=50K	ΔT=30K
Elements	mm	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt	Watt
4	241	940	475	1244	626	1604	811	1960	996	2300	1175
5	306	1175	594	1555	782	2005	1014	2450	1245	2875	1468
6	371	1410	713	1866	938	2406	1216	2940	1494	3450	1762
7	436	1645	832	2177	1095	2807	1419	3430	1743	4025	2056
8	501	1880	950	2488	1251	3208	1622	3920	1992	4600	2350
9	566	2115	1069	2799	1408	3609	1824	4410	2241	5175	2643
10	631	2350	1188	3110	1564	4010	2027	4900	2490	5750	2937
11	696	2585	1307	3421	1720	4411	2230	5390	2739	6325	3231
12	761	2820	1426	3732	1877	4812	2433	5880	2988	6900	3524
13	826	3055	1544	4043	2033	5213	2635	6370	3237	7475	3818
14	891	3290	1663	4354	2190	5614	2838	6860	3486	8050	4112
15	956	3525	1782	4665	2346	6015	3041	7350	3735	8625	4405
16	1021	3760	1901	4976	2503	6416	3243	7840	3984	9200	4699
17	1086	3995	2020	5287	2659	6817	3446	8330	4233	9775	4993
18	1151	4230	2138	5598	2815	7218	3649	8820	4482	10350	5286
19	1216	4465	2257	5909	2972	7619	3852	9310	4731	10925	5580
20	1281	4700	2376	6220	3128	8020	4054	9800	4980	11500	5874
21	1346	4935	2495	6531	3285	8421	4257	10290	5229	12075	6168
22	1411	5170	2614	6842	3441	8822	4460	10780	5478	12650	6461
23	1476	5405	2732	7153	3597	9223	4662	11270	5727	13225	6755
24	1541	5640	2851	7464	3754	9624	4865	11760	5976	13800	7049
25	1606	5875	2970	7775	3910	10025	5068	12250	6225	14375	7342
26	1671	6110	3089	8086	4067	10426	5271	12740	6474	14950	7636
27	1736	6345	3208	8397	4223	10827	5473	13230	6723	15525	7930
28	1801	6580	3326	8708	4379	11228	5676	13720	6972	16100	8223
29	1866	6815	3445	9019	4536	11629	5879	14210	7221	16675	8517
30	1931	7050	3564	9330	4692	12030	6081	14700	7470	17250	8811
31	1996	7285	3683	9641	4849	12431	6284	15190	7719	17825	9105
32	2061	7520	3802	9952	5005	12832	6487	15680	7968	18400	9398
33	2126	7755	3920	10263	5161	13233	6690	16170	8217	18975	9692
34	2191	7990	4039	10574	5318	13634	6892	16660	8466	19550	9986
35	2256	8225	4158	10885	5474	14035	7095	17150	8715	20125	10279
36	2321	8460	4277	11196	5631	14436	7298	17640	8964	20700	10573
37	2386	8695	4396	11507	5787	14837	7500	18130	9213	21275	10867
38	2451	8930	4514	11818	5943	15238	7703	18620	9462	21850	11160
39	2516	9165	4633	12129	6100	15639	7906	19110	9711	22425	11454
40	2581	9400	4752	12440	6256	16040	8109	19600	9960	23000	11748
Warning: Weight over 100 kg											

Quick conversion guide for different operating temperatures:
Multiply the ΔT=50K output by 0.80 for 70/55/20°C, by 0.73 for 70/50/20°C, by 0.51 for 55/45/20°C

[1)] This is the nominal length. For the Overall length, the connection dimensions need to be included. See pages 54 - 63.

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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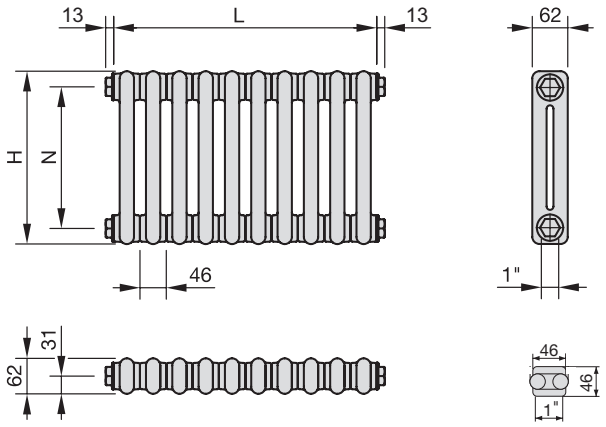
Model 2-column



H = Height
L = Length = Elements x 46 mm
N = Connection spacing = H - 58 mm
T = Depth of radiator
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

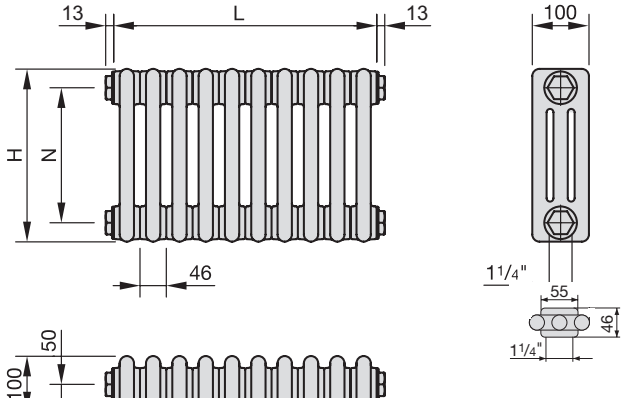
Technical specifications per element

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
2019	177	119	62	0.02	0.3	0.3	30	1.0	1.26	14.5	17.0	8.0
2026	260	202	62	0.04	0.3	0.5	25	2.0	1.25	21.1	25.0	11.0
2030	292	234	62	0.04	0.4	0.5	25	2.0	1.24	23.6	28.0	12.0
2035	342	284	62	0.05	0.4	0.6	24	2.0	1.24	27.5	33.0	14.0
2040	392	334	62	0.06	0.4	0.7	25	3.0	1.24	31.2	37.0	16.0
2045	442	384	62	0.07	0.5	0.7	24	3.0	1.24	34.9	42.0	18.0
2050	492	434	62	0.07	0.5	0.8	23	3.0	1.25	38.4	46.0	20.0
2055	542	484	62	0.08	0.6	0.9	23	4.0	1.25	41.9	50.0	22.0
2060	592	534	62	0.09	0.6	1.0	23	4.0	1.25	45.3	54.0	24.0
2075	742	684	62	0.11	0.7	1.2	22	5.0	1.25	55.0	65.0	29.0
2090	892	834	62	0.14	0.8	1.4	22	5.0	1.25	63.9	76.0	33.0
2100	992	934	62	0.15	0.9	1.5	22	6.0	1.25	69.5	83.0	36.0
2110	1092	1034	62	0.17	1.0	1.7	22	6.0	1.25	74.7	89.0	39.0
2120	1192	1134	62	0.18	1.1	1.8	22	7.0	1.26	82.7	98.0	43.0
2150	1492	1434	62	0.23	1.3	2.3	23	9.0	1.28	104.0	123.0	54.0
2180	1792	1734	62	0.28	1.5	2.7	23	11.0	1.31	124.0	147.0	63.0
2200	1992	1934	62	0.31	1.7	3.0	23	12.0	1.31	138.0	163.0	70.0
2220	2192	2134	62	0.34	1.9	3.3	23	13.0	1.31	151.0	179.0	77.0
2250	2492	2434	62	0.39	2.1	3.7	23	15.0	1.30	171.0	202.0	87.0
2280	2792	2734	62	0.44	2.4	4.2	23	16.0	1.30	189.0	224.0	97.0
2300	2992	2934	62	0.47	2.5	4.4	23	17.0	1.30	201.0	238.0	103.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Model 3-column



H = Height
L = Length = Elements x 46 mm
N = Connection spacing = H - 66 mm
T = Depth of radiator
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

Technical specifications per element

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
3019	185	119	100	0.04	0.4	0.5	23	2.0	1.27	20.1	24.0	10.0
3026	260	194	100	0.06	0.5	0.7	21	2.0	1.25	27.9	33.0	15.0
3030	300	234	100	0.07	0.6	0.8	20	3.0	1.25	32.0	38.0	17.0
3035	350	284	100	0.08	0.6	0.9	20	3.0	1.25	37.0	44.0	19.0
3040	400	334	100	0.09	0.7	1.0	19	4.0	1.25	41.9	50.0	22.0
3045	450	384	100	0.10	0.7	1.1	19	4.0	1.25	46.8	56.0	25.0
3050	500	434	100	0.11	0.8	1.2	18	4.0	1.25	51.6	61.0	27.0
3055	550	484	100	0.12	0.9	1.3	18	5.0	1.26	56.3	67.0	29.0
3060	600	534	100	0.14	0.9	1.4	18	5.0	1.26	60.9	72.0	32.0
3075	750	684	100	0.17	1.1	1.7	18	6.0	1.26	74.3	88.0	39.0
3090	900	834	100	0.21	1.3	2.1	18	7.0	1.27	87.0	103.0	45.0
3100	1000	934	100	0.23	1.4	2.3	18	8.0	1.27	95.1	113.0	49.0
3110	1100	1034	100	0.25	1.5	2.5	18	9.0	1.28	103.0	122.0	53.0
3120	1200	1134	100	0.28	1.6	2.7	18	10.0	1.29	115.0	136.0	59.0
3150	1500	1434	100	0.35	2.0	3.3	18	12.0	1.31	140.0	166.0	71.0
3180	1800	1734	100	0.42	2.4	4.0	18	14.0	1.33	166.0	196.0	83.0
3200	2000	1934	100	0.47	2.6	4.4	18	16.0	1.33	183.0	216.0	92.0
3220	2200	2134	100	0.51	2.9	4.9	18	17.0	1.32	200.0	236.0	101.0
3250	2500	2434	100	0.58	3.2	5.5	18	19.0	1.32	225.0	266.0	114.0
3280	2800	2734	100	0.65	3.6	6.1	18	22.0	1.30	251.0	297.0	128.0
3300	3000	2934	100	0.70	3.9	6.6	18	23.0	1.30	269.0	318.0	137.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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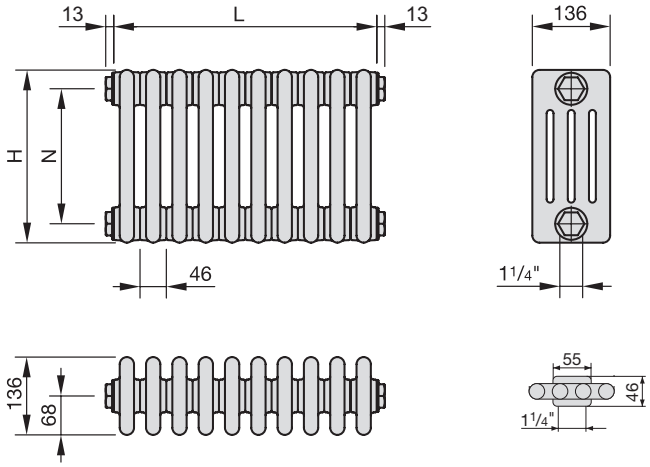
Model 4-column



H = Height
L = Length = Elements x 46 mm
N = Connection spacing = H - 66 mm
T = Depth of radiator
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

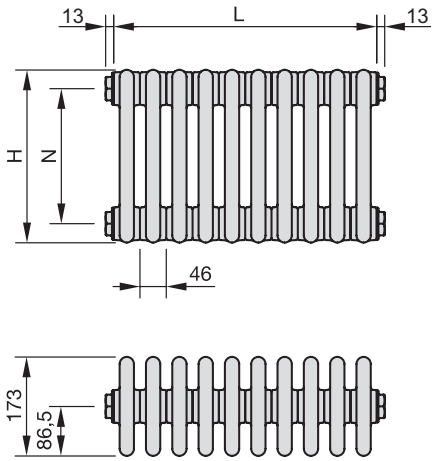
Technical specifications per element

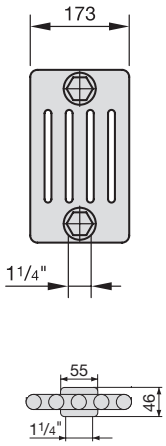
Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
4019	200	134	136	0.06	0.6	0.8	20	2.0	1.26	28.4	34.0	15.0
4026	260	194	136	0.08	0.7	1.0	18	3.0	1.25	36.5	440	19.0
4030	300	234	136	0.09	0.7	1.1	18	4.0	1.25	41.9	50.0	22.0
4035	350	284	136	0.11	0.8	1.2	17	4.0	1.25	48.5	58.0	25.0
4040	400	334	136	0.12	0.9	1.3	16	5.0	1.26	54.9	65.0	29.0
4045	450	384	136	0.14	1.0	1.5	16	5.0	1.26	61.3	73.0	32.0
4050	500	434	136	0.15	1.0	1.6	16	6.0	1.26	67.6	80.0	35.0
4055	550	484	136	0.17	1.1	1.8	16	6.0	1.26	73.7	87.0	38.0
4060	600	534	136	0.19	1.2	1.9	15	7.0	1.27	79.8	95.0	41.0
4075	750	684	136	0.23	1.4	2.4	15	8.0	1.27	97.4	115.0	51.0
4090	900	834	136	0.28	1.7	2.8	15	10.0	1.28	114.0	135.0	59.0
4100	1000	934	136	0.31	1.8	3.1	15	11.0	1.29	125.0	148.0	64.0
4110	1100	1034	136	0.34	2.0	3.4	15	12.0	1.29	135.0	160.0	69.0
4120	1200	1134	136	0.37	2.1	3.7	15	13.0	1.30	147.0	174.0	75.0
4150	1500	1434	136	0.47	2.6	4.6	15	15.0	1.31	180.0	213.0	91.0
4180	1800	1734	136	0.56	3.1	5.5	15	18.0	1.33	213.0	252.0	107.0
4200	2000	1934	136	0.63	3.4	6.0	15	20.0	1.32	234.0	277.0	118.0
4220	2200	2134	136	0.69	3.8	6.6	15	22.0	1.32	256.0	303.0	129.0
4250	2500	2434	136	0.78	4.3	7.5	15	25.0	1.31	289.0	342.0	147.0
4280	2800	2734	136	0.88	4.8	8.4	15	28.0	1.30	323.0	382.0	165.0
4300	3000	2934	136	0.94	5.1	9.0	15	30.0	1.30	345.0	408.0	176.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Model 5-column





H = Height
L = Length = Elements x 46 mm
N = Connection spacing = H - 66 mm
T = Depth of radiator
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

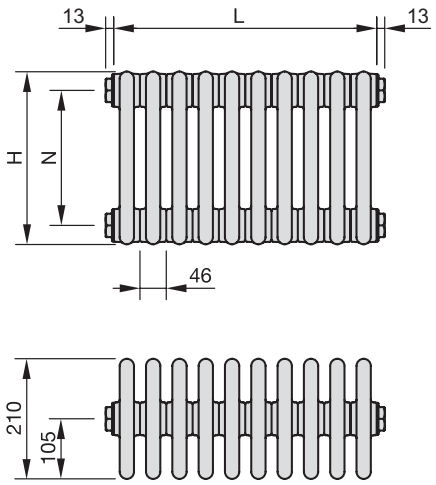
Technical specifications per element

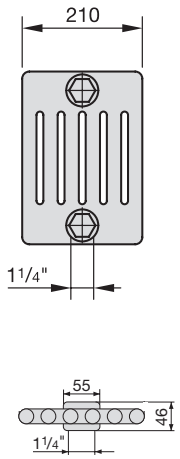
Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
5019	200	134	173	0.08	0.7	1.0	19	3.0	1.25	35.0	42.0	18.0
5026	260	194	173	0.10	0.8	1.2	17	4.0	1.25	45.1	54.0	24.0
5030	300	234	173	0.12	0.9	1.3	16	4.0	1.25	51.7	62.0	27.0
5035	350	284	173	0.13	1.0	1.5	15	5.0	1.26	59.9	71.0	31.0
5040	400	334	173	0.15	1.1	1.7	15	6.0	1.26	67.9	81.0	35.0
5045	450	384	173	0.17	1.2	1.8	14	7.0	1.26	75.8	90.0	40.0
5050	500	434	173	0.19	1.3	2.0	14	7.0	1.27	83.5	99.0	43.0
5055	550	484	173	0.20	1.3	2.2	14	8.0	1.27	91.0	108.0	47.0
5060	600	534	173	0.23	1.5	2.4	13	8.0	1.27	98.6	117.0	51.0
5075	750	684	173	0.29	1.8	2.9	13	10.0	1.29	120.0	142.0	62.0
5090	900	834	173	0.35	2.1	3.5	13	12.0	1.30	141.0	167.0	72.0
5100	1000	934	173	0.39	2.3	3.9	13	13.0	1.30	154.0	182.0	79.0
5110	1100	1034	173	0.43	2.5	4.2	13	14.0	1.31	167.0	198.0	85.0
5120	1200	1134	173	0.47	2.7	4.6	13	15.0	1.31	179.0	212.0	91.0
5150	1500	1434	173	0.59	3.3	5.7	13	19.0	1.32	219.0	259.0	111.0
5180	1800	1734	173	0.70	3.9	6.8	13	22.0	1.32	259.0	306.0	131.0
5200	2000	1934	173	0.78	4.3	7.5	13	25.0	1.32	285.0	337.0	144.0
5220	2200	2134	173	0.86	4.7	8.2	13	27.0	1.32	312.0	369.0	158.0
5250	2500	2434	173	0.98	5.3	9.3	13	30.0	1.31	352.0	416.0	179.0
5280	2800	2734	173	1.10	5.9	10.4	13	34.0	1.30	392.0	463.0	200.0
5300	3000	2934	173	1.18	6.4	11.2	13	36.0	1.30	420.0	496.0	215.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston*

Model 6-column





H = Height
L = Length = Elements x 46 mm
N = Connection spacing = H - 66 mm
T = Depth of radiator
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

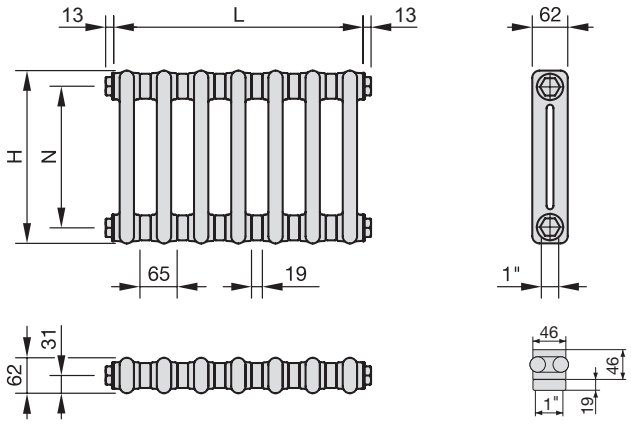
Technical specifications per element

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
6019	200	134	210	0.09	0.8	1.2	19	4.0	1.27	41.5	49.0	22.0
6026	260	194	210	0.12	1.0	1.4	18	5.0	1.27	54.0	64.0	28.0
6030	300	234	210	0.14	1.1	1.6	15	5.0	1.26	61.3	73.0	32.0
6035	350	284	210	0.16	1.2	1.8	14	6.0	1.26	71.0	84.0	37.0
6040	400	334	210	0.19	1.3	2.0	14	7.0	1.27	80.5	95.0	42.0
6045	450	384	210	0.21	1.4	2.2	13	8.0	1.27	89.8	106.0	47.0
6050	500	434	210	0.23	1.5	2.5	13	9.0	1.28	99.0	117.0	51.0
6055	550	484	210	0.26	1.6	2.7	12	9.0	1.28	108.0	128.0	56.0
6060	600	534	210	0.28	1.8	2.9	12	10.0	1.29	117.0	139.0	60.0
6075	750	684	210	0.35	2.1	3.5	12	12.0	1.30	143.0	169.0	73.0
6090	900	834	210	0.42	2.5	4.2	12	14.0	1.31	167.0	198.0	85.0
6100	1000	934	210	0.47	2.7	4.6	12	16.0	1.31	183.0	216.0	93.0
6110	1100	1034	210	0.52	3.0	5.1	12	17.0	1.32	198.0	234.0	100.0
6120	1200	1134	210	0.56	3.2	5.5	12	18.0	1.32	210.0	248.0	106.0
6150	1500	1434	210	0.70	4.0	6.8	12	22.0	1.32	256.0	303.0	129.0
6180	1800	1734	210	0.85	4.7	8.1	12	26.0	1.33	303.0	358.0	152.0
6200	2000	1934	210	0.94	5.2	9.0	12	29.0	1.32	334.0	395.0	169.0
6220	2200	2134	210	1.03	5.6	9.9	12	31.0	1.32	365.0	431.0	185.0
6250	2500	2434	210	1.18	6.3	11.2	12	35.0	1.32	412.0	487.0	208.0
6280	2800	2734	210	1.33	7.0	12.5	12	39.0	1.30	459.0	542.0	234.0
6300	3000	2934	210	1.41	7.5	13.4	12	42.0	1.30	491.0	580.0	251.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Model 2-column Clinic



H = Height
L = Length = Elements x 65 mm - 19 mm
N = Connection spacing
T = Depth
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

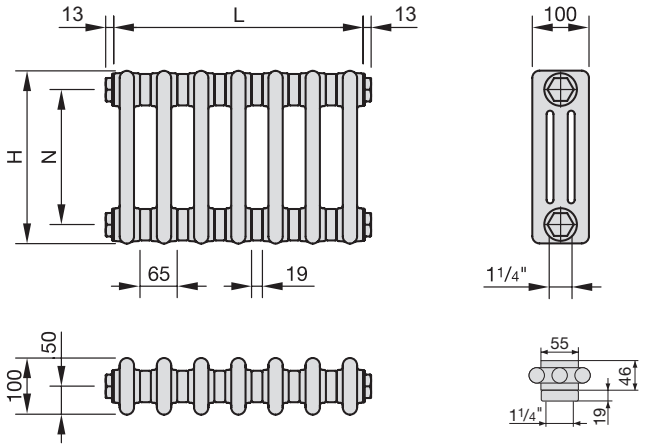
Technical specifications per element

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
K2019	177	119	62	0.03	0.3	0.4	30	1.5	1.30	17.2	21.0	9.0
K2026	260	202	62	0.04	0.4	0.5	25	2.1	1.30	23.9	29.0	12.0
K2030	292	234	62	0.05	0.4	0.5	25	2.3	1.29	26.5	32.0	14.0
K2035	342	284	62	0.06	0.4	0.6	24	2.5	1.29	29.3	35.0	15.0
K2040	392	334	62	0.07	0.5	0.7	25	2.8	1.29	32.3	39.0	17.0
K2045	442	384	62	0.07	0.5	0.8	24	3.0	1.29	35.4	42.0	18.0
K2050	492	434	62	0.08	0.6	0.8	23	3.3	1.29	38.6	46.0	20.0
K2055	542	484	62	0.09	0.6	0.9	23	3.6	1.29	41.9	50.0	22.0
K2060	592	534	62	0.10	0.6	1.0	23	3.9	1.29	45.2	54.0	23.0
K2075	742	684	62	0.12	0.8	1.2	22	4.8	1.29	55.8	66.0	29.0
K2090	892	834	62	0.14	0.9	1.4	22	5.8	1.30	66.9	79.0	34.0
K2100	992	934	62	0.16	1.0	1.6	22	6.4	1.30	74.7	89.0	38.0
K2110	1092	1034	62	0.18	1.0	1.7	22	7.1	1.30	82.6	98.0	42.0
K2120	1192	1134	62	0.19	1.1	1.9	22	7.8	1.30	90.6	107.0	46.0
K2150	1492	1434	62	0.24	1.3	2.3	23	9.9	1.33	115.0	136.0	58.0
K2180	1792	1734	62	0.29	1.6	2.7	23	12.1	1.35	141.0	167.0	70.0
K2200	1992	1934	62	0.32	1.8	3.0	23	13.5	1.34	157.0	186.0	79.0
K2220	2192	2134	62	0.35	1.9	3.3	23	14.9	1.34	173.0	205.0	87.0
K2250	2492	2434	62	0.40	2.2	3.8	23	16.8	1.33	195.0	231.0	98.0
K2280	2792	2734	62	0.45	2.4	4.2	23	18.8	1.32	219.0	259.0	111.0
K2300	2992	2934	62	0.48	2.6	4.5	23	20.2	1.32	235.0	278.0	119.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Model 3-column Clinic



H = Height
L = Length = Elements x 65 mm - 19 mm
N = Connection spacing
T = Depth
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

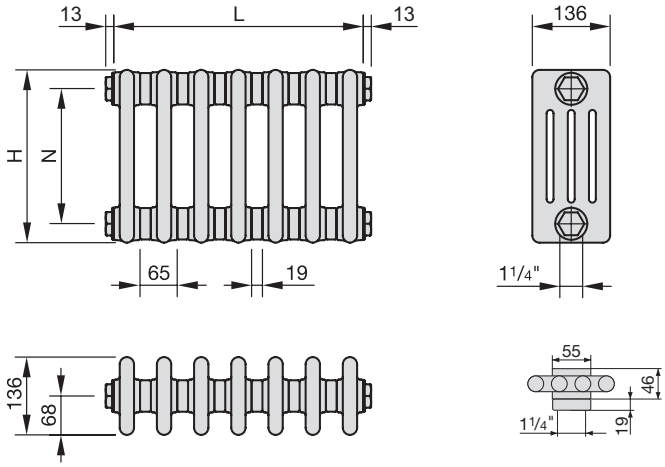
Technical specifications per element

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
K3019	185	119	100	0.05	0.5	0.6	23	2.0	1.26	23.5	28.0	12.0
K3026	260	194	100	0.06	0.6	0.7	21	2.7	1.27	31.6	38.0	16.0
K3030	300	234	100	0.07	0.6	0.8	20	3.1	1.27	35.9	43.0	19.0
K3035	350	284	100	0.08	0.7	0.9	20	3.5	1.28	41.1	49.0	21.0
K3040	400	334	100	0.10	0.7	1.0	19	4.0	1.28	46.3	55.0	24.0
K3045	450	384	100	0.11	0.8	1.1	19	4.4	1.28	51.3	61.0	26.0
K3050	500	434	100	0.12	0.9	1.2	18	4.8	1.28	56.3	67.0	29.0
K3055	550	484	100	0.13	0.9	1.3	18	5.3	1.29	61.3	73.0	31.0
K3060	600	534	100	0.14	1.0	1.5	18	5.7	1.29	66.2	79.0	34.0
K3075	750	684	100	0.18	1.2	1.8	18	6.9	1.30	80.7	96.0	41.0
K3090	900	834	100	0.21	1.3	2.1	18	8.2	1.31	95.1	113.0	48.0
K3100	1000	934	100	0.24	1.5	2.3	18	9.0	1.32	105.0	124.0	53.0
K3110	1100	1034	100	0.26	1.6	2.5	18	9.8	1.32	114.0	135.0	58.0
K3120	1200	1134	100	0.29	1.7	2.8	18	10.8	1.33	125.0	148.0	63.0
K3150	1500	1434	100	0.36	2.0	3.4	18	13.7	1.33	159.0	188.0	80.0
K3180	1800	1734	100	0.43	2.4	4.0	18	16.5	1.34	192.0	227.0	96.0
K3200	2000	1934	100	0.47	2.6	4.5	18	18.4	1.33	214.0	253.0	108.0
K3220	2200	2134	100	0.52	2.9	4.9	18	20.2	1.33	235.0	278.0	118.0
K3250	2500	2434	100	0.56	3.3	5.6	18	22.7	1.33	264.0	312.0	133.0
K3280	2800	2734	100	0.66	3.7	6.2	18	24.9	1.33	290.0	343.0	146.0
K3300	3000	2934	100	0.71	4.0	6.6	18	26.7	1.33	311.0	367.0	156.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Model 4-column Clinic



H = Height
L = Length = Elements x 65 mm - 19 mm
N = Connection spacing
T = Depth
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

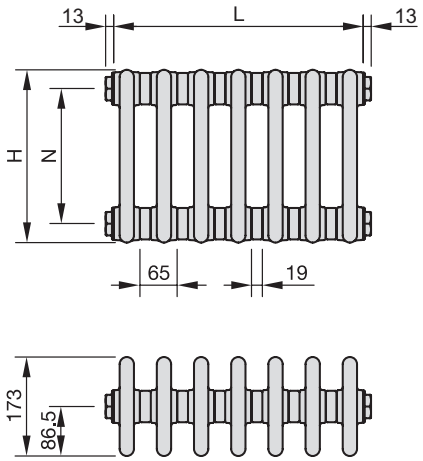
Technical specifications per element

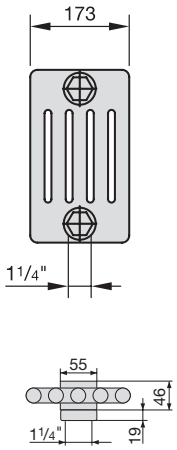
Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
K4019	200	134	136	0.07	0.6	0.9	20	2.7	1.26	31.7	38.0	17.0
K4026	260	194	136	0.09	0.7	1.1	18	3.4	1.26	40.0	48.0	21.0
K4030	300	234	136	0.10	0.8	1.2	18	3.9	1.26	46.0	55.0	24.0
K4035	350	284	136	0.11	0.9	1.3	17	4.5	1.26	52.3	62.0	27.0
K4040	400	334	136	0.13	0.9	1.5	16	5.1	1.27	59.1	70.0	31.0
K4045	450	384	136	0.15	1.0	1.6	16	5.7	1.27	65.8	78.0	34.0
K4050	500	434	136	0.16	1.1	1.8	16	6.2	1.27	72.5	86.0	38.0
K4055	550	484	136	0.18	1.2	1.9	16	6.8	1.28	79.2	94.0	41.0
K4060	600	534	136	0.19	1.3	2.1	15	7.4	1.28	85.8	102.0	44.0
K4075	750	684	136	0.24	1.5	2.5	15	9.1	1.29	106.0	126.0	54.0
K4090	900	834	136	0.29	1.8	3.0	15	10.8	1.30	125.0	148.0	64.0
K4100	1000	934	136	0.32	1.9	3.2	15	11.9	1.31	138.0	163.0	70.0
K4110	1100	1034	136	0.35	2.1	3.5	15	13.0	1.32	151.0	179.0	76.0
K4120	1200	1134	136	0.38	2.2	3.8	15	14.1	1.32	164.0	194.0	83.0
K4150	1500	1434	136	0.47	2.7	4.7	15	17.4	1.31	202.0	239.0	103.0
K4180	1800	1734	136	0.57	3.1	5.6	15	20.6	1.31	240.0	284.0	122.0
K4200	2000	1934	136	0.63	3.4	6.2	15	22.9	1.32	266.0	314.0	134.0
K4220	2200	2134	136	0.70	3.7	6.8	15	25.0	1.32	291.0	344.0	147.0
K4250	2500	2434	136	0.79	4.3	7.7	15	28.4	1.32	330.0	390.0	167.0
K4280	2800	2734	136	0.87	4.9	8.6	15	32.2	1.32	375.0	443.0	190.0
K4300	3000	2934	136	0.95	5.4	9.2	15	34.5	1.32	401.0	474.0	203.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Model 5-column Clinic





H = Height
L = Length = Elements x 65 mm - 19 mm
N = Connection spacing
T = Depth
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

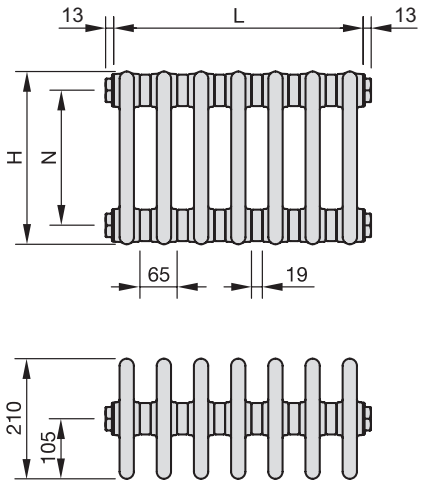
Technical specifications per element

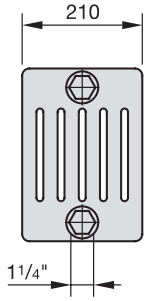
Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
K5019	200	134	173	0.08	0.8	1.1	19	3.3	1.26	38.8	46.0	20.0
K5026	260	194	173	0.11	0.9	1.3	17	4.2	1.25	48.9	58.0	26.0
K5030	300	234	173	0.12	1.0	1.4	16	4.8	1.25	55.7	66.0	29.0
K5035	350	284	173	0.14	1.1	1.6	15	5.5	1.25	64.0	76.0	34.0
K5040	400	334	173	0.16	1.2	1.8	15	6.2	1.26	72.4	86.0	38.0
K5045	450	384	173	0.18	1.3	2.0	14	6.9	1.26	80.7	96.0	42.0
K5050	500	434	173	0.20	1.4	2.2	14	7.7	1.26	89.0	106.0	46.0
K5055	550	484	173	0.22	1.5	2.3	14	8.4	1.27	97.3	115.0	50.0
K5060	600	534	173	0.24	1.6	2.5	13	9.1	1.27	106.0	126.0	55.0
K5075	750	684	173	0.30	1.9	3.1	13	11.2	1.28	130.0	154.0	67.0
K5090	900	834	173	0.36	2.2	3.6	13	13.2	1.29	154.0	182.0	79.0
K5100	1000	934	173	0.40	2.4	4.0	13	14.6	1.30	170.0	201.0	87.0
K5110	1100	1034	173	0.44	2.6	4.3	13	16.0	1.31	186.0	220.0	95.0
K5120	1200	1134	173	0.48	2.8	4.7	13	17.4	1.31	202.0	239.0	103.0
K5150	1500	1434	173	0.59	3.3	5.8	13	21.2	1.30	247.0	292.0	126.0
K5180	1800	1734	173	0.71	3.9	6.9	13	25.2	1.29	293.0	346.0	150.0
K5200	2000	1934	173	0.79	4.3	7.6	13	27.8	1.31	323.0	382.0	164.0
K5220	2200	2134	173	0.87	4.7	8.3	13	30.5	1.31	355.0	419.0	180.0
K5250	2500	2434	173	0.99	5.4	9.4	13	34.7	1.31	403.0	476.0	205.0
K5280	2800	2734	173	1.11	6.1	10.5	13	39.4	1.31	458.0	541.0	233.0
K5300	3000	2934	173	1.19	6.6	11.3	13	42.1	1.31	490.0	579.0	249.0

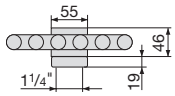
An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

zehnder *charleston clinic*

Model 6-column Clinic







H = Height
L = Length = Elements x 65 mm - 19 mm
N = Connection spacing
T = Depth
A = Surface
V = Water capacity
M = Weight
s_k = Radiant component
q_{ms} = Standard water flow
n = Exponent
Φ_s = Standard thermal output according to EN 442 (75/65/20°C)
Φ = Thermal output at system temperatures

Dimensions in mm

Technical specifications per element

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s=ΔT 50 K EN442	Φ ΔT=56K	Φ ΔT=30K
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
K6019	200	134	210	0.10	0.9	1.3	19	3.9	1.27	45.8	55.0	24.0
K6026	260	194	210	0.13	1.0	1.5	18	5.0	1.28	58.1	69.0	30.0
K6030	300	234	210	0.15	1.1	1.7	15	5.7	1.29	66.2	79.0	34.0
K6035	350	284	210	0.17	1.3	1.9	14	6.6	1.29	76.2	90.0	39.0
K6040	400	334	210	0.19	1.4	2.1	14	7.4	1.29	86.2	102.0	44.0
K6045	450	384	210	0.22	1.5	2.4	13	8.3	1.29	96.1	114.0	49.0
K6050	500	434	210	0.24	1.6	2.6	13	9.1	1.29	106.0	126.0	54.0
K6055	550	484	210	0.26	1.8	2.8	12	10.0	1.29	116.0	137.0	60.0
K6060	600	534	210	0.29	1.9	3.0	12	10.8	1.29	125.0	148.0	64.0
K6075	750	684	210	0.36	2.2	3.7	12	13.2	1.30	154.0	182.0	79.0
K6090	900	834	210	0.43	2.6	4.3	12	15.7	1.30	183.0	216.0	93.0
K6100	1000	934	210	0.48	2.8	4.8	12	17.3	1.30	201.0	238.0	103.0
K6110	1100	1034	210	0.52	3.1	5.2	12	18.9	1.30	220.0	260.0	112.0
K6120	1200	1134	210	0.57	3.3	5.6	12	20.5	1.30	238.0	281.0	122.0
K6150	1500	1434	210	0.71	4.0	6.9	12	25.2	1.31	293.0	346.0	149.0
K6180	1800	1734	210	0.85	4.8	8.2	12	30.0	1.32	349.0	412.0	176.0
K6200	2000	1934	210	0.95	5.2	9.1	12	33.2	1.31	386.0	456.0	196.0
K6220	2200	2134	210	1.04	5.7	10.0	12	36.4	1.31	423.0	500.0	215.0
K6250	2500	2434	210	1.19	6.4	11.3	12	41.4	1.30	481.0	568.0	246.0
K6280	2800	2734	210	1.34	7.1	12.6	12	46.2	1.30	537.0	634.0	274.0
K6300	3000	2934	210	1.42	7.6	13.5	12	49.4	1.30	575.0	679.0	294.0

An average overall discrepancy of +/- 1.5% for length, +/- 2mm for height and +/- 5 mm for the depth must be allowed.

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Options available (please contact the sales office for further information)

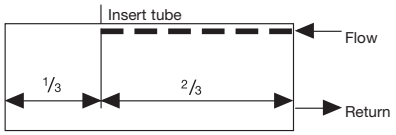
High-pressure version max. 18 bar (not for Completto version)

with welded plugs:	2 to 3-column
with welded plugs and tied rod	4 to 6-column
for radiators comprising several blocks, additional welded joint	(top and bottom)

Insert tube

For Zehnder Charleston radiators with same-side connections, a flow insert tube is factory-installed in 2/3 of the radiator length from the following element numbers or lengths, in order to guarantee the thermal outputs shown in the catalogue.

2-column, from 87 elements = length 4002 mm
3-column, from 85 elements = length 3910 mm
4-column, from 81 elements = length 3726 mm
5-column, from 71 elements = length 3266 mm
6-column, from 55 elements = length 2530 mm



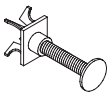
Intermediate heights and heights over 3000 mm

Angled or curved design

(see page 65)

Distance spacer DS

Provides additional support and helps securely position tall radiators
Adjustable for wall clearance 15-60 mm



Welded lugs

Factory-joined radiators of excess length

Radiators in lengths above the set maximum number of elements shown on pages 8 and 9 are supplied in sub-blocks and must be joined together on site.
The appropriate fitting (for 2-column 1"; for 3 to 6-column 5/4") are supplied.
Only the supplied marsonite gaskets are to be used as seals, tightening torque approx. 215 Nm.
The Completto version with integrated valve at bottom is only possible up to a length of max. 64 elements.
Factory joining for delivery in one piece;

Galvanising

Galvanising with subsequent standard colour (RAL 9016)
Maximum dimensions: 3000 x 850 x 450 mm

Completto version

with valve inserts for clip seal (Danfoss thermostat) instead of standard M 30 x 1,5 threaded connection

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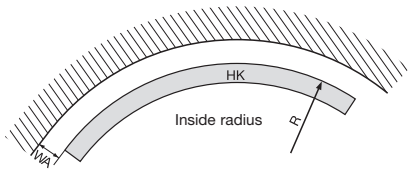
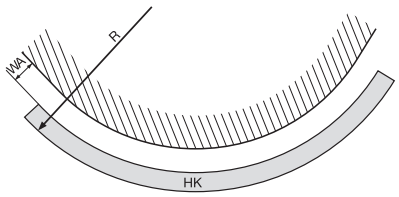
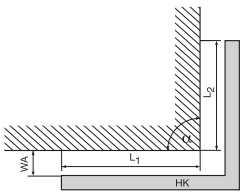
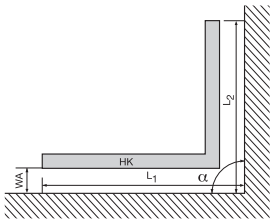
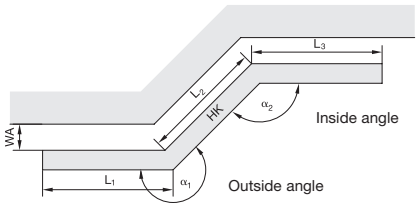
Curved version

Design	Sketch / template	
Zehnder Charleston radiators are available with the following minimum external curve radii: Zehnder Charleston — Zehnder Charleston clinic 2-column: 400 mm — K 2-column: 800 mm 3-column: 650 mm — K 3-column: 1300 mm 4-column: 750 mm — K 4-column: 1500 mm 5-column: 900 mm — K 5-column: 1800 mm 6-column: 1000 mm — K 6-column: 2000 mm The first three elements are not curved for the Completto version.	 	

Angled version

Design	Sketch / template	
Special version angled, available from 90° to 179°. When making a price inquiry, please provide the following dimensions: L_1, L_2, L_3 in mm, angle α_1, α_2 in degrees. Please provide sturdy templates when placing your order.	  	

When ordering or requesting prices of curved and angled radiators, please enclose a template or scale sketch with all dimensions indicated in the sketches.

HK = Radiator
WA = Wall clearance
R = Radius
α_1, α_2 = Angle [°]
L_1, L_2, L_3 = Lengths

Dimensions in mm

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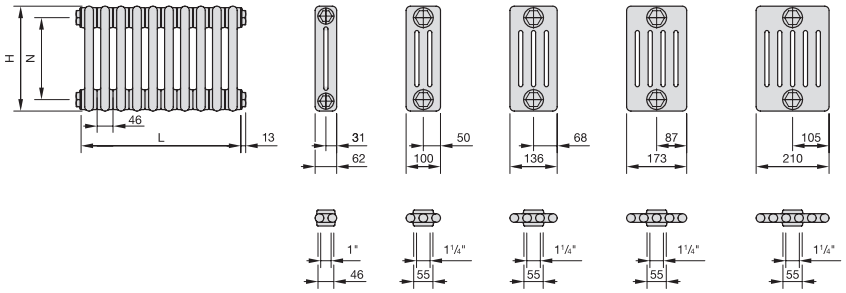
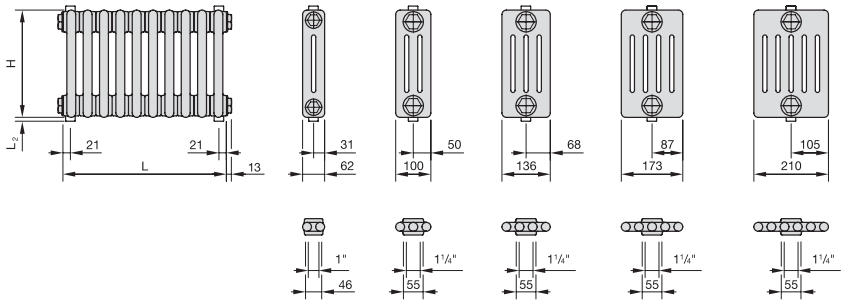
Connection type	Dimensional drawings: Front view, side view and top view (bottom)
Standard connection 2-tube with external valve	
Same-side or opposite end 1270 *, 7610 * 1670 *, 7210 * 2670 *, 6210 * 1706 Δ, 7102 Δ	
From bottom to bottom 3570 *, 5310 * Note: For Completto, see p. 66	
From top to top 9806 Δ, 8902 Δ	
From top to bottom 9570, 8310	
From bottom to top 3816 * Δ, 5972 Δ *	

When orders are placed without indication of the connection type, the standard connection 4 x ½" is delivered.
Possible connections: 120/340 and 140/320.

For information on Insert Tubes, please refer to page 64.

H = Height
L = Length
N = Connection spacing
L_2 = Thread overlap,
½" = 6mm; ¾" = 15mm
* = Ventilation
Δ = Draining
• = Internal installations

Dimensions in mm

[1)] The dimensions shown also apply to the Zehnder Charleston clinic (without graphic illustration), unless noted otherwise.

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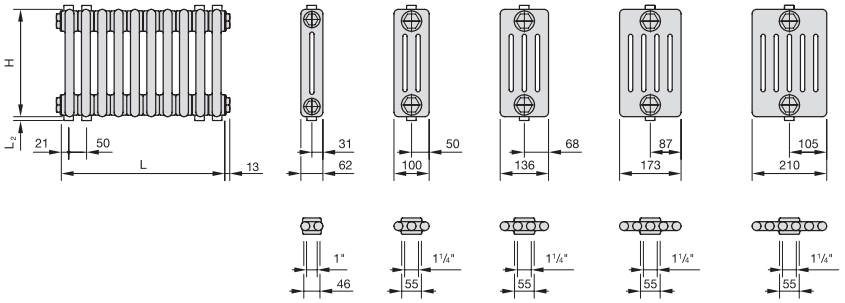
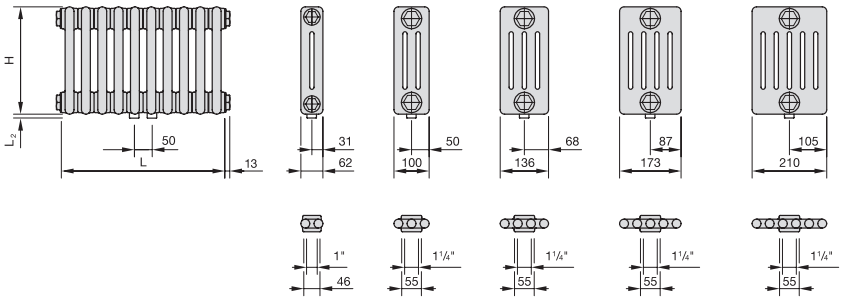
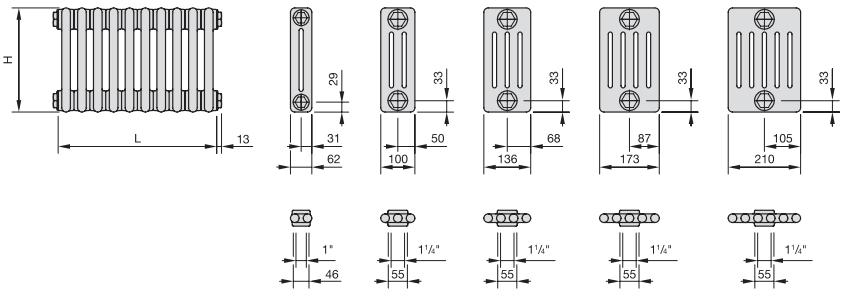
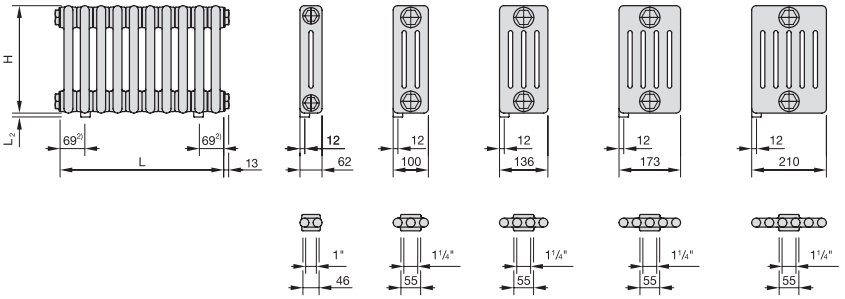
Connection type	Dimensional drawings: Front view, side view and top view (bottom)
Standard connection 2-tube with external valve	
From bottom to bottom, laterally 50 mm 3370 * 5510 * Note: For Completto, see p. 66	
From top to top, laterally 9906 Δ 8802 Δ	
From bottom to bottom, central 50 mm 3470 * 5410 * Note: For Completto, see p. 66	 Central arrangement of connection fitting only with even number of elements
Standard connection 1-tube with external valve	
For horizontal lance valve 2070 * 6010 *	 Specify valve unit when placing order
For vertical lance valve 3070 * 5010 *	 Specify valve unit when placing order

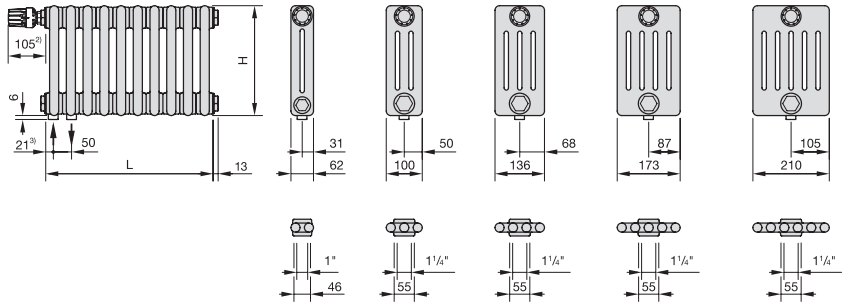
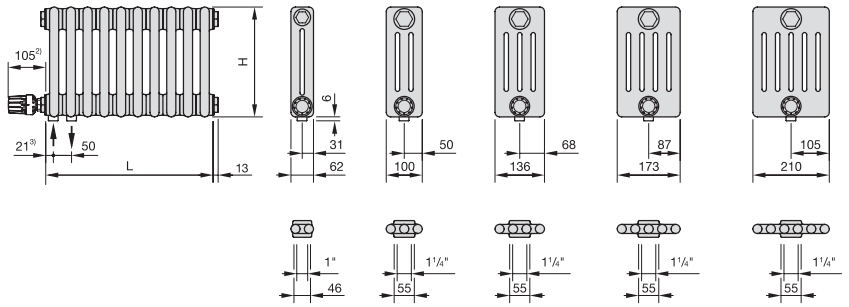
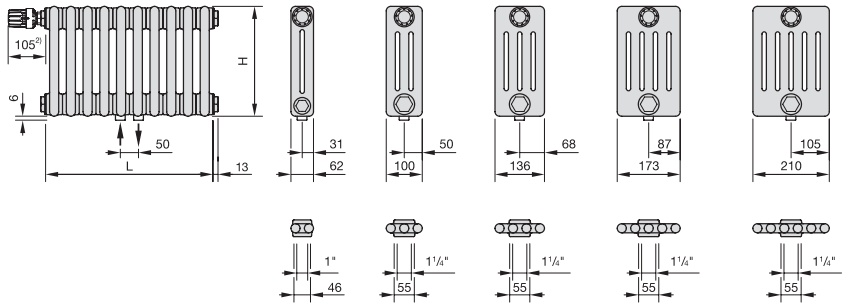
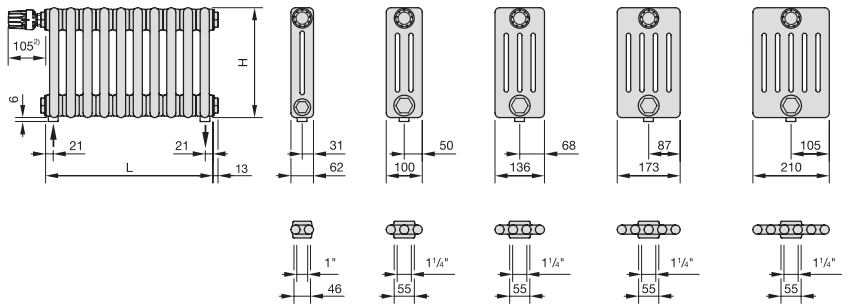
When orders are placed without indication of the connection type, the standard connection 4 x ½" is delivered.
Possible connections: 120/340 and 140/320.

H = Height
L = Length
N = Connection spacing
L_2 = Thread overlap,
½" = 6mm; ¾" = 15mm
* = Ventilation
Δ = Draining

Dimensions in mm
Zehnder Charleston

[1)] The dimensions shown also apply to the Zehnder Charleston clinic (without graphic illustration), unless noted otherwise.
[2)] For Zehnder Charleston Clinic 88 mm

zehnder *charleston*, **zehnder** *charleston clinic*[1)]

Connection type	Dimensional drawings: Front view, side view and top view (bottom)
Completto connection with integrated valve is available for both the Charleston and Charleston clinic models	
Valve at top Connection on side 50 mm V001 * V002 *	
Valve at bottom Connection on side 50 mm V003 * V004 *	 Reduced thermal output of the first element due to insufficient circulation.
Valve at top Connection central 50 mm V007 * V008 *	 Middle connection only possible with even number of elements.
Valve at top Opposite end connection V011 * V012 *	

Valve parameters:
TRV (M30 x 1.5) supplied as standard
Special control valve OV 1" (for 2-column) or OV 5/4" (for 3 to 6-column) is installed at the factory.
Max. recommended flow rate 250 kg/h. Data for special control valve on request.

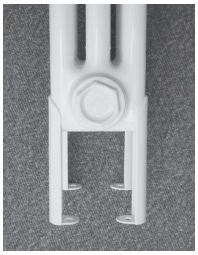
Note:
When ordering a Completto connection (integrated valve), the connection type number (e.g. C223) and the term "Completto" must be noted.

H = Height
L = Length
N = Connection spacing
* = Ventilation
Δ = Draining

Dimensions in mm

1) The dimensions shown also apply to the Zehnder Charleston clinic (without graphic illustration), unless noted otherwise.
2) Only valid for Zehnder thermostat LH2
3) For Zehnder Charleston clinic 31 mm

zehnder *charleston*, **zehnder** *charleston clinic*

Illustration	Description	Model			
		Application	Brackets Number + type	Article no. Pcs.	
Welded foot [1] 	Traditional welded foot with facility to screw to the floor. Additional top fixing is recommended to provide sufficient stability. Foot height 100mm.	**All models**			
		Height 260 - 3000 mm			
		L = 4-23 el. L = 24-41 el. L = 42-58 el.	2 pairs 3 pairs 4 pairs	By length	
Adjustable tubular leg support	Suitable for free-standing radiators up to 1000mm. Additional top fixing is recommended to provide sufficient stability. Available in two heights: 120 - 170mm 170 - 350mm	**All models**			
		Height 260 - 1000 mm			
		L = 4-20 el. L = 21-40 el. L = 41-60 el.	2 feet 3 feet 4 feet	By length	
Cover for tubular leg support	Cover plate for tubular leg support. Diameter of plate 106mm. Diameter of centre hole 25mm.	**All models**			
		Height 260 - 1000 mm			
		L = 4-20 el. L = 21-40 el. L = 41-60 el.	2 3 4	By length	

H = Height of radiator in mm L = Length of radiator in elements D = Distance from wall to middle of connection

[1] For completto models, the feet are moved in from the outside edge by one element on each side due to the integrated valve

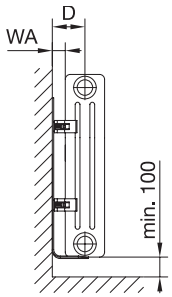
zehnder *charleston*

with EasyFix

The Zehnder EasyFix brackets are supplied as standard. For traditional CVD brackets, please see page 71.

Fixing details for accessory set SMB (bracket details for Zehnder Charleston Clinic, see page 72)

Set SMB 30-75

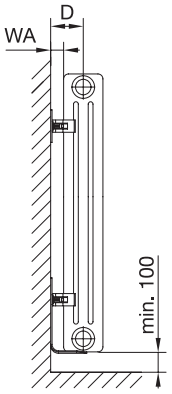


Distance D:

2-column	66 mm
3-column	85 mm
4-column	103 mm
5-column	122 mm
6-column	140 mm

Distance WA = 35mm

Set SMB 2T



Distance D:

2-column	66 mm
3-column	85 mm
4-column	103 mm
5-column	122 mm
6-column	140 mm

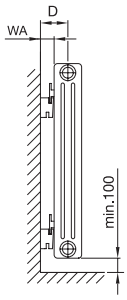
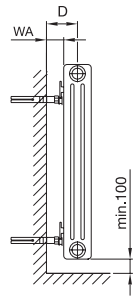
Distance WA = 35mm

Illustration	Sketch side view	Model				
		Application / Length of radiator	Brackets in set		Application / Length of radiator	Brackets in set
		H = 190				
		Supplied with CVD brackets. See page 71				
		H = 260				
		All models				
		L = 4-22 L = 23-39 L = 40-50 L = 50-60	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T			
		H = 300-369				
		All models				
		L = 4-22 L = 23-39 L = 40-50 L = 50-60	2 x SMB30 3 x SMB30 4 x SMB30 5 x SMB30			
		H > 370-484				
		All models				
		L = 4-22 L = 23-39 L = 40-50 L = 50-60	2 x SMB40 3 x SMB40 4 x SMB40 5 x SMB40			
		H > 485-679				
		All models				
		L = 4-22 L = 23-39 L = 40-50 L = 50-60	2 x SMB50 3 x SMB50 4 x SMB50 5 x SMB50			
		H > 680-1000				
		2 to 4-column			5 to 6-column	
		L = 4-22 L = 23-39 L = 40-55 L = 56-65	2 x SMB75 3 x SMB75 4 x SMB75 5 x SMB75		L = 4-15 L = 16-29 L = 30-42 L = 43-55	2 x SMB75 3 x SMB75 4 x SMB75 5 x SMB75
		H > 1001-1500				
		2 to 4-column			5 to 6-column	
		L = 4-15 L = 16-30 L = 31-45 L = 46-60	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T		L = 4-10 L = 11-20 L = 21-30 L = 31-40	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T
		H > 1501-2200				
		2 to 4-column			5 to 6-column	
		L = 4-11 L = 12-21 L = 22-31 L = 32-41	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T		L = 4-10 L = 11-16 L = 17-21 L = 22-27	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T

H = Height of radiator in mm L = Length of radiator in elements D = Distance from wall to middle of connection

WA = Distance between the wall and the back of the radiator

zehnder *charleston*

Illustration	Sketch side view	Model		
		Application / Length of radiator	Brackets in set	Wall clearance WA mm
Fixing details for accessory sets CVD, BKE (bracket details for Zehnder Charleston Clinic, see page 73)				
Set CVD	 Distance D: 2-column 59 mm; 3-column 78 mm; 4-column 96 mm; 5-column 114 mm; 6-column 133 mm WA = 28 mm	**All models**		
		Height 190 - 1000 mm	with security clip	
		L = 4-20 el. L = 21-40 el. L = 41-60 el.	4 x BH + CVD 0 6 x BH + CVD 0 8 x BH + CVD 0	28
		Height 1100 - 1500 mm	with security clip	
		L = 4-20 el. L = 21-40 el. L = 41-60 el.	4 x BH + CVD 0 8 x BH + CVD 0 10 x BH + CVD 0	28
		2 to 5-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-10 el. L = 11-20 el. L = 21-30 el. L = 31-40 el.	4 x BH + CVD 0 6 x BH + CVD 0 8 x BH + CVD 0 10 x BH + CVD 0	28
		6-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-10 el. L = 11-20 el. L = 21-30 el. L = 31-40 el.	4 x BH + CVD 0 8 x BH + CVD 0 10 x BH + CVD 0 14 x BH + CVD 0	28
Set BKE [2]	 Distance D: 2-column 77 mm; 3-column 96 mm; 4-column 114 mm; 5-column 133 mm; 6-column 151 mm WA = 46mm	**All models**		
		Height 190 - 1000 mm	with security clip	
		L = 4-20 el. L = 21-40 el. L = 41-60 el.	4 x BH + BKE160 6 x BH + BKE160 8 x BH + BKE160	46
		Height 1100 - 1500 mm	with security clip	
		L = 4-20 el. L = 21-40 el. L = 41-60 el.	4 x BH + BKE160 6 x BH + BKE160 10 x BH + BKE160	46
		2 to 5-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-10 el. L = 11-20 el. L = 21-30 el. L = 31-40 el.	4 x BH + BKE160 6 x BH + BKE160 8 x BH + BKE160 10 x BH + BKE160	46
		6-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-10 el. L = 11-20 el. L = 21-30 el. L = 31-40 el.	4 x BH + BKE160 8 x BH + BKE160 10 x BH + BKE160 14 x BH + BKE160	46

[2] Average distances are given for D and WA for set BKE, as bracket installation depth is variable. L = Length of radiator in mm
D = Distance from wall to middle of connection
WA = Distance between the wall and the back of the radiator

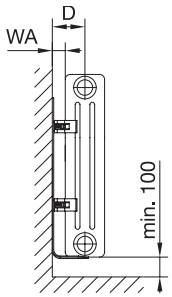
zehnder *charleston clinic*

with EasyFix

The Zehnder EasyFix brackets are supplied as standard. For traditional CVD brackets, please see page 73.

Fixing details for accessory set SMB

Set SMB 30-75

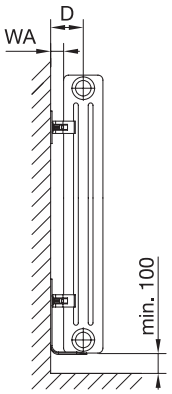


Distance D:

2-column	66 mm
3-column	85 mm
4-column	103 mm
5-column	122 mm
6-column	140 mm

WA = 35mm

Set SMB 2T



Distance D:

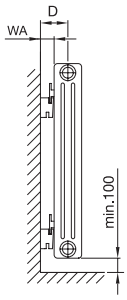
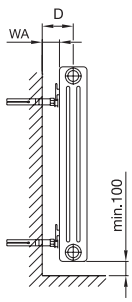
2-column	66 mm
3-column	85 mm
4-column	103 mm
5-column	122 mm
6-column	140 mm

WA = 35mm

Illustration	Sketch side view	Model				
		Application / Length of radiator	Brackets in set		Application / Length of radiator	Brackets in set
		H = 190				
		Supplied with CVD brackets. See page 73				
		H = 260				
		All models				
		L = 4-16 L = 17-27 L = 28-40 L = 41-55	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T			
		H = 300-350				
		All models				
		L = 4-16 L = 17-27 L = 28-40 L = 41-55	2 x SMB30 3 x SMB30 4 x SMB30 5 x SMB30			
		H > 350-450				
		All models				
		L = 4-16 L = 17-27 L = 28-40 L = 41-55	2 x SMB40 3 x SMB40 4 x SMB40 5 x SMB40			
		H > 450-600				
		All models				
		L = 4-16 L = 17-27 L = 28-40 L = 41-55	2 x SMB50 3 x SMB50 4 x SMB50 5 x SMB50			
		H > 600-1000				
		All models				
		L = 4-14 L = 15-27 L = 28-40 L = 41-55	2 x SMB75 3 x SMB75 4 x SMB75 5 x SMB75			
		H > 1000-1500				
		2 to 4-column			5 to 6-column	
		L = 4-14 L = 15-27 L = 28-40 L = 41-55	2 x SMB2T 3 x SMB2T 4 x SMB2T 5 x SMB2T		L = 4-10 L = 11-20 L = 21-30	2 x SMB2T 3 x SMB2T 4 x SMB2T
		H > 1500-2200				
		2 to 4-column			5 to 6-column	
		L = 4-11 L = 12-21 L = 22-31	2 x SMB2T 3 x SMB2T 4 x SMB2T		L = 4-8 L = 9-15 L = 16-22	2 x SMB2T 3 x SMB2T 4 x SMB2T

H = Height of radiator in mm L = Length of radiator in elements D = Distance from wall to middle of connection
WA = Distance between the wall and the back of the radiator

zehnder *charleston clinic*

Illustration	Sketch side view	Model		
		Application	Brackets in set	Wall clearance WA mm
Accessory sets CVD, BKE				
Set CVD	 Distance D: 2-column 57 mm 3-column 76 mm 4-column 94 mm 5-column 112 mm 6-column 131 mm WA = 26mm	**All models**		
		Height 190 - 1500 mm	with security clip	
		L = 4-15 el. L = 16-30 el. L = 31-44 el.	4 x BHK + CVD 0 6 x BHK + CVD 0 8 x BHK + CVD 0	26
		2 to 5-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-15 el. L = 16-23 el. L = 24-30 el. L = 31-36 el.	4 x BHK + CVD 0 6 x BHK + CVD 0 8 x BHK + CVD 0 10 x BHK + CVD 0	26
		6-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-7 el. L = 8-15 el. L = 16-23 el. L = 24-30 el. L = 31-36 el.	4 x BHK + CVD 0 6 x BHK + CVD 0 8 x BHK + CVD 0 10 x BHK + CVD 0 12 x BHK + CVD 0	26
Set BKE [2]	 Distance D: 2-column 77 mm 3-column 96 mm 4-column 114 mm 5-column 133 mm 6-column 151 mm WA = 46mm	**All models**		
		Height 190 - 1500 mm	with security clip	
		L = 4-15 el. L = 16-30 el. L = 31-44 el.	4 x BHK+BKE160 6 x BHK+BKE160 8 x BHK+BKE160	46
		2 to 5-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-15 el. L = 16-23 el. L = 24-30 el. L = 31-36 el.	4 x BHK+BKE160 6 x BHK+BKE160 8 x BHK+BKE160 10 x BHK+BKE160	46
		6-column		
		Height 1600 - 2200 mm	with security clip	
		L = 4-7 el. L = 8-15 el. L = 16-23 el. L = 24-30 el. L = 31-36 el.	4 x BHK+BKE160 6 x BHK+BKE160 8 x BHK+BKE160 10 x BHK+BKE160 12 x BHK+BKE160	46

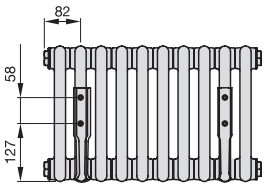
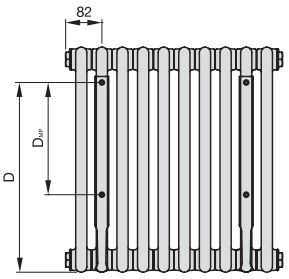
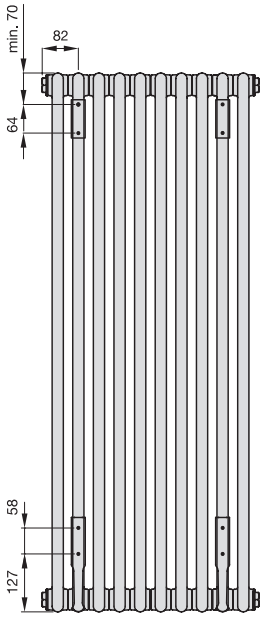
[2] Average distances are given for D and WA for set BKE, as bracket installation depth is variable.

L = Length of radiator in elements D = Distance from wall to middle of connection

WA = Distance between the wall and the back of the radiator

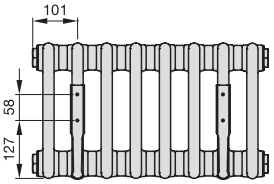
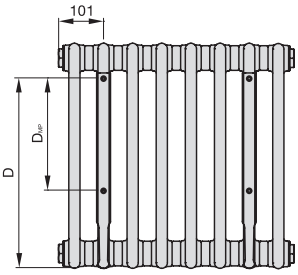
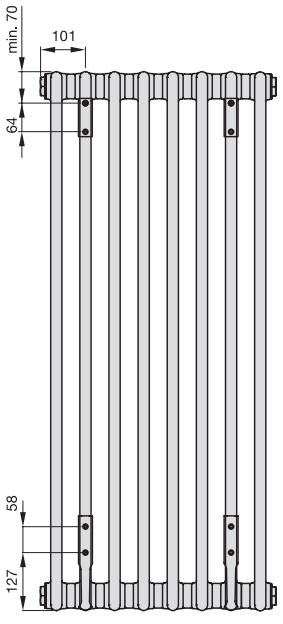
zehnder *charleston*, **zehnder** *charleston clinic*

Version Charleston, dimensions for the drilling holes when using EasyFix brackets

For height mm	SMB 2T H = 260-290	SMB 30-75 H = 300-1000	SMB 2T H > 1000-3000
			

H	D_{MP}	D
300 - 369	69	242
370 - 484	140	311
485 - 678	240	411
680 - 1000	445	621

Version Charleston Clinic, dimensions for the drilling holes when using EasyFix brackets

For height mm	SMB 2T H = 260-290	SMB 30-75 H = 300-1000	SMB 2T H > 1100-3000
			

H	D_{MP}	D
300 - 369	69	242
370 - 484	140	311
485 - 678	240	411
680 - 1000	445	621

The number of brackets supplied is based on length of radiator
For connection type 223/443, the bracket must be offset inwards by 1 element

H = Height of radiator
• = Position of drill hole
D = Dimension from underside of radiator to upper drill hole
D_{MP} = Spacing of drill holes
Dimensions in mm

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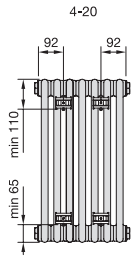
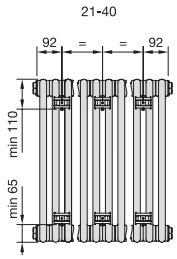
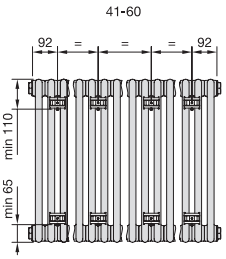
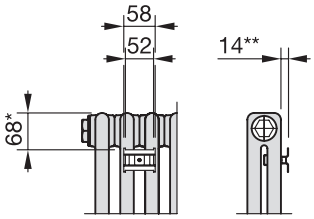
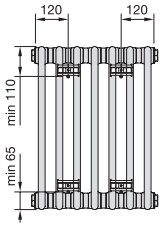
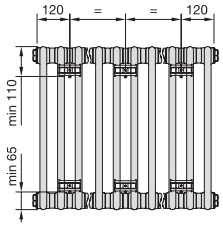
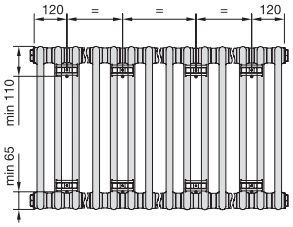
Version Charleston, dimensions for the drilling holes when using CVD brackets (upper drill hole)

Number of fixings	2 axes / 4 brackets	3 axes / 6 brackets	4 axes / 8 brackets
		 If there is an odd number of elements then the middle axis is offset by 23 mm.	

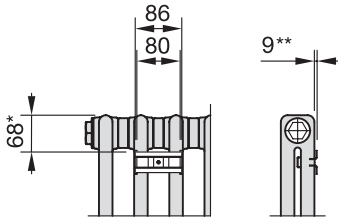
Detail of suspension



Version Charleston Clinic, dimensions for the drilling holes when using CVD brackets (upper drill hole)

Number of fixings	2 axes / 4 brackets	3 axes / 6 brackets	4 axes / 8 brackets
		 If there is an odd number of elements then the middle axis is offset by 23 mm.	

Detail of suspension



The number of brackets supplied is based on length of radiator

Dimensions in mm

• = Position of drill hole
L = Length
H = Height

* = Smallest possible dimension
** = Front edge of bracket to radiator

Colour System

Architectural

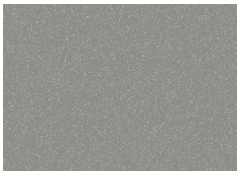
Matt White
0556 - Matt

White Quartz
0521

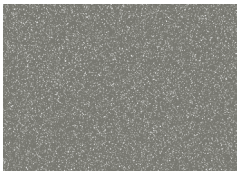
Pure White
9210 - Matt
9010 - Glossy

Inox Look
0332 - Glossy

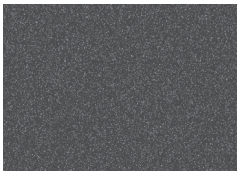
White Aluminium
9206 - Matt
9006 - Glossy



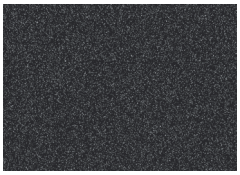
Titane
0335



Grey Aluminium
9207 - Matt
9007 - Glossy



Anthracite
0346



Volcanic
0336

Anthracite Grey
7216 - Matt
7016 - Glossy

Traffic Black
9217 - Matt
9017 - Glossy

Jet Black
9205 - Matt
9005 - Glossy

Matt Black
0557 - Matt

Black Quartz
0550

Tonic

Lemon
0515 - Glossy

Traffic Yellow
1223 - Matt
1023 - Glossy

Orange Quartz
0528

Flame Red
3200 - Matt
3000 - Glossy

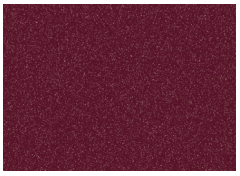
Ruby Red
3203 - Matt
3003 - Glossy

Mauve
0517 - Glossy

Violet
0518 - Glossy

Strawberry
3770 - Matt
3470 - Glossy

Dark Purple
0848 - Matt



Amethyst Quartz
0516

Lichen
8723 - Matt
8423 - Glossy

Spring Green
0846 - Matt

Pacific Blue
0519 - Matt

Horizon Blue
0520 - Glossy

Prussian Blue
0555 - Glossy

Some colours/surface finishes are only available for selected products.
Deviations are possible (shade and shine) due to the different manufacturing techniques used for the original colours. RAL and NCS are manufacturer designations.

This colour chart only represents the range of Zehnder colours available. It is not representative of the actual colour finish. Please ask for a colour chart from which to confirm your selection before placing your order.

Natural

Edelweiss
0067 - Matt

Cream
9201 - Matt
9001 - Glossy

Pergamon
0281 - Matt
0081- Glossy

Jasmin
0072 - Matt

Oyster White
1213 - Matt
1013 - Gloss

Grey White
9202 - Matt
9002 - Glossy

Chinchilla
0064 - Matt

Manhattan
0277 - Mat
0077 - Glossy

Natura
0235 - Matt
0035 - Glossy

Bahama
0254 - Matt
0054 - Glossy

Petal
0510 - Glossy

Sand Quartz
0522

Beige Quartz
0523

Caramel Quartz
0511

Terracotta Quartz
0512

Gold Look
0514

Brown Quartz
0529

Dark Brown
0847 - Matt

Chocolate Brown
8217 - Matt
8017 - Glossy

Standard

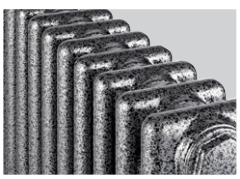
Traffic White
9216 - Matt (Incurs +25% colour surcharge)
9016 - Glossy

Surfaces

Chrome
0008

Stainless Steel
Only available for stainless steel radiators

Technoline (Clear)
Bare-metal lacquer glossy finish 0325. Only available for Charleston range excluding NZ-030-100.



Black-silver hammered finish
0422.

Copper-black hammered finish
0421.

Conversion factors f_1 for ∅T temperature differences other than 50 K (EN 442)

$$f_1 = \left(\frac{\varnothing T}{50}\right)^n$$

∅T K \ n	1,16	1,17	1,18	1,19	1,20	1,21	1,22	1,23	1,24	1,25	1,26	1,27	1,28	1,29	1,30
10	0,1546	0,1521	0,1497	0,1473	0,1450	0,1426	0,1404	0,1381	0,1359	0,1337	0,1316	0,1295	0,1274	0,1254	0,1234
11	0,1727	0,1701	0,1675	0,1650	0,1625	0,1601	0,1577	0,1553	0,1530	0,1507	0,1484	0,1462	0,1440	0,1418	0,1397
12	0,1910	0,1883	0,1856	0,1830	0,1804	0,1779	0,1753	0,1728	0,1704	0,1680	0,1656	0,1633	0,1609	0,1587	0,1564
13	0,2096	0,2068	0,2040	0,2013	0,1986	0,1959	0,1933	0,1907	0,1882	0,1857	0,1832	0,1807	0,1783	0,1759	0,1736
14	0,2284	0,2255	0,2227	0,2198	0,2171	0,2143	0,2116	0,2089	0,2063	0,2037	0,2011	0,1986	0,1960	0,1936	0,1911
15	0,2474	0,2445	0,2415	0,2387	0,2358	0,2330	0,2302	0,2274	0,2247	0,2220	0,2194	0,2167	0,2141	0,2116	0,2091
16	0,2667	0,2636	0,2607	0,2577	0,2548	0,2519	0,2490	0,2462	0,2434	0,2407	0,2380	0,2353	0,2326	0,2300	0,2274
17	0,2861	0,2830	0,2800	0,2770	0,2740	0,2711	0,2682	0,2653	0,2624	0,2596	0,2568	0,2541	0,2514	0,2487	0,2460
18	0,3057	0,3026	0,2995	0,2965	0,2935	0,2905	0,2875	0,2846	0,2817	0,2789	0,2760	0,2732	0,2704	0,2677	0,2650
19	0,3255	0,3224	0,3193	0,3162	0,3131	0,3101	0,3071	0,3042	0,3013	0,2984	0,2955	0,2926	0,2898	0,2870	0,2843
20	0,3455	0,3423	0,3392	0,3361	0,3330	0,3300	0,3270	0,3240	0,3210	0,3181	0,3152	0,3123	0,3095	0,3067	0,3039
21	0,3656	0,3624	0,3593	0,3562	0,3531	0,3501	0,3470	0,3440	0,3411	0,3381	0,3352	0,3323	0,3294	0,3266	0,3238
22	0,3858	0,3827	0,3796	0,3765	0,3734	0,3703	0,3673	0,3643	0,3613	0,3584	0,3554	0,3525	0,3496	0,3468	0,3439
23	0,4063	0,4031	0,4000	0,3969	0,3938	0,3908	0,3878	0,3848	0,3818	0,3788	0,3759	0,3730	0,3701	0,3672	0,3644
24	0,4268	0,4237	0,4206	0,4175	0,4145	0,4114	0,4084	0,4054	0,4025	0,3995	0,3966	0,3937	0,3908	0,3880	0,3851
25	0,4475	0,4444	0,4414	0,4383	0,4353	0,4323	0,4293	0,4263	0,4234	0,4204	0,4175	0,4147	0,4118	0,4090	0,4061
26	0,4683	0,4653	0,4623	0,4592	0,4563	0,4533	0,4503	0,4474	0,4445	0,4416	0,4387	0,4358	0,4330	0,4302	0,4274
27	0,4893	0,4863	0,4833	0,4803	0,4774	0,4745	0,4715	0,4686	0,4658	0,4629	0,4601	0,4572	0,4544	0,4516	0,4489
28	0,5104	0,5074	0,5045	0,5016	0,4987	0,4958	0,4929	0,4901	0,4873	0,4844	0,4816	0,4788	0,4761	0,4733	0,4706
29	0,5316	0,5287	0,5258	0,5230	0,5201	0,5173	0,5145	0,5117	0,5089	0,5062	0,5034	0,5007	0,4980	0,4952	0,4926
30	0,5529	0,5501	0,5473	0,5445	0,5417	0,5390	0,5362	0,5335	0,5308	0,5281	0,5254	0,5227	0,5200	0,5174	0,5148
31	0,5743	0,5716	0,5689	0,5662	0,5635	0,5608	0,5581	0,5554	0,5528	0,5502	0,5475	0,5449	0,5423	0,5397	0,5372
32	0,5959	0,5932	0,5906	0,5880	0,5854	0,5827	0,5801	0,5776	0,5750	0,5724	0,5699	0,5673	0,5648	0,5623	0,5598
33	0,6175	0,6150	0,6124	0,6099	0,6074	0,6049	0,6023	0,5998	0,5974	0,5949	0,5924	0,5900	0,5875	0,5851	0,5826
34	0,6393	0,6368	0,6344	0,6320	0,6295	0,6271	0,6247	0,6223	0,6199	0,6175	0,6151	0,6128	0,6104	0,6080	0,6057
35	0,6612	0,6588	0,6565	0,6541	0,6518	0,6495	0,6472	0,6449	0,6426	0,6403	0,6380	0,6357	0,6335	0,6312	0,6290
36	0,6831	0,6809	0,6787	0,6764	0,6742	0,6720	0,6698	0,6676	0,6654	0,6632	0,6611	0,6589	0,6567	0,6546	0,6524
37	0,7052	0,7031	0,7010	0,6989	0,6968	0,6947	0,6926	0,6905	0,6884	0,6863	0,6843	0,6822	0,6802	0,6781	0,6761
38	0,7274	0,7254	0,7234	0,7214	0,7194	0,7174	0,7155	0,7135	0,7116	0,7096	0,7077	0,7057	0,7038	0,7019	0,6999
39	0,7496	0,7477	0,7459	0,7440	0,7422	0,7403	0,7385	0,7367	0,7348	0,7330	0,7312	0,7294	0,7276	0,7258	0,7240
40	0,7719	0,7702	0,7685	0,7668	0,7651	0,7634	0,7617	0,7600	0,7583	0,7566	0,7549	0,7532	0,7515	0,7499	0,7482
41	0,7944	0,7928	0,7912	0,7897	0,7881	0,7865	0,7850	0,7834	0,7819	0,7803	0,7788	0,7772	0,7757	0,7741	0,7726
42	0,8169	0,8155	0,8140	0,8126	0,8112	0,8098	0,8084	0,8070	0,8056	0,8042	0,8028	0,8014	0,8000	0,7986	0,7972
43	0,8395	0,8382	0,8370	0,8357	0,8344	0,8332	0,8319	0,8307	0,8294	0,8282	0,8269	0,8257	0,8244	0,8232	0,8220
44	0,8622	0,8611	0,8600	0,8589	0,8578	0,8567	0,8556	0,8545	0,8534	0,8523	0,8512	0,8501	0,8491	0,8480	0,8469
45	0,8850	0,8840	0,8831	0,8822	0,8812	0,8803	0,8794	0,8785	0,8775	0,8766	0,8757	0,8748	0,8738	0,8729	0,8720
46	0,9078	0,9071	0,9063	0,9055	0,9048	0,9040	0,9033	0,9025	0,9018	0,9010	0,9003	0,8995	0,8988	0,8980	0,8973
47	0,9307	0,9302	0,9296	0,9290	0,9284	0,9279	0,9273	0,9267	0,9261	0,9256	0,9250	0,9244	0,9239	0,9233	0,9227
48	0,9538	0,9534	0,9530	0,9526	0,9522	0,9518	0,9514	0,9510	0,9506	0,9503	0,9499	0,9495	0,9491	0,9487	0,9483
49	0,9768	0,9766	0,9764	0,9762	0,9760	0,9759	0,9757	0,9755	0,9753	0,9751	0,9749	0,9747	0,9745	0,9743	0,9741
50	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000
51	1,0232	1,0234	1,0236	1,0238	1,0240	1,0243	1,0245	1,0247	1,0249	1,0251	1,0253	1,0255	1,0257	1,0259	1,0261
52	1,0465	1,0470	1,0474	1,0478	1,0482	1,0486	1,0490	1,0494	1,0498	1,0502	1,0507	1,0511	1,0515	1,0519	1,0523
53	1,0699	1,0706	1,0712	1,0718	1,0724	1,0731	1,0737	1,0743	1,0749	1,0756	1,0762	1,0768	1,0774	1,0781	1,0787
54	1,0934	1,0942	1,0951	1,0959	1,0968	1,0976	1,0984	1,0993	1,1001	1,1010	1,1018	1,1027	1,1035	1,1044	1,1052
55	1,1169	1,1180	1,1190	1,1201	1,1212	1,1222	1,1233	1,1244	1,1255	1,1265	1,1276	1,1287	1,1298	1,1308	1,1319
56	1,1405	1,1418	1,1431	1,1444	1,1457	1,1470	1,1483	1,1496	1,1509	1,1522	1,1535	1,1548	1,1561	1,1574	1,1587
57	1,1642	1,1657	1,1672	1,1687	1,1703	1,1718	1,1733	1,1749	1,1764	1,1780	1,1795	1,1811	1,1826	1,1842	1,1857
58	1,1879	1,1896	1,1914	1,1932	1,1949	1,1967	1,1985	1,2003	1,2021	1,2039	1,2056	1,2074	1,2092	1,2110	1,2128
59	1,2117	1,2137	1,2157	1,2177	1,2197	1,2217	1,2238	1,2258	1,2278	1,2299	1,2319	1,2339	1,2360	1,2380	1,2401
60	1,2355	1,2378	1,2400	1,2423	1,2446	1,2468	1,2491	1,2514	1,2537	1,2560	1,2583	1,2606	1,2629	1,2652	1,2675
61	1,2594	1,2619	1,2645	1,2670	1,2695	1,2720	1,2746	1,2771	1,2796	1,2822	1,2847	1,2873	1,2899	1,2924	1,2950
62	1,2834	1,2862	1,2890	1,2917	1,2945	1,2973	1,3001	1,3029	1,3057	1,3085	1,3113	1,3142	1,3170	1,3198	1,3227
63	1,3075	1,3105	1,3135	1,3166	1,3196	1,3227	1,3257	1,3288	1,3319	1,3349	1,3380	1,3411	1,3442	1,3473	1,3505
64	1,3316	1,3349	1,3382	1,3415	1,3448	1,3481	1,3514	1,3548	1,3581	1,3615	1,3648	1,3682	1,3716	1,3750	1,3784
65	1,3557	1,3593	1,3629	1,3664	1,3700	1,3736	1,3772	1,3809	1,3845	1,3881	1,3918	1,3954	1,3991	1,4028	1,4065
66	1,3800	1,3838	1,3876	1,3915	1,3954	1,3992	1,4031	1,4070	1,4110	1,4149	1,4188	1,4228	1,4267	1,4307	1,4347
67	1,4042	1,4084	1,4125	1,4166	1,4208	1,4249	1,4291	1,4333	1,4375	1,4417	1,4459	1,4502	1,4544	1,4587	1,4630
68	1,4286	1,4330	1,4374	1,4418	1,4463	1,4507	1,4552	1,4597	1,4642	1,4687	1,4732	1,4777	1,4823	1,4868	1,4914
69	1,4530	1,4577	1,4624	1,4671	1,4718	1,4766	1,4813	1,4861	1,4909	1,4957	1,5005	1,5054	1,5102	1,5151	1,5200
70	1,4774	1,4824	1,4874	1,4924	1,4975	1,5025	1,5076	1,5126	1,5177	1,5229	1,5280	1,5331	1,5383	1,5435	1,5487
∅T K \ n	1,16	1,17	1,18	1,19	1,20	1,21	1,22	1,23	1,24	1,25	1,26	1,27	1,28	1,29	1,30

1,31	1,32	1,33	1,34	1,35	1,36	1,37	1,38	1,39	1,40	1,41	1,42	1,43	1,44	1,45	n / ØT K
0,1214	0,1195	0,1176	0,1157	0,1139	0,1120	0,1103	0,1085	0,1068	0,1051	0,1034	0,1017	0,1001	0,0985	0,0969	**10**
0,1376	0,1355	0,1335	0,1315	0,1295	0,1276	0,1256	0,1237	0,1219	0,1201	0,1183	0,1165	0,1147	0,1130	0,1113	**11**
0,1542	0,1520	0,1499	0,1477	0,1456	0,1436	0,1415	0,1395	0,1376	0,1356	0,1337	0,1318	0,1299	0,1281	0,1263	**12**
0,1712	0,1690	0,1667	0,1645	0,1623	0,1601	0,1579	0,1558	0,1537	0,1517	0,1497	0,1477	0,1457	0,1437	0,1418	**13**
0,1887	0,1863	0,1840	0,1816	0,1793	0,1771	0,1748	0,1726	0,1704	0,1683	0,1661	0,1640	0,1620	0,1599	0,1579	**14**
0,2066	0,2041	0,2016	0,1992	0,1968	0,1945	0,1922	0,1899	0,1876	0,1853	0,1831	0,1809	0,1788	0,1766	0,1745	**15**
0,2248	0,2222	0,2197	0,2172	0,2148	0,2123	0,2099	0,2075	0,2052	0,2029	0,2006	0,1983	0,1960	0,1938	0,1916	**16**
0,2434	0,2407	0,2382	0,2356	0,2331	0,2306	0,2281	0,2257	0,2232	0,2208	0,2185	0,2161	0,2138	0,2115	0,2092	**17**
0,2623	0,2596	0,2570	0,2544	0,2518	0,2492	0,2467	0,2442	0,2417	0,2392	0,2368	0,2344	0,2320	0,2297	0,2273	**18**
0,2815	0,2788	0,2761	0,2735	0,2708	0,2682	0,2656	0,2631	0,2606	0,2580	0,2556	0,2531	0,2507	0,2482	0,2459	**19**
0,3011	0,2983	0,2956	0,2929	0,2903	0,2876	0,2850	0,2824	0,2798	0,2773	0,2747	0,2722	0,2697	0,2673	0,2648	**20**
0,3210	0,3182	0,3154	0,3127	0,3100	0,3073	0,3047	0,3021	0,2994	0,2969	0,2943	0,2918	0,2892	0,2867	0,2843	**21**
0,3411	0,3383	0,3356	0,3328	0,3301	0,3274	0,3247	0,3221	0,3194	0,3168	0,3142	0,3117	0,3091	0,3066	0,3041	**22**
0,3616	0,3588	0,3560	0,3533	0,3505	0,3478	0,3451	0,3425	0,3398	0,3372	0,3346	0,3320	0,3294	0,3269	0,3243	**23**
0,3823	0,3795	0,3767	0,3740	0,3713	0,3685	0,3658	0,3632	0,3605	0,3579	0,3553	0,3527	0,3501	0,3475	0,3450	**24**
0,4033	0,4005	0,3978	0,3950	0,3923	0,3896	0,3869	0,3842	0,3816	0,3789	0,3763	0,3737	0,3711	0,3686	0,3660	**25**
0,4246	0,4218	0,4191	0,4163	0,4136	0,4109	0,4082	0,4056	0,4029	0,4003	0,3977	0,3951	0,3925	0,3900	0,3874	**26**
0,4461	0,4434	0,4406	0,4379	0,4352	0,4326	0,4299	0,4273	0,4246	0,4220	0,4194	0,4169	0,4143	0,4118	0,4092	**27**
0,4679	0,4652	0,4625	0,4598	0,4571	0,4545	0,4519	0,4493	0,4467	0,4441	0,4415	0,4390	0,4364	0,4339	0,4314	**28**
0,4899	0,4872	0,4846	0,4819	0,4793	0,4767	0,4741	0,4716	0,4690	0,4664	0,4639	0,4614	0,4589	0,4564	0,4539	**29**
0,5121	0,5095	0,5069	0,5043	0,5018	0,4992	0,4967	0,4941	0,4916	0,4891	0,4866	0,4841	0,4817	0,4792	0,4768	**30**
0,5346	0,5321	0,5295	0,5270	0,5245	0,5220	0,5195	0,5170	0,5145	0,5121	0,5097	0,5072	0,5048	0,5024	0,5000	**31**
0,5573	0,5548	0,5524	0,5499	0,5474	0,5450	0,5426	0,5402	0,5378	0,5354	0,5330	0,5306	0,5282	0,5259	0,5236	**32**
0,5802	0,5778	0,5754	0,5730	0,5707	0,5683	0,5659	0,5636	0,5613	0,5589	0,5566	0,5543	0,5520	0,5497	0,5474	**33**
0,6034	0,6011	0,5987	0,5964	0,5941	0,5919	0,5896	0,5873	0,5850	0,5828	0,5805	0,5783	0,5761	0,5739	0,5717	**34**
0,6267	0,6245	0,6223	0,6201	0,6178	0,6156	0,6135	0,6113	0,6091	0,6069	0,6048	0,6026	0,6005	0,5983	0,5962	**35**
0,6503	0,6482	0,6460	0,6439	0,6418	0,6397	0,6376	0,6355	0,6334	0,6313	0,6293	0,6272	0,6252	0,6231	0,6211	**36**
0,6741	0,6720	0,6700	0,6680	0,6660	0,6640	0,6620	0,6600	0,6580	0,6560	0,6541	0,6521	0,6501	0,6482	0,6462	**37**
0,6980	0,6961	0,6942	0,6923	0,6904	0,6885	0,6866	0,6847	0,6829	0,6810	0,6791	0,6773	0,6754	0,6736	0,6717	**38**
0,7222	0,7204	0,7186	0,7168	0,7150	0,7133	0,7115	0,7097	0,7080	0,7062	0,7045	0,7027	0,7010	0,6992	0,6975	**39**
0,7465	0,7449	0,7432	0,7416	0,7399	0,7382	0,7366	0,7350	0,7333	0,7317	0,7301	0,7284	0,7268	0,7252	0,7236	**40**
0,7711	0,7695	0,7680	0,7665	0,7650	0,7635	0,7619	0,7604	0,7589	0,7574	0,7559	0,7544	0,7529	0,7514	0,7499	**41**
0,7958	0,7944	0,7930	0,7917	0,7903	0,7889	0,7875	0,7861	0,7848	0,7834	0,7820	0,7807	0,7793	0,7780	0,7766	**42**
0,8207	0,8195	0,8182	0,8170	0,8158	0,8146	0,8133	0,8121	0,8109	0,8097	0,8084	0,8072	0,8060	0,8048	0,8036	**43**
0,8458	0,8447	0,8436	0,8426	0,8415	0,8404	0,8393	0,8383	0,8372	0,8361	0,8351	0,8340	0,8329	0,8319	0,8308	**44**
0,8711	0,8702	0,8692	0,8683	0,8674	0,8665	0,8656	0,8647	0,8638	0,8629	0,8619	0,8610	0,8601	0,8592	0,8583	**45**
0,8965	0,8958	0,8950	0,8943	0,8935	0,8928	0,8921	0,8913	0,8906	0,8898	0,8891	0,8883	0,8876	0,8869	0,8861	**46**
0,9221	0,9216	0,9210	0,9204	0,9199	0,9193	0,9187	0,9182	0,9176	0,9170	0,9165	0,9159	0,9153	0,9148	0,9142	**47**
0,9479	0,9475	0,9472	0,9468	0,9464	0,9460	0,9456	0,9452	0,9448	0,9445	0,9441	0,9437	0,9433	0,9429	0,9425	**48**
0,9739	0,9737	0,9735	0,9733	0,9731	0,9729	0,9727	0,9725	0,9723	0,9721	0,9719	0,9717	0,9715	0,9713	0,9711	**49**
1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	**50**
1,0263	1,0265	1,0267	1,0269	1,0271	1,0273	1,0275	1,0277	1,0279	1,0281	1,0283	1,0285	1,0287	1,0289	1,0291	**51**
1,0527	1,0531	1,0535	1,0540	1,0544	1,0548	1,0552	1,0556	1,0560	1,0564	1,0569	1,0573	1,0577	1,0581	1,0585	**52**
1,0793	1,0800	1,0806	1,0812	1,0818	1,0825	1,0831	1,0837	1,0844	1,0850	1,0856	1,0863	1,0869	1,0875	1,0882	**53**
1,1061	1,1069	1,1078	1,1086	1,1095	1,1103	1,1112	1,1121	1,1129	1,1138	1,1146	1,1155	1,1163	1,1172	1,1181	**54**
1,1330	1,1341	1,1351	1,1362	1,1373	1,1384	1,1395	1,1406	1,1417	1,1427	1,1438	1,1449	1,1460	1,1471	1,1482	**55**
1,1600	1,1614	1,1627	1,1640	1,1653	1,1666	1,1680	1,1693	1,1706	1,1719	1,1733	1,1746	1,1759	1,1773	1,1786	**56**
1,1873	1,1888	1,1904	1,1919	1,1935	1,1951	1,1966	1,1982	1,1998	1,2013	1,2029	1,2045	1,2061	1,2077	1,2092	**57**
1,2146	1,2164	1,2182	1,2200	1,2219	1,2237	1,2255	1,2273	1,2291	1,2310	1,2328	1,2346	1,2364	1,2383	1,2401	**58**
1,2421	1,2442	1,2462	1,2483	1,2504	1,2524	1,2545	1,2566	1,2587	1,2608	1,2629	1,2649	1,2670	1,2691	1,2712	**59**
1,2698	1,2721	1,2744	1,2767	1,2791	1,2814	1,2837	1,2861	1,2884	1,2908	1,2931	1,2955	1,2979	1,3002	1,3026	**60**
1,2976	1,3002	1,3027	1,3053	1,3079	1,3105	1,3131	1,3158	1,3184	1,3210	1,3236	1,3263	1,3289	1,3316	1,3342	**61**
1,3255	1,3284	1,3312	1,3341	1,3370	1,3398	1,3427	1,3456	1,3485	1,3514	1,3543	1,3572	1,3602	1,3631	1,3660	**62**
1,3536	1,3567	1,3599	1,3630	1,3662	1,3693	1,3725	1,3757	1,3788	1,3820	1,3852	1,3884	1,3916	1,3949	1,3981	**63**
1,3818	1,3852	1,3886	1,3921	1,3955	1,3990	1,4024	1,4059	1,4094	1,4128	1,4163	1,4198	1,4233	1,4269	1,4304	**64**
1,4102	1,4139	1,4176	1,4213	1,4250	1,4288	1,4325	1,4363	1,4401	1,4438	1,4476	1,4514	1,4553	1,4591	1,4629	**65**
1,4386	1,4426	1,4466	1,4507	1,4547	1,4587	1,4628	1,4669	1,4709	1,4750	1,4791	1,4833	1,4874	1,4915	1,4957	**66**
1,4673	1,4716	1,4759	1,4802	1,4845	1,4889	1,4933	1,4976	1,5020	1,5064	1,5108	1,5153	1,5197	1,5242	1,5286	**67**
1,4960	1,5006	1,5052	1,5099	1,5145	1,5192	1,5239	1,5286	1,5333	1,5380	1,5427	1,5475	1,5522	1,5570	1,5618	**68**
1,5249	1,5298	1,5348	1,5397	1,5447	1,5497	1,5547	1,5597	1,5647	1,5698	1,5748	1,5799	1,5850	1,5901	1,5952	**69**
1,5539	1,5592	1,5644	1,5697	1,5750	1,5803	1,5856	1,5910	1,5963	1,6017	1,6071	1,6125	1,6179	1,6234	1,6289	**70**
1,31	**1,32**	**1,33**	**1,34**	**1,35**	**1,36**	**1,37**	**1,38**	**1,39**	**1,40**	**1,41**	**1,42**	**1,43**	**1,44**	**1,45**	**ØT K / n**

Zehnder Group UK · Watchmoor Point · Camberley · Surrey · GU15 3AD
T +44 (0) 1276 605800 · sales@zehnder.co.uk · www.zehnder.co.uk
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