

Zehnder Roda

Prices and Technology 2023 - Sales International

always the best climate



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 five 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.



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.

OUR BRAND REPRESENTS INNOVATION, QUALITY AND DESIGN



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



First choice for customers

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

INNOVATION OVER 5 GENERATIONS

MANUFACTURER
OF THE WORLD'S

1st

STEEL AND BATHROOM
RADIATORS

REPRESENTED
IN MORE THAN

70 COUNTRIES

AROUND
3,500
EMPLOYEES

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

INNOVATION SINCE **1895**

AROUND

40,000

TRAINED CUSTOMERS PER YEAR

900 PATENTS
AND DESIGN RIGHTS
THROUGHOUT
THE WORLD

INDOOR CLIMATE



Decorative radiators

Our individual decorative radiators make every room – whether at home or in commercial or public buildings – not only warmer, but also more attractive. They combine iconic design with outstanding comfort experience.



Heating and cooling ceiling

The ceiling is the perfect place to supply a room with convenient heating and cooling. Energy-efficient climate via radiant panels work perfectly with our suite of solutions from office to manufacturing spaces.



Clean air solutions

Air cleaning systems from Zehnder effectively reduce the amount of dust and other particles in the air. The result: clean working environments, significantly improved employee health and enhanced business performance.

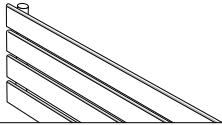
BEST QUALITY CERTIFICATES

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



General Sales and Delivery Conditions:

Our General Sales and Delivery Conditions apply. You can find these under “Legal notice” on our homepage at www.international.zehnder-systems.com.

Heating panels	Zehnder Roda			5
Accessories	Zehnder rails and hooks			
	Miscellaneous			46
	Thermostats and valves			
General	Keyword list			
	Pressure loss graph, conversion table			54
	Zehnder comfortable indoor ventilation			

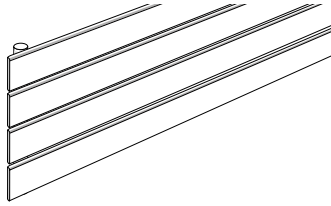


	Overview of models	Product description	List prices	Special versions	Connections	Fixings	Technical data	Installation points
Zehnder Roda - horizontal models								
 ■ Horizontal profile tubes ■ Wide range of models ■ Short response time	6	8	9	28	29	33	38	43
Zehnder Roda - vertical models								
 ■ Vertical profile tubes ■ Modern design ■ Small depth	7	8	19	28	31	35	41	45

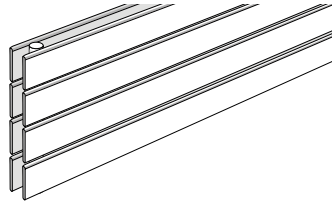
Zehnder Roda



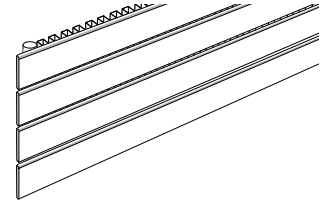
Zehnder Roda Horizontal



ROH



ROHD



ROHL

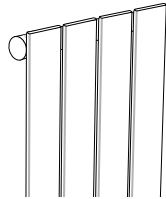
Height ¹⁾ mm	Depth mm		
	47	55	60
148	ROH14	ROHD14	ROHL-014/014
222	ROH22	ROHD22	ROHL-022/022
296	ROH30	ROHD30	ROHL-030/030
370	ROH37	ROHD37	ROHL-037/030
444	ROH44	ROHD44	ROHL-044/030, ROHL-044/044
518	ROH52	ROHD52	ROHL-052/030, ROHL-052/044
592	ROH60	ROHD60	ROHL-060/030, ROHL-060/044, ROHL-060/060
666	ROH67	ROHD67	ROHL-067/030, ROHL-067/044, ROHL-067/060
740	ROH74	ROHD74	ROHL-074/030, ROHL-074/044, ROHL-074/060
814	ROH81	ROHD81	
888	ROH89	ROHD89	
962	ROH96	ROHD96	
1036	ROH104	ROHD104	
1110	ROH111	ROHD111	
1184	ROH118	ROHD118	
1258	ROH126	ROHD126	
1332	ROH133	ROHD133	
1406	ROH140	ROHD140	
1480	ROH148	ROHD148	

¹⁾ The values specified here are the so-called nominal height; the exact height varies by a few millimetres.

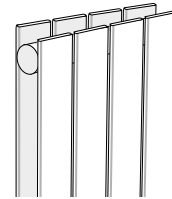
Zehnder Roda



Zehnder Roda Vertical



ROV



ROVD

Height ¹⁾ mm	Depth mm	
	47	55
500	ROV50	ROVD50
600	ROV60	ROVD60
700	ROV70	ROVD70
800	ROV80	ROVD80
900	ROV90	ROVD90
1000	ROV100	ROVD100
1100	ROV110	ROVD110
1200	ROV120	ROVD120
1300	ROV130	ROVD130
1400	ROV140	ROVD140
1500	ROV150	ROVD150
1600	ROV160	ROVD160
1700	ROV170	ROVD170
1800	ROV180	ROVD180
1900	ROV190	ROVD190
2000	ROV200	ROVD200
2100	ROV210	ROVD210
2200	ROV220	ROVD220
2300	ROV230	ROVD230
2400	ROV240	ROVD240
2500	ROV250	ROVD250
2600	ROV260	ROVD260
2700	ROV270	ROVD270
2800	ROV280	ROVD280
2900	ROV290	ROVD290
3000	ROV300	ROVD300

¹⁾ The values specified here are the so-called nominal height; the exact height varies by a few millimetres.

Zehnder Roda



Zehnder Roda (horizontal)



Zehnder Roda (vertical)

Product description

Ideal for entrance halls, kitchens and bathrooms. Zehnder Roda takes up hardly any room. Actually it creates space! The benefits of a radiator made from individual tubes come together elegantly with the look of a flat radiator. For Zehnder Roda, this is done without visible welds and roundings, while straight tubing with 4 mm spacing in a horizontal or vertical direction forms the basic structure. The targeted channelling of water within the radiator enables a variety of connection options with assured thermal output.

Available in all colours and surfaces from the Zehnder colour chart.

Technical data

- Flat tubes 70 x 11 mm
- Maximum operating pressure 4 bar
- Maximum operating temperature 110 °C
- Priming and powder coating to DIN 55900
- Thermal output tested to EN 442, with CE marking

Customisation options

- Room divider version
- Double cardboard packaging
- Additional support by feet

Advantages

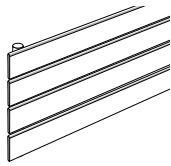
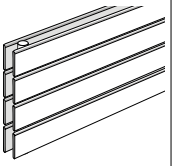
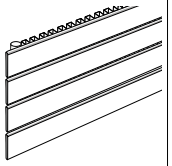
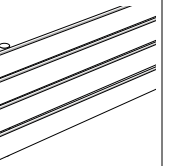
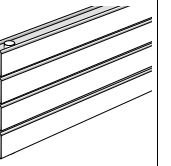
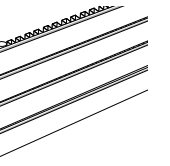
- Various connection options
- Wall brackets included, enclosed in packaging
- Wide range of elegant accessories for a variety of combination options
- Wide range of models supports versatile use
- Short response time means rooms can be heated up rapidly
- High thermal output means large rooms are heated up rapidly

Scope of delivery for standard version

- Primed and painted in RAL 9016
- 2 x ½" connections for flow, return
- 1 x ⅛" chrome-plated directional air vent
- 1 x ⅛" chrome-plated blanking plug
- Wall brackets in colour of radiator including
- With welded lugs at rear
- Packaging in film and cardboard

Zehnder Roda


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

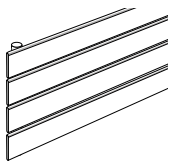
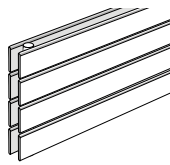
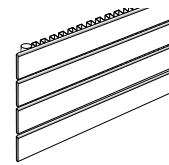
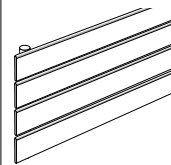
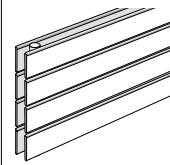
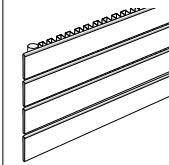
Height mm		148						222					
													
Model		ROH14	ROHD14	ROHL-014/014	ROH22	ROHD22	ROHL-022/022						
Depth	mm	47	55	60	47	55	60						
Height of fins	mm	-	-	134	-	-	208						
Exponent	n	1,27	1,25	1,14	1,27	1,26	1,26						
Basic price	€	153,37	214,12	335,62	165,53	224,75	382,69						
Price/metre	€	74,42	142,76	74,42	85,03	148,82	88,09						
Length mm	Φ_s		Φ_s		Φ_s		Φ_s		Φ_s		Φ_s		Price
	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	
500	89	190,58	164	285,50	175	372,83	131	208,05	231	299,16	256	426,74	
600	107	198,02	197	299,78	210	380,27	157	216,55	277	314,04	307	435,54	
700	125	205,46	230	314,05	245	387,71	183	225,05	323	328,92	358	444,35	
800	142	212,91	262	328,33	280	395,16	210	233,55	370	343,81	409	453,16	
900	160	220,35	295	342,60	315	402,60	236	242,06	416	358,69	460	461,97	
1000	178	227,79	328	356,88	350	410,04	262	250,56	462	373,57	511	470,78	
1100	196	235,23	361	371,16	385	417,48	288	259,06	508	388,45	562	479,59	
1200	214	242,67	394	385,43	420	424,92	314	267,57	554	403,33	613	488,40	
1300	231	250,12	426	399,71	455	432,37	341	276,07	601	418,22	664	497,21	
1400	249	257,56	459	413,98	490	439,81	367	284,57	647	433,10	715	506,02	
1500	267	265,00	492	428,26	525	447,25	393	293,08	693	447,98	767	514,83	
1600	285	272,44	525	442,54	560	454,69	419	301,58	739	462,86	818	523,63	
1700	303	279,88	558	456,81	595	462,13	445	310,08	785	477,74	869	532,44	
1800	320	287,33	590	471,09	630	469,58	472	318,58	832	492,63	920	541,25	
1900	338	294,77	623	485,36	665	477,02	498	327,09	878	507,51	971	550,06	
2000	356	302,21	656	499,64	700	484,46	524	335,59	924	522,39	1022	558,87	
2100	374	309,65	689	513,92	735	491,90	550	344,09	970	537,27	1073	567,68	
2200	392	317,09	722	528,19	770	499,34	576	352,60	1016	552,15	1124	576,49	
2300	409	324,54	754	542,47	805	506,79	603	361,10	1063	567,04	1175	585,30	
2400	427	331,98	787	556,74	840	514,23	629	369,60	1109	581,92	1226	594,11	
2500	445	339,42	820	571,02	875	521,67	655	378,11	1155	596,80	1278	602,92	
2600	463	346,86	853	585,30	910	529,11	681	386,61	1201	611,68	1329	611,72	
2700	481	354,30	886	599,57	945	536,55	707	395,11	1247	626,56	1380	620,53	
2800	498	361,75	918	613,85	980	544,00	734	403,61	1294	641,45	1431	629,34	
2900	516	369,19	951	628,12	1015	551,44	760	412,12	1340	656,33	1482	638,15	
3000	534	376,63	984	642,40	1050	558,88	786	420,62	1386	671,21	1533	646,96	

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

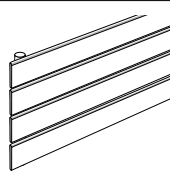
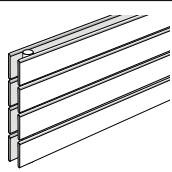
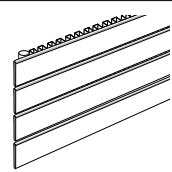
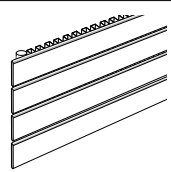
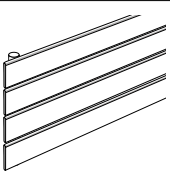
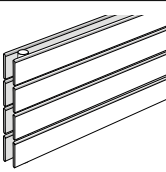
Height		mm	296						370					
														
Model			ROH30		ROHD30		ROHL-030/030		ROH37		ROHD37		ROHL-037/030	
Depth			mm	47	55		60		47		55		60	
Height of fins			mm	-	-		282		-		-		282	
Exponent			n	1,27	1,26		1,26		1,27		1,26		1,27	
Basic price			€	197,43	276,37		426,73		230,83		329,54		443,44	
Price/metre			€	94,14	176,17		97,19		103,27		203,49		97,19	
Length mm			Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price
			Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€
500			172	244,50	296	364,46	319	475,33	213	282,47	358	431,29	360	492,04
600			206	253,91	355	382,07	382	485,04	255	292,79	429	451,63	431	501,75
700			241	263,33	414	399,69	446	494,76	298	303,12	501	471,98	503	511,47
800			275	272,74	473	417,31	510	504,48	340	313,45	572	492,33	575	521,19
900			310	282,16	532	434,92	573	514,20	383	323,77	644	512,68	647	530,91
1000			344	291,57	591	452,54	637	523,92	425	334,10	715	533,03	719	540,63
1100			378	300,98	650	470,16	701	533,64	468	344,43	787	553,38	791	550,35
1200			413	310,40	709	487,77	764	543,36	510	354,75	858	573,73	863	560,07
1300			447	319,81	768	505,39	828	553,08	553	365,08	930	594,08	935	569,79
1400			482	329,23	827	523,01	892	562,80	595	375,41	1001	614,43	1007	579,51
1500			516	338,64	887	540,63	956	572,52	638	385,74	1073	634,78	1079	589,23
1600			550	348,05	946	558,24	1019	582,23	680	396,06	1144	655,12	1150	598,94
1700			585	357,47	1005	575,86	1083	591,95	723	406,39	1216	675,47	1222	608,66
1800			619	366,88	1064	593,48	1147	601,67	765	416,72	1287	695,82	1294	618,38
1900			654	376,30	1123	611,09	1210	611,39	808	427,04	1359	716,17	1366	628,10
2000			688	385,71	1182	628,71	1274	621,11	850	437,37	1430	736,52	1438	637,82
2100			722	395,12	1241	646,33	1338	630,83	893	447,70	1502	756,87	1510	647,54
2200			757	404,54	1300	663,94	1401	640,55	935	458,02	1573	777,22	1582	657,26
2300			791	413,95	1359	681,56	1465	650,27	978	468,35	1645	797,57	1654	666,98
2400			826	423,37	1418	699,18	1529	659,99	1020	478,68	1716	817,92	1726	676,70
2500			860	432,78	1478	716,80	1593	669,71	1063	489,01	1788	838,27	1798	686,42
2600			894	442,19	1537	734,41	1656	679,42	1105	499,33	1859	858,61	1869	696,13
2700			929	451,61	1596	752,03	1720	689,14	1148	509,66	1931	878,96	1941	705,85
2800			963	461,02	1655	769,65	1784	698,86	1190	519,99	2002	899,31	2013	715,57
2900			998	470,44	1714	787,26	1847	708,58	1233	530,31	2074	919,66	2085	725,29
3000			1032	479,85	1773	804,88	1911	718,30	1275	540,64	2145	940,01	2157	735,01

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

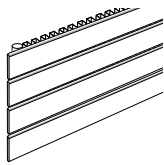
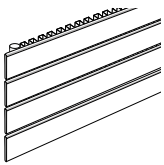
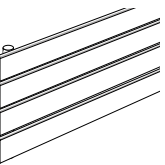
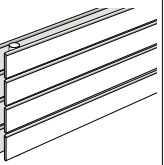
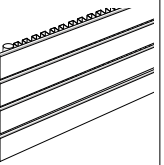
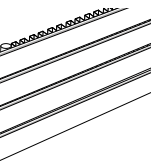
Height		mm	444						518					
														
Model			ROH44		ROHD44		ROHL-044/030		ROHL-044/044		ROH52		ROHD52	
Depth	mm		47		55		60		60		47		55	
Height of fins	mm		-		-		282		410		-		-	
Exponent	n		1,27		1,26		1,29		1,24		1,27		1,26	
Basic price		€	262,72		381,17		449,52		469,23		264,25		385,73	
Price/metre		€	112,36		230,83		97,19		97,19		132,12		259,69	
Length mm		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	
		Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	
500	253	318,90	418	496,59	401	498,12	423	517,83	293	330,31	477	515,58		
600	304	330,14	501	519,67	481	507,83	507	527,54	352	343,52	572	541,54		
700	354	341,37	585	542,75	561	517,55	592	537,26	410	356,73	667	567,51		
800	405	352,61	668	565,83	641	527,27	676	546,98	469	369,95	762	593,48		
900	455	363,84	752	588,92	721	536,99	761	556,70	527	383,16	858	619,45		
1000	506	375,08	835	612,00	801	546,71	845	566,42	586	396,37	953	645,42		
1100	557	386,32	919	635,08	881	556,43	930	576,14	645	409,58	1048	671,39		
1200	607	397,55	1002	658,17	961	566,15	1014	585,86	703	422,79	1144	697,36		
1300	658	408,79	1086	681,25	1041	575,87	1099	595,58	762	436,01	1239	723,33		
1400	708	420,02	1169	704,33	1121	585,59	1183	605,30	820	449,22	1334	749,30		
1500	759	431,26	1253	727,42	1202	595,31	1268	615,02	879	462,43	1430	775,27		
1600	810	442,50	1336	750,50	1282	605,02	1352	624,73	938	475,64	1525	801,23		
1700	860	453,73	1420	773,58	1362	614,74	1437	634,45	996	488,85	1620	827,20		
1800	911	464,97	1503	796,66	1442	624,46	1521	644,17	1055	502,07	1715	853,17		
1900	961	476,20	1587	819,75	1522	634,18	1606	653,89	1113	515,28	1811	879,14		
2000	1012	487,44	1670	842,83	1602	643,90	1690	663,61	1172	528,49	1906	905,11		
2100	1063	498,68	1754	865,91	1682	653,62	1775	673,33	1231	541,70	2001	931,08		
2200	1113	509,91	1837	889,00	1762	663,34	1859	683,05	1289	554,91	2097	957,05		
2300	1164	521,15	1921	912,08	1842	673,06	1944	692,77	1348	568,13	2192	983,02		
2400	1214	532,38	2004	935,16	1922	682,78	2028	702,49	1406	581,34	2287	1.008,99		
2500	1265	543,62	2088	958,25	2003	692,50	2113	712,21	1465	594,55	2383	1.034,96		
2600	1316	554,86	2171	981,33	2083	702,21	2197	721,92	1524	607,76	2478	1.060,92		
2700	1366	566,09	2255	1.004,41	2163	711,93	2282	731,64	1582	620,97	2573	1.086,89		
2800	1417	577,33	2338	1.027,49	2243	721,65	2366	741,36	1641	634,19	2668	1.112,86		
2900	1467	588,56	2422	1.050,58	2323	731,37	2451	751,08	1699	647,40	2764	1.138,83		
3000	1518	599,80	2505	1.073,66	2403	741,09	2535	760,80	1758	660,61	2859	1.164,80		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

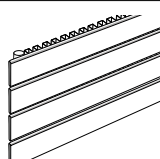
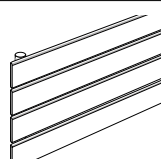
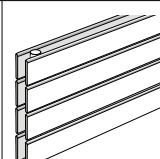
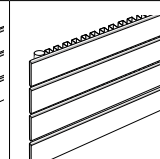
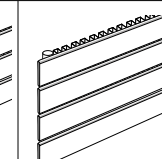
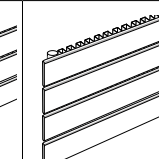
Height		mm	518				592							
														
Model			ROHL-052/030		ROHL-052/044		ROH60		ROHD60		ROHL-060/030		ROHL-060/044	
Depth	mm		60		60		47		55		60		60	
Height of fins	mm		282		410		-		-		282		410	
Exponent	n		1,30		1,24		1,27		1,26		1,31		1,24	
Basic price		€	426,73		485,95		264,25		390,28		485,95		490,50	
Price/metre		€	78,98		95,68		153,37		288,52		94,14		94,14	
Length mm		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	
		Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	
500		442	466,22	464	533,79	333	340,94	535	534,54	485	533,02	503	537,57	
600		530	474,12	556	543,36	399	356,27	641	563,39	581	542,43	603	546,98	
700		619	482,02	649	552,93	466	371,61	748	592,24	678	551,85	704	556,40	
800		707	489,91	742	562,49	532	386,95	855	621,10	775	561,26	804	565,81	
900		796	497,81	834	572,06	599	402,28	962	649,95	872	570,68	905	575,23	
1000		884	505,71	927	581,63	665	417,62	1069	678,80	969	580,09	1005	584,64	
1100		972	513,61	1020	591,20	732	432,96	1176	707,65	1066	589,50	1106	594,05	
1200		1061	521,51	1112	600,77	798	448,29	1283	736,50	1163	598,92	1206	603,47	
1300		1149	529,40	1205	610,33	865	463,63	1390	765,36	1260	608,33	1307	612,88	
1400		1238	537,30	1298	619,90	931	478,97	1497	794,21	1357	617,75	1407	622,30	
1500		1326	545,20	1391	629,47	998	494,31	1604	823,06	1454	627,16	1508	631,71	
1600		1414	553,10	1483	639,04	1064	509,64	1710	851,91	1550	636,57	1608	641,12	
1700		1503	561,00	1576	648,61	1131	524,98	1817	880,76	1647	645,99	1709	650,54	
1800		1591	568,89	1669	658,17	1197	540,32	1924	909,62	1744	655,40	1809	659,95	
1900		1680	576,79	1761	667,74	1264	555,65	2031	938,47	1841	664,82	1910	669,37	
2000		1768	584,69	1854	677,31	1330	570,99	2138	967,32	1938	674,23	2010	678,78	
2100		1856	592,59	1947	686,88	1397	586,33	2245	996,17	2035	683,64	2111	688,19	
2200		1945	600,49	2039	696,45	1463	601,66	2352	1.025,02	2132	693,06	2211	697,61	
2300		2033	608,38	2132	706,01	1530	617,00	2459	1.053,88	2229	702,47	2312	707,02	
2400		2122	616,28	2225	715,58	1596	632,34	2566	1.082,73	2326	711,89	2412	716,44	
2500		2210	624,18	2318	725,15	1663	647,68	2673	1.111,58	2423	721,30	2513	725,85	
2600		2298	632,08	2410	734,72	1729	663,01	2779	1.140,43	2519	730,71	2613	735,26	
2700		2387	639,98	2503	744,29	1796	678,35	2886	1.169,28	2616	740,13	2714	744,68	
2800		2475	647,87	2596	753,85	1862	693,69	2993	1.198,14	2713	749,54	2814	754,09	
2900		2564	655,77	2688	763,42	1929	709,02	3100	1.226,99	2810	758,96	2915	763,51	
3000		2652	663,67	2781	772,99	1995	724,36	3207	1.255,84	2907	768,37	3015	772,92	

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

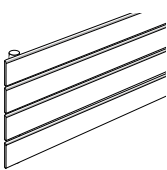
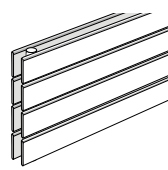
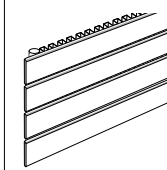
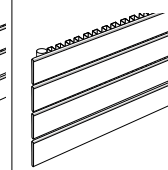
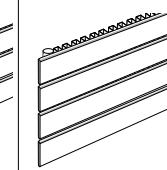
Height		mm		592		666									
															
Model		ROHL-060/060		ROH67		ROHD67		ROHL-067/030		ROHL-067/044		ROHL-067/060			
Depth	mm	60		47		55		60		60		60			
Height of fins	mm	550		-		-		282		410		550			
Exponent	n	1,25		1,27		1,26		1,32		1,24		1,25			
Basic price	€	536,06		264,25		394,85		505,69		510,25		555,81			
Price/metre	€	110,84		173,12		317,39		94,14		94,14		110,84			
Length mm		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price		
		Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€		
500	530	591,48	372	350,81	592	553,55	529	552,76	541	557,32	568	611,23			
600	636	602,56	446	368,12	710	585,28	634	562,17	649	566,73	682	622,31			
700	742	613,65	521	385,43	828	617,02	740	571,59	757	576,15	795	633,40			
800	848	624,73	595	402,75	946	648,76	846	581,00	865	585,56	909	644,48			
900	954	635,82	670	420,06	1065	680,50	951	590,42	973	594,98	1022	655,57			
1000	1060	646,90	744	437,37	1183	712,24	1057	599,83	1081	604,39	1136	666,65			
1100	1166	657,98	818	454,68	1301	743,98	1163	609,24	1189	613,80	1250	677,73			
1200	1272	669,07	893	471,99	1420	775,72	1268	618,66	1297	623,22	1363	688,82			
1300	1378	680,15	967	489,31	1538	807,46	1374	628,07	1405	632,63	1477	699,90			
1400	1484	691,24	1042	506,62	1656	839,20	1480	637,49	1513	642,05	1590	710,99			
1500	1590	702,32	1116	523,93	1775	870,94	1586	646,90	1622	651,46	1704	722,07			
1600	1696	713,40	1190	541,24	1893	902,67	1691	656,31	1730	660,87	1818	733,15			
1700	1802	724,49	1265	558,55	2011	934,41	1797	665,73	1838	670,29	1931	744,24			
1800	1908	735,57	1339	575,87	2129	966,15	1903	675,14	1946	679,70	2045	755,32			
1900	2014	746,66	1414	593,18	2248	997,89	2008	684,56	2054	689,12	2158	766,41			
2000	2120	757,74	1488	610,49	2366	1.029,63	2114	693,97	2162	698,53	2272	777,49			
2100	2226	768,82	1562	627,80	2484	1.061,37	2220	703,38	2270	707,94	2386	788,57			
2200	2332	779,91	1637	645,11	2603	1.093,11	2325	712,80	2378	717,36	2499	799,66			
2300	2438	790,99	1711	662,43	2721	1.124,85	2431	722,21	2486	726,77	2613	810,74			
2400	2544	802,08	1786	679,74	2839	1.156,59	2537	731,63	2594	736,19	2726	821,83			
2500	2650	813,16	1860	697,05	2958	1.188,33	2643	741,04	2703	745,60	2840	832,91			
2600	2756	824,24	1934	714,36	3076	1.220,06	2748	750,45	2811	755,01	2954	843,99			
2700	2862	835,33	2009	731,67	3194	1.251,80	2854	759,87	2919	764,43	3067	855,08			
2800	2968	846,41	2083	748,99	3312	1.283,54	2960	769,28	3027	773,84	3181	866,16			
2900	3074	857,50	2158	766,30	3431	1.315,28	3065	778,70	3135	783,26	3294	877,25			
3000	3180	868,58	2232	783,61	3549	1.347,02	3171	788,11	3243	792,67	3408	888,33			

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

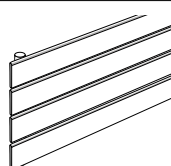
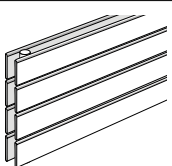
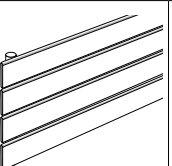
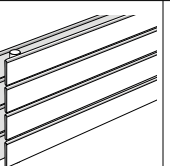
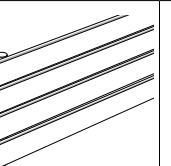
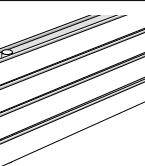
Height	mm	740											
													
Model		ROH74	ROHD74	ROHL-074/030	ROHL-074/044	ROHL-074/060							
Depth	mm	47	55	60	60	60							
Height of fins	mm	-	-	282	410	550							
Exponent	n	1,27	1,26	1,33	1,25	1,25							
Basic price	€	265,75	396,37	522,41	526,98	557,34							
Price/metre	€	195,89	356,88	92,63	92,63	107,81							
Length mm	Φ_s		Φ_s		Φ_s		Φ_s		Φ_s		Φ_s		
	Watt	Price €	Watt	Price €	Watt	Price €	Watt	Price €	Watt	Price €	Watt	Price €	
500	412	363,70	648	574,81	574	568,73	578	573,30	605	611,25			
600	494	383,28	777	610,50	688	577,99	693	582,56	726	622,03			
700	576	402,87	907	646,19	803	587,25	809	591,82	847	632,81			
800	658	422,46	1036	681,87	918	596,51	924	601,08	968	643,59			
900	741	442,05	1166	717,56	1032	605,78	1040	610,35	1089	654,37			
1000	823	461,64	1295	753,25	1147	615,04	1155	619,61	1210	665,15			
1100	905	481,23	1425	788,94	1262	624,30	1271	628,87	1331	675,93			
1200	988	500,82	1554	824,63	1376	633,57	1386	638,14	1452	686,71			
1300	1070	520,41	1684	860,31	1491	642,83	1502	647,40	1573	697,49			
1400	1152	540,00	1813	896,00	1606	652,09	1617	656,66	1694	708,27			
1500	1235	559,59	1943	931,69	1721	661,36	1733	665,93	1815	719,06			
1600	1317	579,17	2072	967,38	1835	670,62	1848	675,19	1936	729,84			
1700	1399	598,76	2202	1.003,07	1950	679,88	1964	684,45	2057	740,62			
1800	1481	618,35	2331	1.038,75	2065	689,14	2079	693,71	2178	751,40			
1900	1564	637,94	2461	1.074,44	2179	698,41	2195	702,98	2299	762,18			
2000	1646	657,53	2590	1.110,13	2294	707,67	2310	712,24	2420	772,96			
2100	1728	677,12	2720	1.145,82	2409	716,93	2426	721,50	2541	783,74			
2200	1811	696,71	2849	1.181,51	2523	726,20	2541	730,77	2662	794,52			
2300	1893	716,30	2979	1.217,19	2638	735,46	2657	740,03	2783	805,30			
2400	1975	735,89	3108	1.252,88	2753	744,72	2772	749,29	2904	816,08			
2500	2058	755,48	3238	1.288,57	2868	753,99	2888	758,56	3025	826,87			
2600	2140	775,06	3367	1.324,26	2982	763,25	3003	767,82	3146	837,65			
2700	2222	794,65	3497	1.359,95	3097	772,51	3119	777,08	3267	848,43			
2800	2304	814,24	3626	1.395,63	3212	781,77	3234	786,34	3388	859,21			
2900	2387	833,83	3756	1.431,32	3326	791,04	3350	795,61	3509	869,99			
3000	2469	853,42	3885	1.467,01	3441	800,30	3465	804,87	3630	880,77			

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

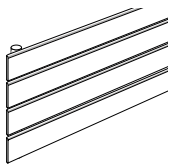
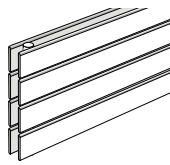
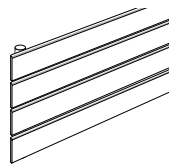
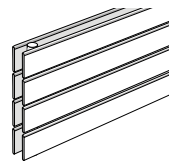
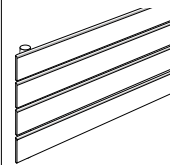
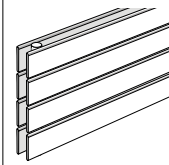
Height		mm		814				888				962			
															
Model		ROH81		ROHD81		ROH89		ROHD89		ROH96		ROHD96			
Depth	mm	47		55		47		55		47		55			
Height of fins	mm	-		-		-		-		-		-			
Exponent	n	1,27		1,26		1,27		1,26		1,27		1,26			
Basic price	€	267,29		397,87		268,81		397,87		270,31		399,40			
Price/metre	€	217,14		394,85		238,42		434,34		259,69		473,78			
Length		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price		
mm		Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€		
500		451	375,86	704	595,30	490	388,02	759	615,04	529	400,16	813	636,29		
600		541	397,57	844	634,78	588	411,86	910	658,47	634	426,12	976	683,67		
700		631	419,29	985	674,27	686	435,70	1062	701,91	740	452,09	1138	731,05		
800		721	441,00	1126	713,75	784	459,55	1214	745,34	846	478,06	1301	778,42		
900		811	462,72	1266	753,24	882	483,39	1365	788,78	951	504,03	1463	825,80		
1000		901	484,43	1407	792,72	980	507,23	1517	832,21	1057	530,00	1626	873,18		
1100		991	506,14	1548	832,21	1078	531,07	1669	875,64	1163	555,97	1789	920,56		
1200		1081	527,86	1688	871,69	1176	554,91	1820	919,08	1268	581,94	1951	967,94		
1300		1171	549,57	1829	911,18	1274	578,76	1972	962,51	1374	607,91	2114	1.015,31		
1400		1261	571,29	1970	950,66	1372	602,60	2124	1.005,95	1480	633,88	2276	1.062,69		
1500		1352	593,00	2111	990,15	1470	626,44	2276	1.049,38	1586	659,85	2439	1.110,07		
1600		1442	614,71	2251	1.029,63	1568	650,28	2427	1.092,81	1691	685,81	2602	1.157,45		
1700		1532	636,43	2392	1.069,12	1666	674,12	2579	1.136,25	1797	711,78	2764	1.204,83		
1800		1622	658,14	2533	1.108,60	1764	697,97	2731	1.179,68	1903	737,75	2927	1.252,20		
1900		1712	679,86	2673	1.148,09	1862	721,81	2882	1.223,12	2008	763,72	3089	1.299,58		
2000		1802	701,57	2814	1.187,57	1960	745,65	3034	1.266,55	2114	789,69	3252	1.346,96		
2100		1892	723,28	2955	1.227,06	2058	769,49	3186	1.309,98	2220	815,66	3415	1.394,34		
2200		1982	745,00	3095	1.266,54	2156	793,33	3337	1.353,42	2325	841,63	3577	1.441,72		
2300		2072	766,71	3236	1.306,03	2254	817,18	3489	1.396,85	2431	867,60	3740	1.489,09		
2400		2162	788,43	3377	1.345,51	2352	841,02	3641	1.440,29	2537	893,57	3902	1.536,47		
2500		2253	810,14	3518	1.385,00	2450	864,86	3793	1.483,72	2643	919,54	4065	1.583,85		
2600		2343	831,85	3658	1.424,48	2548	888,70	3944	1.527,15	2748	945,50	4228	1.631,23		
2700		2433	853,57	3799	1.463,97	2646	912,54	4096	1.570,59	2854	971,47	4390	1.678,61		
2800		2523	875,28	3940	1.503,45	2744	936,39	4248	1.614,02	2960	997,44	4553	1.725,98		
2900		2613	897,00	4080	1.542,94	2842	960,23	4399	1.657,46	3065	1.023,41	4715	1.773,36		
3000		2703	918,71	4221	1.582,42	2940	984,07	4551	1.700,89	3171	1.049,38	4878	1.820,74		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

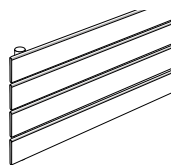
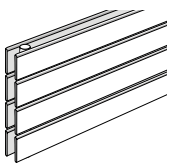
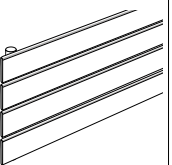
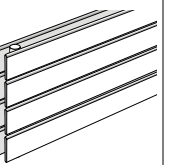
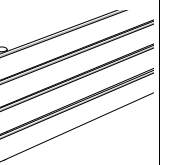
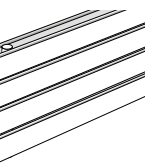
Height		mm	1036				1110				1184			
														
Model			ROH104		ROHD104		ROH111		ROHD111		ROH118		ROHD118	
Depth			mm	47	55		47		55		47		55	
Height of fins			mm	-	-		-		-		-		-	
Exponent			n	1,27	1,26		1,27		1,26		1,27		1,26	
Basic price			€	274,85	411,53		279,42		425,23		283,96		437,38	
Price/metre			€	277,90	504,16		296,13		536,06		314,34		567,96	
Length mm			Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price
			Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€
500			568	413,80	867	663,61	606	427,49	921	693,26	645	441,13	975	721,36
600			681	441,59	1040	714,03	727	457,10	1105	746,87	774	472,56	1169	778,16
700			795	469,38	1214	764,44	848	486,71	1289	800,47	903	504,00	1364	834,95
800			908	497,17	1387	814,86	970	516,32	1474	854,08	1032	535,43	1559	891,75
900			1022	524,96	1561	865,27	1091	545,94	1658	907,68	1161	566,87	1754	948,54
1000			1135	552,75	1734	915,69	1212	575,55	1842	961,29	1290	598,30	1949	1.005,34
1100			1249	580,54	1907	966,11	1333	605,16	2026	1.014,90	1419	629,73	2144	1.062,14
1200			1362	608,33	2081	1.016,52	1454	634,78	2210	1.068,50	1548	661,17	2339	1.118,93
1300			1476	636,12	2254	1.066,94	1576	664,39	2395	1.122,11	1677	692,60	2534	1.175,73
1400			1589	663,91	2428	1.117,35	1697	694,00	2579	1.175,71	1806	724,04	2729	1.232,52
1500			1703	691,70	2601	1.167,77	1818	723,62	2763	1.229,32	1935	755,47	2924	1.289,32
1600			1816	719,49	2774	1.218,19	1939	753,23	2947	1.282,93	2064	786,90	3118	1.346,12
1700			1930	747,28	2948	1.268,60	2060	782,84	3131	1.336,53	2193	818,34	3313	1.402,91
1800			2043	775,07	3121	1.319,02	2182	812,45	3316	1.390,14	2322	849,77	3508	1.459,71
1900			2157	802,86	3295	1.369,43	2303	842,07	3500	1.443,74	2451	881,21	3703	1.516,50
2000			2270	830,65	3468	1.419,85	2424	871,68	3684	1.497,35	2580	912,64	3898	1.573,30
2100			2384	858,44	3641	1.470,27	2545	901,29	3868	1.550,96	2709	944,07	4093	1.630,10
2200			2497	886,23	3815	1.520,68	2666	930,91	4052	1.604,56	2838	975,51	4288	1.686,89
2300			2611	914,02	3988	1.571,10	2788	960,52	4237	1.658,17	2967	1.006,94	4483	1.743,69
2400			2724	941,81	4162	1.621,51	2909	990,13	4421	1.711,77	3096	1.038,38	4678	1.800,48
2500			2838	969,60	4335	1.671,93	3030	1.019,75	4605	1.765,38	3225	1.069,81	4873	1.857,28
2600			2951	997,39	4508	1.722,35	3151	1.049,36	4789	1.818,99	3354	1.101,24	5067	1.914,08
2700			3065	1.025,18	4682	1.772,76	3272	1.078,97	4973	1.872,59	3483	1.132,68	5262	1.970,87
2800			3178	1.052,97	4855	1.823,18	3394	1.108,58	5158	1.926,20	3612	1.164,11	5457	2.027,67
2900			3292	1.080,76	5029	1.873,59	3515	1.138,20	5342	1.979,80	3741	1.195,55	5652	2.084,46
3000			3405	1.108,55	5202	1.924,01	3636	1.167,81	5526	2.033,41	3870	1.226,98	5847	2.141,26

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

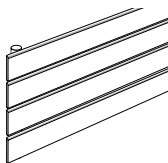
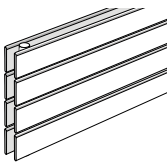
Height		mm	1258				1332				1406				
															
Model			ROH126		ROHD126		ROH133		ROHD133		ROH140		ROHD140		
Depth			mm	47	55		47		55		47		55		
Height of fins			mm	-	-		-		-		-		-		
Exponent			n	1,27	1,26		1,27		1,26		1,27		1,26		
Basic price			€	290,06		449,52		294,62		463,19		299,17		475,33	
Price/metre			€	332,58		598,32		350,80		630,23		364,48		663,66	
Length mm			Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	
			Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	
500			684	456,35	1028	748,68	722	470,02	1081	778,31	761	481,41	1133	807,16	
600			820	489,61	1233	808,51	866	505,10	1297	841,33	913	517,86	1360	873,53	
700			957	522,87	1439	868,34	1011	540,18	1513	904,35	1065	554,31	1586	939,89	
800			1094	556,12	1644	928,18	1155	575,26	1729	967,37	1217	590,75	1813	1.006,26	
900			1230	589,38	1850	988,01	1300	610,34	1945	1.030,40	1369	627,20	2039	1.072,62	
1000			1367	622,64	2055	1.047,84	1444	645,42	2161	1.093,42	1521	663,65	2266	1.138,99	
1100			1504	655,90	2261	1.107,67	1588	680,50	2377	1.156,44	1673	700,10	2493	1.205,36	
1200			1640	689,16	2466	1.167,50	1733	715,58	2593	1.219,47	1825	736,55	2719	1.271,72	
1300			1777	722,41	2672	1.227,34	1877	750,66	2809	1.282,49	1977	772,99	2946	1.338,09	
1400			1914	755,67	2877	1.287,17	2022	785,74	3025	1.345,51	2129	809,44	3172	1.404,45	
1500			2051	788,93	3083	1.347,00	2166	820,82	3242	1.408,54	2282	845,89	3399	1.470,82	
1600			2187	822,19	3288	1.406,83	2310	855,90	3458	1.471,56	2434	882,34	3626	1.537,19	
1700			2324	855,45	3494	1.466,66	2455	890,98	3674	1.534,58	2586	918,79	3852	1.603,55	
1800			2461	888,70	3699	1.526,50	2599	926,06	3890	1.597,60	2738	955,23	4079	1.669,92	
1900			2597	921,96	3905	1.586,33	2744	961,14	4106	1.660,63	2890	991,68	4305	1.736,28	
2000			2734	955,22	4110	1.646,16	2888	996,22	4322	1.723,65	3042	1.028,13	4532	1.802,65	
2100			2871	988,48	4316	1.705,99	3032	1.031,30	4538	1.786,67	3194	1.064,58	4759	1.869,02	
2200			3007	1.021,74	4521	1.765,82	3177	1.066,38	4754	1.849,70	3346	1.101,03	4985	1.935,38	
2300			3144	1.054,99	4727	1.825,66	3321	1.101,46	4970	1.912,72	3498	1.137,47	5212	2.001,75	
2400			3281	1.088,25	4932	1.885,49	3466	1.136,54	5186	1.975,74	3650	1.173,92	5438	2.068,11	
2500			3418	1.121,51	5138	1.945,32	3610	1.171,62	5403	2.038,77	3803	1.210,37	5665	2.134,48	
2600			3554	1.154,77	5343	2.005,15	3754	1.206,70	5619	2.101,79	3955	1.246,82	5892	2.200,85	
2700			3691	1.188,03	5549	2.064,98	3899	1.241,78	5835	2.164,81	4107	1.283,27	6118	2.267,21	
2800			3828	1.221,28	5754	2.124,82	4043	1.276,86	6051	2.227,83	4259	1.319,71	6345	2.333,58	
2900			3964	1.254,54	5960	2.184,65	4188	1.311,94	6267	2.290,86	4411	1.356,16	6571	2.399,94	
3000			4101	1.287,80	6165	2.244,48	4332	1.347,02	6483	2.353,88	4563	1.392,61	6798	2.466,31	

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

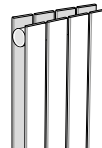
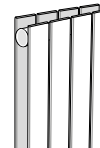
Height		mm	1480									
												
Model			ROH148		ROHD148							
Depth	mm		47		55							
Height of fins	mm		-		-							
Exponent	n		1,27		1,30							
Basic price	€		303,72		487,48							
Price/metre	€		382,69		695,53							
Length mm		Φ _s	Price	Φ _s	Price							
		Watt	€	Watt	€							
500		799	495,07	1186	835,25							
600		958	533,33	1423	904,80							
700		1118	571,60	1660	974,35							
800		1278	609,87	1897	1.043,90							
900		1437	648,14	2134	1.113,46							
1000		1597	686,41	2371	1.183,01							
1100		1757	724,68	2608	1.252,56							
1200		1916	762,95	2845	1.322,12							
1300		2076	801,22	3082	1.391,67							
1400		2236	839,49	3319	1.461,22							
1500		2396	877,76	3557	1.530,78							
1600		2555	916,02	3794	1.600,33							
1700		2715	954,29	4031	1.669,88							
1800		2875	992,56	4268	1.739,43							
1900		3034	1.030,83	4505	1.808,99							
2000		3194	1.069,10	4742	1.878,54							
2100		3354	1.107,37	4979	1.948,09							
2200		3513	1.145,64	5216	2.017,65							
2300		3673	1.183,91	5453	2.087,20							
2400		3833	1.222,18	5690	2.156,75							
2500		3993	1.260,45	5928	2.226,31							
2600		4152	1.298,71	6165	2.295,86							
2700		4312	1.336,98	6402	2.365,41							
2800		4472	1.375,25	6639	2.434,96							
2900		4631	1.413,52	6876	2.504,52							
3000		4791	1.451,79	7113	2.574,07							

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

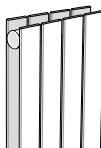
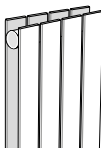
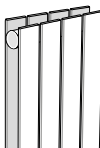
Height mm		500				600				700			
													
Model		ROV50		ROVD50		ROV60		ROVD60		ROV70		ROVD70	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,32		1,29		1,32		1,29		1,32		1,33	
Basic price	€	177,69		303,72		180,71		308,27		183,75		311,32	
Price/metre	€	233,86		460,12		259,69		511,77		283,96		564,91	
Length		Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€
2	148	86	212,30	130	371,82	104	219,14	154	384,01	120	225,78	178	394,93
3	222	129	229,61	195	405,87	156	238,36	231	421,88	180	246,79	267	436,73
4	296	172	246,91	260	439,92	208	257,58	308	459,75	240	267,80	356	478,53
5	370	215	264,22	325	473,96	260	276,80	385	497,62	300	288,82	445	520,34
6	444	258	281,52	390	508,01	312	296,01	462	535,50	360	309,83	534	562,14
7	518	301	298,83	455	542,06	364	315,23	539	573,37	420	330,84	623	603,94
8	592	344	316,14	520	576,11	416	334,45	616	611,24	480	351,85	712	645,75
9	666	387	333,44	585	610,16	468	353,66	693	649,11	540	372,87	801	687,55
10	740	430	350,75	650	644,21	520	372,88	770	686,98	600	393,88	890	729,35
11	814	473	368,05	715	678,26	572	392,10	847	724,85	660	414,89	979	771,16
12	888	516	385,36	780	712,31	624	411,31	924	762,72	720	435,91	1068	812,96
13	962	559	402,66	845	746,36	676	430,53	1001	800,59	780	456,92	1157	854,76
14	1036	602	419,97	910	780,40	728	449,75	1078	838,46	840	477,93	1246	896,57
15	1110	645	437,27	975	814,45	780	468,97	1155	876,33	900	498,95	1335	938,37
16	1184	688	454,58	1040	848,50	832	488,18	1232	914,21	960	519,96	1424	980,17
17	1258	731	471,89	1105	882,55	884	507,40	1309	952,08	1020	540,97	1513	1.021,98
18	1332	774	489,19	1170	916,60	936	526,62	1386	989,95	1080	561,98	1602	1.063,78
19	1406	817	506,50	1235	950,65	988	545,83	1463	1.027,82	1140	583,00	1691	1.105,58
20	1480	860	523,80	1300	984,70	1040	565,05	1540	1.065,69	1200	604,01	1780	1.147,39

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

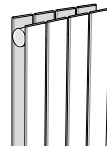
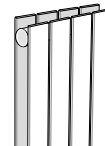
Height		mm		800				900				1000			
															
Model		ROV80		ROVD80		ROV90		ROVD90		ROV100		ROVD100			
Depth	mm	47		55		47		55		47		55			
Exponent	n	1,32		1,33		1,31		1,33		1,31		1,33			
Basic price	€	188,31		315,87		191,34		320,42		194,38		323,46			
Price/metre	€	309,79		616,56		334,10		669,71		358,41		721,36			
Length		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price		
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€		
2	148	136	234,16	200	407,12	150	240,79	222	419,54	166	247,42	244	430,22		
3	222	204	257,08	300	452,75	225	265,51	333	469,10	249	273,95	366	483,60		
4	296	272	280,01	400	498,37	300	290,23	444	518,65	332	300,47	488	536,98		
5	370	340	302,93	500	544,00	375	314,96	555	568,21	415	326,99	610	590,36		
6	444	408	325,86	600	589,62	450	339,68	666	617,77	498	353,51	732	643,74		
7	518	476	348,78	700	635,25	525	364,40	777	667,33	581	380,04	854	697,12		
8	592	544	371,71	800	680,87	600	389,13	888	716,89	664	406,56	976	750,51		
9	666	612	394,63	900	726,50	675	413,85	999	766,45	747	433,08	1098	803,89		
10	740	680	417,55	1000	772,12	750	438,57	1110	816,01	830	459,60	1220	857,27		
11	814	748	440,48	1100	817,75	825	463,30	1221	865,56	913	486,13	1342	910,65		
12	888	816	463,40	1200	863,38	900	488,02	1332	915,12	996	512,65	1464	964,03		
13	962	884	486,33	1300	909,00	975	512,74	1443	964,68	1079	539,17	1586	1.017,41		
14	1036	952	509,25	1400	954,63	1050	537,47	1554	1.014,24	1162	565,69	1708	1.070,79		
15	1110	1020	532,18	1500	1.000,25	1125	562,19	1665	1.063,80	1245	592,22	1830	1.124,17		
16	1184	1088	555,10	1600	1.045,88	1200	586,91	1776	1.113,36	1328	618,74	1952	1.177,55		
17	1258	1156	578,03	1700	1.091,50	1275	611,64	1887	1.162,92	1411	645,26	2074	1.230,93		
18	1332	1224	600,95	1800	1.137,13	1350	636,36	1998	1.212,47	1494	671,78	2196	1.284,31		
19	1406	1292	623,87	1900	1.182,75	1425	661,08	2109	1.262,03	1577	698,30	2318	1.337,69		
20	1480	1360	646,80	2000	1.228,38	1500	685,81	2220	1.311,59	1660	724,83	2440	1.391,07		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

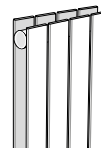
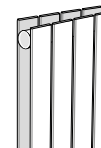
Height mm		1100				1200				1300			
													
Model		ROV110		ROVD110		ROV120		ROVD120		ROV130		ROVD130	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,31		1,32		1,31		1,32		1,31		1,32	
Basic price	€	197,43		328,03		201,96		331,07		205,04		335,62	
Price/metre	€	384,20		774,49		408,51		826,11		434,34		877,75	
Length		Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€
2	148	180	254,29	266	442,65	196	262,42	288	453,33	212	269,32	310	465,53
3	222	270	282,72	399	499,97	294	292,65	432	514,47	318	301,46	465	530,48
4	296	360	311,15	532	557,28	392	322,88	576	575,60	424	333,60	620	595,43
5	370	450	339,58	665	614,59	490	353,11	720	636,73	530	365,75	775	660,39
6	444	540	368,01	798	671,90	588	383,34	864	697,86	636	397,89	930	725,34
7	518	630	396,45	931	729,22	686	413,57	1008	758,99	742	430,03	1085	790,29
8	592	720	424,88	1064	786,53	784	443,80	1152	820,13	848	462,17	1240	855,25
9	666	810	453,31	1197	843,84	882	474,03	1296	881,26	954	494,31	1395	920,20
10	740	900	481,74	1330	901,15	980	504,26	1440	942,39	1060	526,45	1550	985,16
11	814	990	510,17	1463	958,46	1078	534,49	1584	1.003,52	1166	558,59	1705	1.050,11
12	888	1080	538,60	1596	1.015,78	1176	564,72	1728	1.064,66	1272	590,73	1860	1.115,06
13	962	1170	567,03	1729	1.073,09	1274	594,95	1872	1.125,79	1378	622,88	2015	1.180,02
14	1036	1260	595,46	1862	1.130,40	1372	625,18	2016	1.186,92	1484	655,02	2170	1.244,97
15	1110	1350	623,89	1995	1.187,71	1470	655,41	2160	1.248,05	1590	687,16	2325	1.309,92
16	1184	1440	652,32	2128	1.245,03	1568	685,64	2304	1.309,18	1696	719,30	2480	1.374,88
17	1258	1530	680,75	2261	1.302,34	1666	715,87	2448	1.370,32	1802	751,44	2635	1.439,83
18	1332	1620	709,18	2394	1.359,65	1764	746,10	2592	1.431,45	1908	783,58	2790	1.504,78
19	1406	1710	737,62	2527	1.416,96	1862	776,33	2736	1.492,58	2014	815,72	2945	1.569,74
20	1480	1800	766,05	2660	1.474,28	1960	806,55	2880	1.553,71	2120	847,86	3100	1.634,69

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

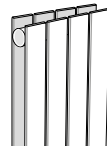
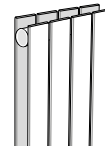
Height		mm		1400				1500				1600			
															
Model		ROV140		ROVD140		ROV150		ROVD150		ROV160		ROVD160			
Depth mm		47		55		47		55		47		55			
Exponent n		1,31		1,32		1,31		1,32		1,31		1,32			
Basic price €		208,04		340,16		211,08		343,20		215,64		347,75			
Price/metre €		458,63		930,90		484,43		982,54		508,74		1.035,69			
Length		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price		
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€		
2	148	226	275,92	330	477,93	240	282,78	352	488,62	254	290,93	372	501,03		
3	222	339	309,86	495	546,82	360	318,62	528	561,32	381	328,58	558	577,67		
4	296	452	343,79	660	615,71	480	354,47	704	634,03	508	366,23	744	654,31		
5	370	565	377,73	825	684,59	600	390,32	880	706,74	635	403,87	930	730,96		
6	444	678	411,67	990	753,48	720	426,17	1056	779,45	762	441,52	1116	807,60		
7	518	791	445,61	1155	822,37	840	462,01	1232	852,16	889	479,17	1302	884,24		
8	592	904	479,55	1320	891,25	960	497,86	1408	924,86	1016	516,81	1488	960,88		
9	666	1017	513,49	1485	960,14	1080	533,71	1584	997,57	1143	554,46	1674	1.037,52		
10	740	1130	547,43	1650	1.029,03	1200	569,56	1760	1.070,28	1270	592,11	1860	1.114,16		
11	814	1243	581,36	1815	1.097,91	1320	605,41	1936	1.142,99	1397	629,75	2046	1.190,80		
12	888	1356	615,30	1980	1.166,80	1440	641,25	2112	1.215,70	1524	667,40	2232	1.267,44		
13	962	1469	649,24	2145	1.235,69	1560	677,10	2288	1.288,40	1651	705,05	2418	1.344,08		
14	1036	1582	683,18	2310	1.304,57	1680	712,95	2464	1.361,11	1778	742,69	2604	1.420,72		
15	1110	1695	717,12	2475	1.373,46	1800	748,80	2640	1.433,82	1905	780,34	2790	1.497,37		
16	1184	1808	751,06	2640	1.442,35	1920	784,65	2816	1.506,53	2032	817,99	2976	1.574,01		
17	1258	1921	785,00	2805	1.511,23	2040	820,49	2992	1.579,24	2159	855,63	3162	1.650,65		
18	1332	2034	818,94	2970	1.580,12	2160	856,34	3168	1.651,94	2286	893,28	3348	1.727,29		
19	1406	2147	852,87	3135	1.649,01	2280	892,19	3344	1.724,65	2413	930,93	3534	1.803,93		
20	1480	2260	886,81	3300	1.717,89	2400	928,04	3520	1.797,36	2540	968,58	3720	1.880,57		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

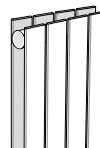
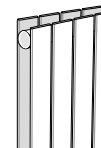
Height mm		1700				1800				1900			
													
Model		ROV170		ROVD170		ROV180		ROVD180		ROV190		ROVD190	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,31		1,32		1,31		1,32		1,30		1,32	
Basic price	€	218,68		350,80		221,72		355,35		226,27		359,91	
Price/metre	€	534,54		1.087,33		558,84		1.138,96		584,69		1.192,09	
Length		Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€
2	148	270	297,79	392	511,72	284	304,43	412	523,92	298	312,80	432	536,34
3	222	405	337,35	588	592,19	426	345,78	618	608,20	447	356,07	648	624,55
4	296	540	376,90	784	672,65	568	387,14	824	692,48	596	399,34	864	712,77
5	370	675	416,46	980	753,11	710	428,49	1030	776,77	745	442,61	1080	800,98
6	444	810	456,02	1176	833,57	852	469,84	1236	861,05	894	485,87	1296	889,20
7	518	945	495,57	1372	914,04	994	511,20	1442	945,33	1043	529,14	1512	977,41
8	592	1080	535,13	1568	994,50	1136	552,55	1648	1.029,61	1192	572,41	1728	1.065,63
9	666	1215	574,68	1764	1.074,96	1278	593,91	1854	1.113,90	1341	615,67	1944	1.153,84
10	740	1350	614,24	1960	1.155,42	1420	635,26	2060	1.198,18	1490	658,94	2160	1.242,06
11	814	1485	653,80	2156	1.235,89	1562	676,62	2266	1.282,46	1639	702,21	2376	1.330,27
12	888	1620	693,35	2352	1.316,35	1704	717,97	2472	1.366,75	1788	745,47	2592	1.418,49
13	962	1755	732,91	2548	1.396,81	1846	759,32	2678	1.451,03	1937	788,74	2808	1.506,70
14	1036	1890	772,46	2744	1.477,27	1988	800,68	2884	1.535,31	2086	832,01	3024	1.594,92
15	1110	2025	812,02	2940	1.557,74	2130	842,03	3090	1.619,60	2235	875,28	3240	1.683,13
16	1184	2160	851,58	3136	1.638,20	2272	883,39	3296	1.703,88	2384	918,54	3456	1.771,34
17	1258	2295	891,13	3332	1.718,66	2414	924,74	3502	1.788,16	2533	961,81	3672	1.859,56
18	1332	2430	930,69	3528	1.799,12	2556	966,09	3708	1.872,44	2682	1.005,08	3888	1.947,77
19	1406	2565	970,24	3724	1.879,59	2698	1.007,45	3914	1.956,73	2831	1.048,34	4104	2.035,99
20	1480	2700	1.009,80	3920	1.960,05	2840	1.048,80	4120	2.041,01	2980	1.091,61	4320	2.124,20

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

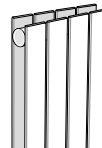
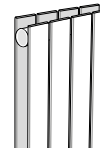
Height		mm		2000				2100				2200			
															
Model		ROV200		ROVD200		ROV210		ROVD210		ROV220		ROVD220			
Depth mm		47		55		47		55		47		55			
Exponent n		1,30		1,32		1,30		1,32		1,30		1,31			
Basic price €		229,29		362,94		232,35		367,50		235,38		372,05			
Price/metre €		608,95		1.243,73		634,77		1.296,89		659,09		1.348,54			
Length		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price		
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€		
2	148	310	319,41	450	547,01	324	326,30	470	559,44	338	332,93	488	571,63		
3	222	465	364,48	675	639,05	486	373,27	705	655,41	507	381,70	732	671,43		
4	296	620	409,54	900	731,08	648	420,24	940	751,38	676	430,47	976	771,22		
5	370	775	454,60	1125	823,12	810	467,21	1175	847,35	845	479,24	1220	871,01		
6	444	930	499,66	1350	915,16	972	514,19	1410	943,32	1014	528,02	1464	970,80		
7	518	1085	544,73	1575	1.007,19	1134	561,16	1645	1.039,29	1183	576,79	1708	1.070,59		
8	592	1240	589,79	1800	1.099,23	1296	608,13	1880	1.135,26	1352	625,56	1952	1.170,39		
9	666	1395	634,85	2025	1.191,26	1458	655,11	2115	1.231,23	1521	674,33	2196	1.270,18		
10	740	1550	679,91	2250	1.283,30	1620	702,08	2350	1.327,20	1690	723,11	2440	1.369,97		
11	814	1705	724,98	2475	1.375,34	1782	749,05	2585	1.423,17	1859	771,88	2684	1.469,76		
12	888	1860	770,04	2700	1.467,37	1944	796,03	2820	1.519,14	2028	820,65	2928	1.569,55		
13	962	2015	815,10	2925	1.559,41	2106	843,00	3055	1.615,11	2197	869,42	3172	1.669,35		
14	1036	2170	860,16	3150	1.651,44	2268	889,97	3290	1.711,08	2366	918,20	3416	1.769,14		
15	1110	2325	905,22	3375	1.743,48	2430	936,94	3525	1.807,05	2535	966,97	3660	1.868,93		
16	1184	2480	950,29	3600	1.835,52	2592	983,92	3760	1.903,02	2704	1.015,74	3904	1.968,72		
17	1258	2635	995,35	3825	1.927,55	2754	1.030,89	3995	1.998,99	2873	1.064,52	4148	2.068,51		
18	1332	2790	1.040,41	4050	2.019,59	2916	1.077,86	4230	2.094,96	3042	1.113,29	4392	2.168,31		
19	1406	2945	1.085,47	4275	2.111,62	3078	1.124,84	4465	2.190,93	3211	1.162,06	4636	2.268,10		
20	1480	3100	1.130,54	4500	2.203,66	3240	1.171,81	4700	2.286,90	3380	1.210,83	4880	2.367,89		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

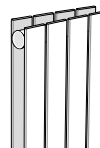
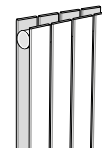
Height mm		2300				2400				2500			
													
Model		ROV230		ROVD230		ROV240		ROVD240		ROV250		ROVD250	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,30		1,31		1,30		1,31		1,30		1,31	
Basic price	€	239,95		375,09		242,97		379,65		246,02		382,69	
Price/metre	€	684,89		1.400,18		709,20		1.453,30		734,99		1.504,94	
Length		Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€
2	148	352	341,31	508	582,32	364	347,93	526	594,74	378	354,80	544	605,42
3	222	528	392,00	762	685,93	546	400,41	789	702,28	567	409,19	816	716,79
4	296	704	442,68	1016	789,54	728	452,89	1052	809,83	756	463,58	1088	828,15
5	370	880	493,36	1270	893,16	910	505,37	1315	917,37	945	517,97	1360	939,52
6	444	1056	544,04	1524	996,77	1092	557,85	1578	1.024,92	1134	572,36	1632	1.050,88
7	518	1232	594,72	1778	1.100,38	1274	610,34	1841	1.132,46	1323	626,74	1904	1.162,25
8	592	1408	645,40	2032	1.204,00	1456	662,82	2104	1.240,00	1512	681,13	2176	1.273,61
9	666	1584	696,09	2286	1.307,61	1638	715,30	2367	1.347,55	1701	735,52	2448	1.384,98
10	740	1760	746,77	2540	1.411,22	1820	767,78	2630	1.455,09	1890	789,91	2720	1.496,35
11	814	1936	797,45	2794	1.514,84	2002	820,26	2893	1.562,64	2079	844,30	2992	1.607,71
12	888	2112	848,13	3048	1.618,45	2184	872,74	3156	1.670,18	2268	898,69	3264	1.719,08
13	962	2288	898,81	3302	1.722,06	2366	925,22	3419	1.777,72	2457	953,08	3536	1.830,44
14	1036	2464	949,50	3556	1.825,68	2548	977,70	3682	1.885,27	2646	1.007,47	3808	1.941,81
15	1110	2640	1.000,18	3810	1.929,29	2730	1.030,18	3945	1.992,81	2835	1.061,86	4080	2.053,17
16	1184	2816	1.050,86	4064	2.032,90	2912	1.082,66	4208	2.100,36	3024	1.116,25	4352	2.164,54
17	1258	2992	1.101,54	4318	2.136,52	3094	1.135,14	4471	2.207,90	3213	1.170,64	4624	2.275,90
18	1332	3168	1.152,22	4572	2.240,13	3276	1.187,62	4734	2.315,45	3402	1.225,03	4896	2.387,27
19	1406	3344	1.202,91	4826	2.343,74	3458	1.240,11	4997	2.422,99	3591	1.279,42	5168	2.498,64
20	1480	3520	1.253,59	5080	2.447,36	3640	1.292,59	5260	2.530,53	3780	1.333,81	5440	2.610,00

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda


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

Height		mm		2600				2700				2800			
															
Model		ROV260		ROVD260		ROV270		ROVD270		ROV280		ROVD280			
Depth mm		47		55		47		55		47		55			
Exponent n		1,30		1,31		1,30		1,31		1,30		1,31			
Basic price €		249,04		387,26		253,61		391,82		256,64		394,85			
Price/metre €		759,29		1.558,08		785,13		1.609,71		809,42		1.661,34			
Length		Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price	Φ _s	Price		
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€	Watt	€		
2	148	388	361,41	562	617,86	402	369,81	580	630,06	416	376,43	600	640,73		
3	222	582	417,60	843	733,15	603	427,91	870	749,18	624	436,33	900	763,67		
4	296	776	473,79	1124	848,45	804	486,01	1160	868,29	832	496,23	1200	886,61		
5	370	970	529,98	1405	963,75	1005	544,11	1450	987,41	1040	556,13	1500	1.009,55		
6	444	1164	586,16	1686	1.079,05	1206	602,21	1740	1.106,53	1248	616,02	1800	1.132,48		
7	518	1358	642,35	1967	1.194,35	1407	660,31	2030	1.225,65	1456	675,92	2100	1.255,42		
8	592	1552	698,54	2248	1.309,64	1608	718,41	2320	1.344,77	1664	735,82	2400	1.378,36		
9	666	1746	754,73	2529	1.424,94	1809	776,51	2610	1.463,89	1872	795,71	2700	1.501,30		
10	740	1940	810,91	2810	1.540,24	2010	834,61	2900	1.583,01	2080	855,61	3000	1.624,24		
11	814	2134	867,10	3091	1.655,54	2211	892,71	3190	1.702,12	2288	915,51	3300	1.747,18		
12	888	2328	923,29	3372	1.770,84	2412	950,81	3480	1.821,24	2496	975,40	3600	1.870,12		
13	962	2522	979,48	3653	1.886,13	2613	1.008,91	3770	1.940,36	2704	1.035,30	3900	1.993,06		
14	1036	2716	1.035,66	3934	2.001,43	2814	1.067,00	4060	2.059,48	2912	1.095,20	4200	2.116,00		
15	1110	2910	1.091,85	4215	2.116,73	3015	1.125,10	4350	2.178,60	3120	1.155,10	4500	2.238,94		
16	1184	3104	1.148,04	4496	2.232,03	3216	1.183,20	4640	2.297,72	3328	1.214,99	4800	2.361,88		
17	1258	3298	1.204,23	4777	2.347,32	3417	1.241,30	4930	2.416,84	3536	1.274,89	5100	2.484,82		
18	1332	3492	1.260,41	5058	2.462,62	3618	1.299,40	5220	2.535,95	3744	1.334,79	5400	2.607,75		
19	1406	3686	1.316,60	5339	2.577,92	3819	1.357,50	5510	2.655,07	3952	1.394,68	5700	2.730,69		
20	1480	3880	1.372,79	5620	2.693,22	4020	1.415,60	5800	2.774,19	4160	1.454,58	6000	2.853,63		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda

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

Height		mm		2900		3000					
											
Model		ROV290		ROVD290		ROV300		ROVD300			
Depth	mm	47		55		47		55			
Exponent	n	1,30		1,31		1,30		1,31			
Basic price	€	259,69		399,40		262,72		403,98			
Price/metre	€	835,23		1.714,51		859,52		1.766,14			
Length		Φ_s	Price	Φ_s	Price	Φ_s	Price	Φ_s	Price		
Elements	mm	Watt	€	Watt	€	Watt	€	Watt	€		
2	148	426	383,30	616	653,15	438	389,93	634	665,37		
3	222	639	445,11	924	780,02	657	453,53	951	796,06		
4	296	852	506,92	1232	906,89	876	517,14	1268	926,76		
5	370	1065	568,73	1540	1.033,77	1095	580,74	1585	1.057,45		
6	444	1278	630,53	1848	1.160,64	1314	644,35	1902	1.188,15		
7	518	1491	692,34	2156	1.287,52	1533	707,95	2219	1.318,84		
8	592	1704	754,15	2464	1.414,39	1752	771,56	2536	1.449,53		
9	666	1917	815,95	2772	1.541,26	1971	835,16	2853	1.580,23		
10	740	2130	877,76	3080	1.668,14	2190	898,76	3170	1.710,92		
11	814	2343	939,57	3388	1.795,01	2409	962,37	3487	1.841,62		
12	888	2556	1.001,37	3696	1.921,88	2628	1.025,97	3804	1.972,31		
13	962	2769	1.063,18	4004	2.048,76	2847	1.089,58	4121	2.103,01		
14	1036	2982	1.124,99	4312	2.175,63	3066	1.153,18	4438	2.233,70		
15	1110	3195	1.186,80	4620	2.302,51	3285	1.216,79	4755	2.364,40		
16	1184	3408	1.248,60	4928	2.429,38	3504	1.280,39	5072	2.495,09		
17	1258	3621	1.310,41	5236	2.556,25	3723	1.344,00	5389	2.625,78		
18	1332	3834	1.372,22	5544	2.683,13	3942	1.407,60	5706	2.756,48		
19	1406	4047	1.434,02	5852	2.810,00	4161	1.471,21	6023	2.887,17		
20	1480	4260	1.495,83	6160	2.936,87	4380	1.534,81	6340	3.017,87		

Surcharge for special colours, category 1 = 20%, category 2 = 30%

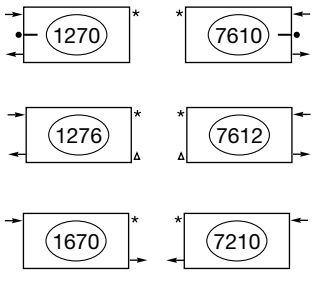
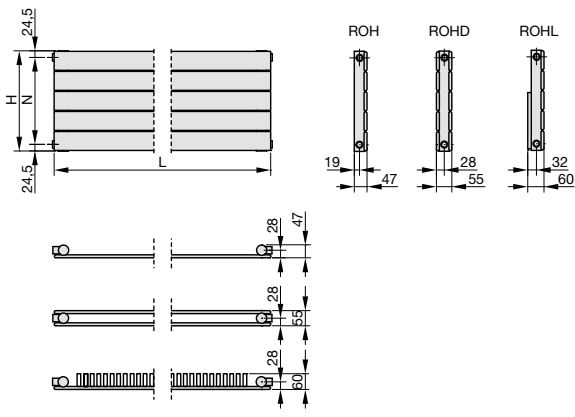
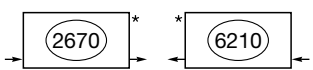
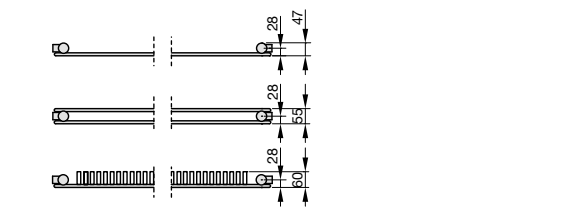
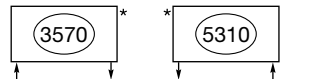
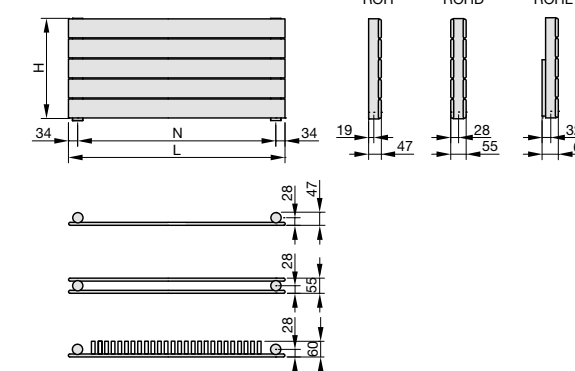
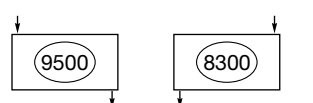
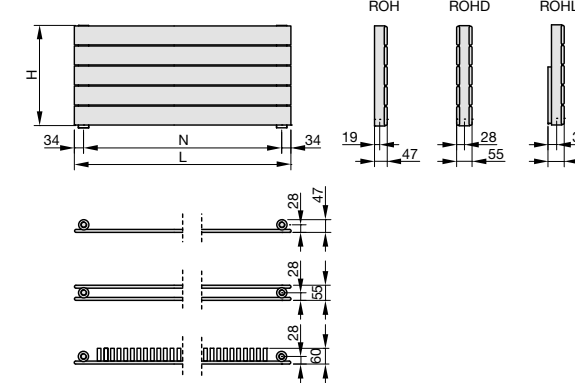
Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

Zehnder Roda



	Price €
Intermediate lengths and smaller lengths for horizontal models, charged for by the next largest catalogue length	+ 10% surcharge
Intermediate heights and smaller heights for vertical models, charged for by the next largest catalogue height	+ 10% surcharge
Galvanised version	On request
Angled, curved	On request
High-pressure version max. 9 bar	+ 12% surcharge
Packaging All the radiators are protected by carton overlaid with heat shrink plastic film	No additional cost
Double cardboard packaging	73,46

Horizontal models

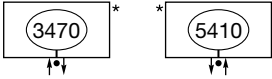
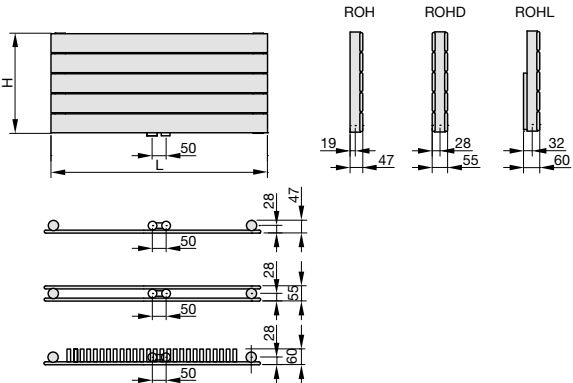
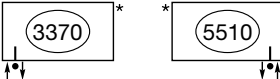
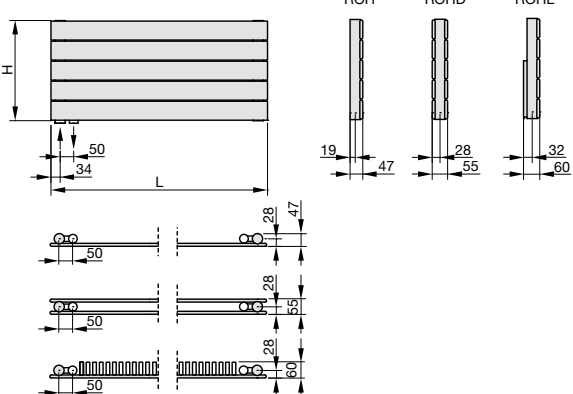
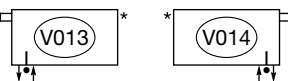
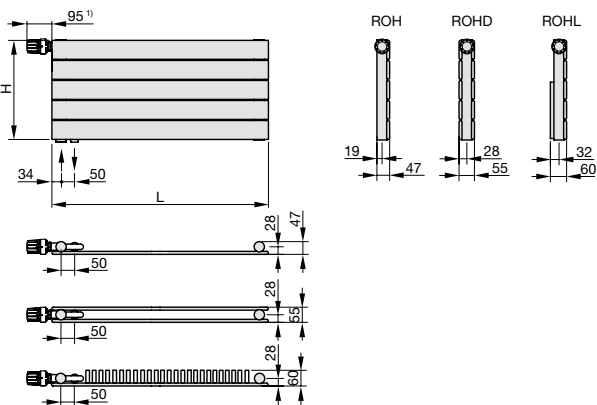
Connection type	Price €	Dimensional drawings: Front view, side view and top view (below)
Standard connection 2-tube with external valve		
same-side or opposite-end 	No additional cost	
	66,06	
from bottom to bottom 	No additional cost	
from top to bottom 	No additional cost	

When orders are placed without indication of the connection type, the standard connection 4 x ½" (7612) is delivered.

- H = Height
 L = Length
 N = Boss spacing
 L₁ = Connection length (side connection)
 * = Venting
 • = Internal installations

Dimensions in mm

Horizontal models

Connection type	Price €	Dimensional drawings: Front view, side view and top view (below)
Standard connection 2-tube with external valve		
from bottom to bottom, central 50 mm 	132,12	
from bottom to bottom, at side 50 mm 	79,27	
Completo connection with integrated valve		
connection on side 50 mm 	154,15	

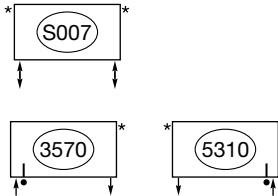
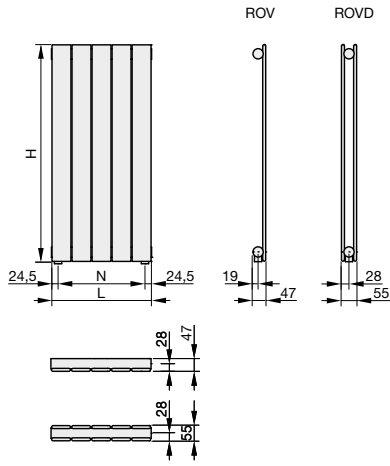
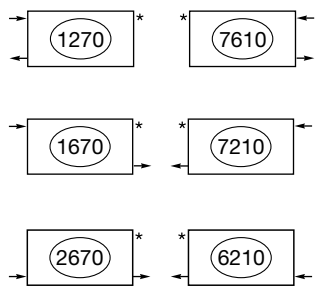
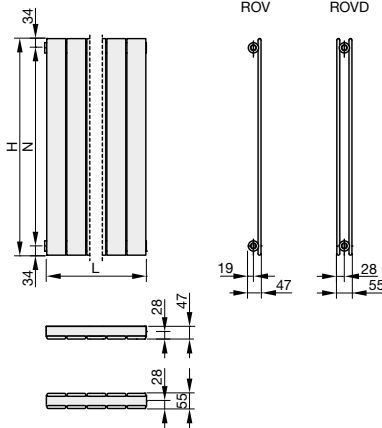
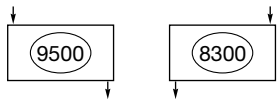
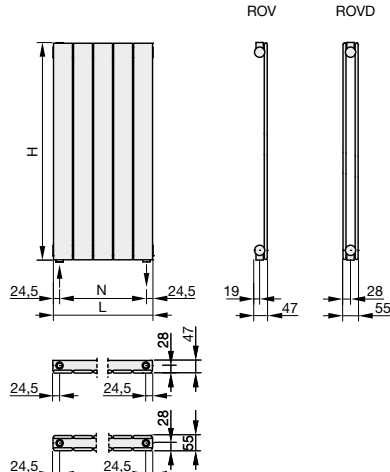
¹⁾ Dimension valid for Zehnder thermostat LH2

When orders are placed without indication of the connection type, the standard connection 4 x 1/2" (7612) is delivered.

- H = Height
 L = Length
 N = Boss spacing
 L₁ = Connection length (side connection)
 * = Venting
 • = Internal installations

Dimensions in mm

Vertical models

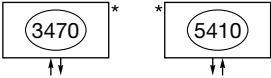
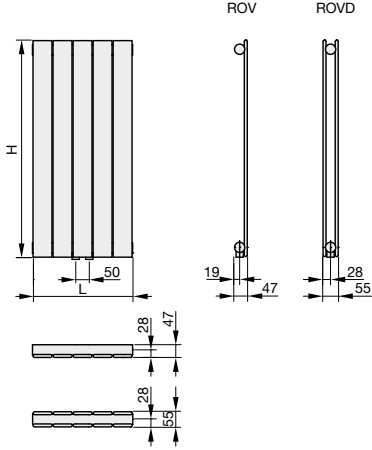
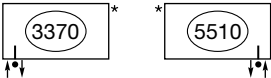
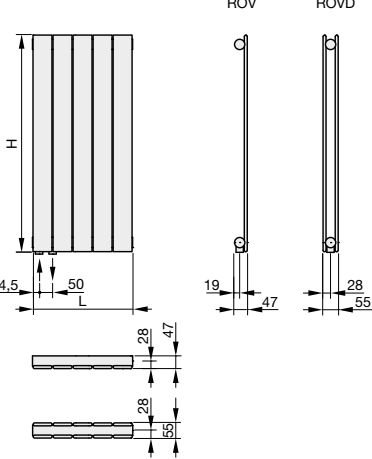
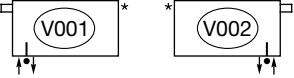
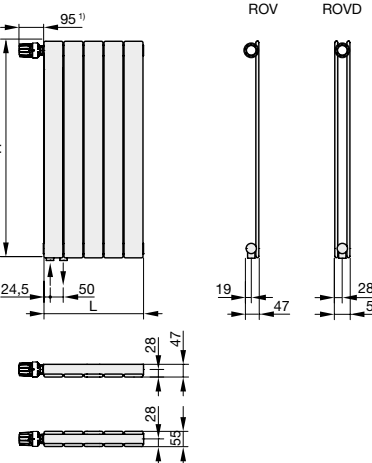
Connection type	Price €	Dimensional drawings: Front view, side view and top view (below)
Standard connection 2-tube with external valve		
from bottom to bottom 	No additional cost	
same-side or opposite-end 	No additional cost	
from top to bottom 	No additional cost	

When orders are placed without indication of the connection type, the standard connection S007 is delivered.

- H = Height
 L = Length
 N = Boss spacing
 L₁ = Connection length (side connection)
 * = Venting
 • = Internal installations

Dimensions in mm

Vertical models

Connection type	Price €	Dimensional drawings: Front view, side view and top view (below)
Standard connection 2-tube with external valve		
from bottom to bottom, central 50 mm 	79,27	
from bottom to bottom, at side 50 mm 	79,27	
Completo connection with integrated valve		
connection on side 50 mm 	154,15	

¹⁾ Dimension valid for Zehnder thermostat LH2

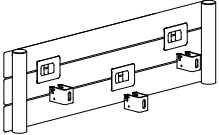
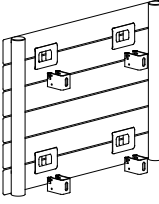
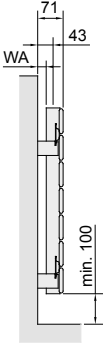
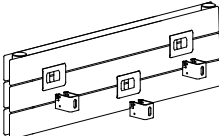
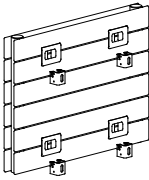
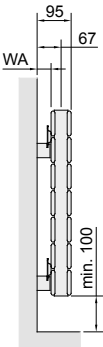
When orders are placed without indication of the connection type, the standard connection S007 is delivered.

- H = Height
- L = Length
- N = Boss spacing
- L₁ = Connection length (side connection)
- * = Venting
- = Internal installations

Dimensions in mm

Zehnder Roda

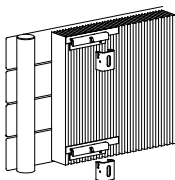
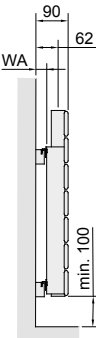
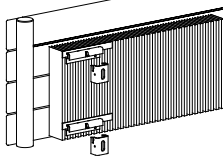
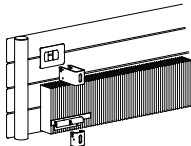
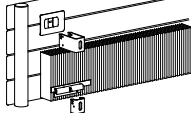
Brackets are included in the scope of delivery, necessary in case of repeat orders.

Illustration	Sketch Side view	Model				
		Application	Wall clearance WA mm	Brackets	Set	€/Set White Colour
  incl. retaining spring		Type ROH				
		Height 148 mm (2 elements)				
		L = 500 - 1900 L = 2000 - 3000	24	2 x C1 3 x C1	1 x 962621 1 x 962559	32,50 - 48,57
		Height 222 mm (3 elements)				
		L = 500 - 3000	24	3 x C1	1 x 962621 1 x 962559	32,50 - 48,57
		Height 296 - 1480 mm (4 - 20 elements)				
		L = 500 - 2400 L = 2500 - 3000	24	4 x C1 6 x C1	1 x 962621 2 x 962559	32,50 - 48,57
  incl. retaining spring		Type ROHD				
		Height 148 mm (2 elements)				
		L = 500 - 1900 L = 2000 - 3000	40	2 x C2 3 x C2	1 x 962631 1 x 962569	32,50 - 48,57
		Height 222 mm (3 elements)				
		L = 500 - 3000	40	3 x C2	1 x 962631 1 x 962569	32,50 - 48,57
		Height 296 - 1480 mm (4 - 20 elements)				
		L = 500 - 2400 L = 2500 - 3000	40	4 x C2 6 x C2	1 x 962631 2 x 962569	32,50 - 48,57

WA = Distance from wall to back of radiator

Dimensions in mm

Brackets are included in the scope of delivery, necessary in case of repeat orders.

Illustration	Sketch Side view	Model				
		Application	Wall clearance mm	Brackets	Set	€/Set White Colour *
		Type ROHL-014/014, - 022/022, - 030/030, -037/030				
		Height 148 - 296 mm (2 – 4 elements); height 444 mm (6 elements); height 592 mm (8 elements)				
		L = 500 – 1900 L = 2000 – 2900 L = 3000	30	4 x C4, 4 x B1 6 x C4, 6 x B1 8 x C4, 8 x B1	1 x 962721 2 x 962721 2 x 962721	41,49 59,07
		Type ROHL-044/044, -052/044, -060/060, -067/060				
		Height 444 - 592 (6 -8 elements)				
		L = 500 – 1900 L = 2000 – 2900 L = 3000	30	4 x C4, 4 x A16 6 x C4, 6 x A16 8 x C4, 8 x A16	1 x 962711 2 x 962711 2 x 962711	41,49 59,07
		Type ROHL-044/030, -052/030, -060/030, -067/030, -074/030				
		Height 444 - 740 (6 – 10 elements)				
		L = 500 – 1900 L = 2000 – 3000	30	2 x C4, 2 x C7, 2 x B1 3 x C4, 3 x C7, 3 x B1	1 x 962761 2 x 962761	28,27 39,93
		Type ROHL-060/044, -067/044, -074/044, -074/060				
		Height 592 - 740 mm (8 – 10 elements)				
		L = 500 – 1900 L = 2000 – 3000	30	2 x C4, 2 x C7, 2 x A16 3 x C4, 3 x C7, 3 x A16	1 x 962751 2 x 962751	28,27 39,93

incl. retaining spring

incl. retaining spring

incl. retaining spring

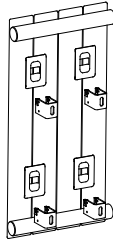
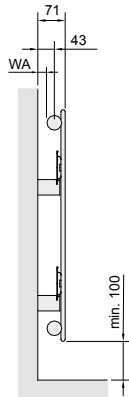
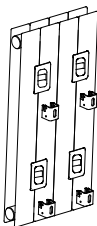
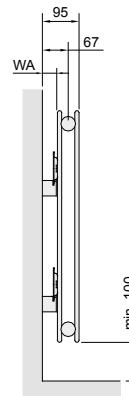
* The article-no. of the set in colour is produced by replacing the digit 1 by the end digit 9.

WA = Distance from wall to back of radiator

Dimensions in mm

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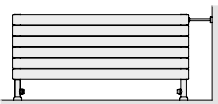
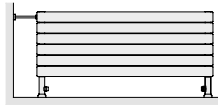
Brackets are included in the scope of delivery, necessary in case of repeat orders.

Illustration	Sketch Side view	Model					
		Application	Wall clearance WA mm	Brackets	Set	€/Set White Colour	
 incl. retaining spring		Type ROV					
		Length 74 – 148 mm (1 – 2 elements)					
		H = 500 - 2400 H = 2500 - 3000	24	2 x C1 3 x C1	1 x 962621 1 x 962559	32,50 -	- 48,57
		Length 222 – 1480 mm (3 - 20 elements)					
		H = 500 - 2400 H = 2500 - 3000	24	4 x C1 6 x C1	1 x 962621 1 x 962559 2 x 962621 2 x 962559	32,50 - 32,50 -	- 48,57 - 48,57
 incl. retaining spring		Type ROVD					
		Length 74 – 148 mm (1 – 2 elements)					
		H = 500 - 2400 H = 2500 - 3000	40	2 x C2 3 x C2	1 x 962631 1 x 962569	32,50 -	- 48,57
		Length 222 – 1480 mm (3 - 20 elements)					
		H = 500 - 2400 H = 2500 - 3000	40	4 x C2 6 x C2	1 x 962631 1 x 962569 2 x 962631 2 x 962569	32,50 - 32,50 -	- 48,57 - 48,57

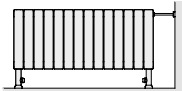
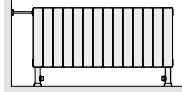
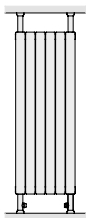
WA = Distance from wall to back of radiator

Dimensions in mm

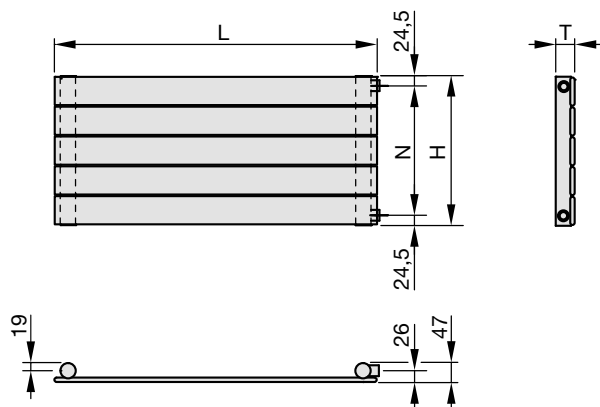
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Illustration	Description	Model			
		Application	Allocation	Set	Price/piece €
Welded floor support 	Floor supports in colour of radiator. Only up to height of 888 mm without wall fixing. Heights: 100 – 150 mm 150 – 200 mm 200 – 250 mm or special height	Type ROH, ROHD, ROHL			
		L = 500 - 2400	2 x feet	-	74,87
		L = 2500 - 3900	3 x feet	-	74,87
		L = 4000 - 6000	4 x feet	-	74,87
Room divider version right 	Height-adjustable feet (see above) + 1 lateral fixation		1 x lateral fixation	-	88,09
Room divider version left 					

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Illustration	Description	Model			
		Application	Allocation	Article no. Set white	Price/piece €
Welded floor support 	Floor supports in colour of the radiator. Only up to height of 900 mm without wall fixing. Heights: 100 – 150 mm 150 – 200 mm 200 – 250 mm or special height	Type ROV, ROVD			
		L = 148 (2 elements)	not possible	-	-
		L = 222 – 296 (3 – 4 elements)	1 foot	-	74,87
		L = 370 – 1480 (5 – 20 elements)	2 feet	-	74,87
Room divider version right  Room divider version left 	Height-adjustable feet (see above) + 1 lateral fixation		1 x lateral fixation	-	88,09
Room divider version to ceiling 	Height-adjustable feet (see above) + 2 lateral fixation		2 x ceiling fixation	-	88,09

Model ROH horizontal



- H = Height
 L = Length
 N = Boss spacing
 T = Depth of radiator
 A = Surface
 V = Water content
 M = Weight
 s_k = Proportion of radiation
 q_{ms} = Nominal flow rate
 n = Exponent
 Φ_s = Nominal heat output according to EN 442 (75/65/20 °C)
 Φ = Thermal output at system temperatures

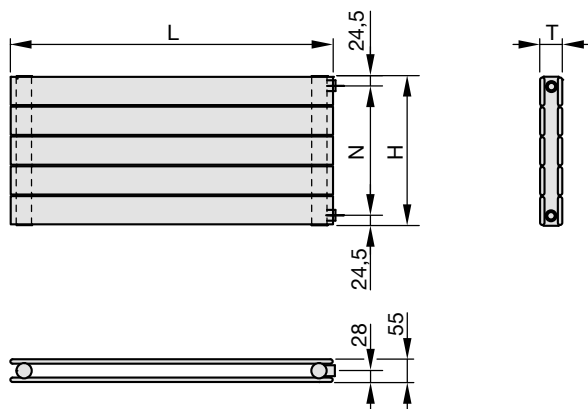
Dimensions in mm

Technical specifications for length 1000 mm (connection 7612)

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	$\Phi_s = \Delta T \text{ 50 K}$ EN442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
	mm	mm	mm	m ²	dm ³	kg	%	kg/h	n			
ROH14	148	99	47	0,34	1,4	3,4	30	15,3	1,28	178	143	92
ROH22	222	173	47	0,50	2,1	5,0	30	22,5	1,28	262	211	136
ROH30	296	247	47	0,67	2,8	6,6	30	29,6	1,28	344	277	178
ROH37	370	321	47	0,83	3,5	8,3	30	36,5	1,28	425	342	220
ROH44	444	395	47	1,00	4,2	9,9	30	43,5	1,28	505	408	262
ROH52	518	469	47	1,16	4,9	11,5	30	50,4	1,28	587	472	303
ROH60	592	543	47	1,33	5,6	13,1	30	57,2	1,28	665	536	344
ROH67	666	617	47	1,49	6,3	14,7	30	64,0	1,28	744	599	385
ROH74	740	691	47	1,65	7,0	16,4	30	70,8	1,28	823	663	425
ROH81	814	765	47	1,82	7,7	18,2	30	77,5	1,28	901	726	466
ROH89	888	839	47	1,98	8,4	19,7	30	84,3	1,28	980	789	507
ROH96	962	913	47	2,15	9,1	21,2	30	90,9	1,28	1057	851	546
ROH104	1036	987	47	2,31	9,8	22,9	30	97,6	1,28	1135	914	587
ROH111	1110	1061	47	2,48	10,5	24,5	30	104,2	1,28	1212	976	626
ROH118	1184	1135	47	2,64	11,2	26,1	30	110,9	1,28	1290	1039	667
ROH126	1258	1209	47	2,81	12,0	27,7	30	117,5	1,28	1367	1101	706
ROH133	1332	1283	47	2,97	12,7	29,4	30	124,2	1,28	1444	1163	746
ROH140	1406	1357	47	3,14	13,4	31,0	30	130,8	1,28	1521	1225	786
ROH148	1480	1431	47	3,30	14,1	32,7	30	137,3	1,28	1597	1286	825

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Model ROHD horizontal



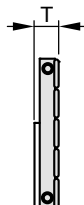
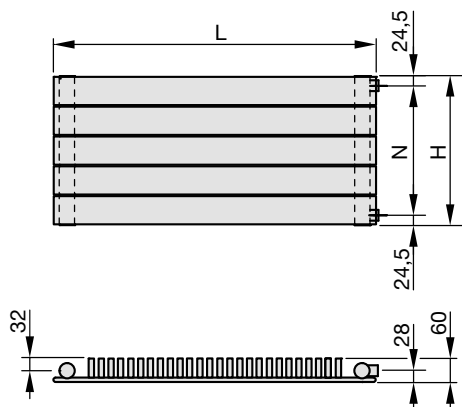
- H = Height
 L = Length
 N = Boss spacing
 T = Depth of radiator
 A = Surface
 V = Water content
 M = Weight
 s_k = Proportion of radiation
 q_{ms} = Nominal flow rate
 n = Exponent
 Φ_s = Nominal heat output according to EN 442 (75/65/20 °C)
 Φ = Thermal output at system temperatures

Dimensions in mm

Technical specifications for length 1000 mm (connection 7612)

Model	H mm	N mm	T mm	A m ²	V dm ³	M kg	s_k %	q_{ms} kg/h	Exp. n	$\Phi_s = \Delta T \text{ 50 K}$ EN442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
ROHD14	148	99	55	0,68	2,8	6,6	30	28,2	1,26	328	265	171
ROHD22	222	173	55	1,01	4,2	9,7	30	39,7	1,26	462	373	241
ROHD30	296	247	55	1,33	5,6	12,8	30	50,8	1,26	591	477	308
ROHD37	370	321	55	1,66	7,0	16,0	30	61,5	1,26	715	577	373
ROHD44	444	395	55	1,99	8,4	19,2	30	71,8	1,26	835	674	435
ROHD52	518	469	55	2,32	9,8	22,3	30	81,9	1,26	953	769	496
ROHD60	592	543	55	2,65	11,2	25,5	30	91,9	1,26	1069	863	557
ROHD67	666	617	55	2,98	12,6	28,6	30	101,7	1,26	1183	955	616
ROHD74	740	691	55	3,31	14,0	31,8	30	111,3	1,26	1295	1045	674
ROHD81	814	765	55	3,64	15,4	34,9	30	121,0	1,26	1407	1135	732
ROHD89	888	839	55	3,97	16,8	38,1	30	130,4	1,26	1517	1224	789
ROHD96	962	913	55	4,30	18,2	41,2	30	139,8	1,27	1626	1312	846
ROHD104	1036	987	55	4,63	19,6	44,4	30	149,1	1,27	1734	1399	902
ROHD111	1110	1061	55	4,95	21,0	47,5	30	158,4	1,27	1842	1486	958
ROHD118	1184	1135	55	5,28	22,4	50,7	30	167,6	1,27	1949	1572	1013
ROHD126	1258	1209	55	5,61	24,0	53,8	30	176,7	1,27	2055	1658	1068
ROHD133	1332	1283	55	5,94	25,4	57,0	30	185,8	1,27	2161	1743	1123
ROHD140	1406	1357	55	6,27	26,8	60,1	30	194,8	1,27	2266	1827	1177
ROHD148	1480	1431	55	6,60	28,2	63,3	30	203,9	1,30	2371	1902	1211

Model ROHL horizontal



- H = Height
 L = Length
 N = Boss spacing
 T = Depth of radiator
 A = Surface
 V = Water content
 M = Weight
 s_k = Proportion of radiation
 q_{ms} = Nominal flow rate
 n = Exponent
 Φ_s = Nominal heat output according to EN 442 (75/65/20 °C)
 Φ = Thermal output at system temperatures

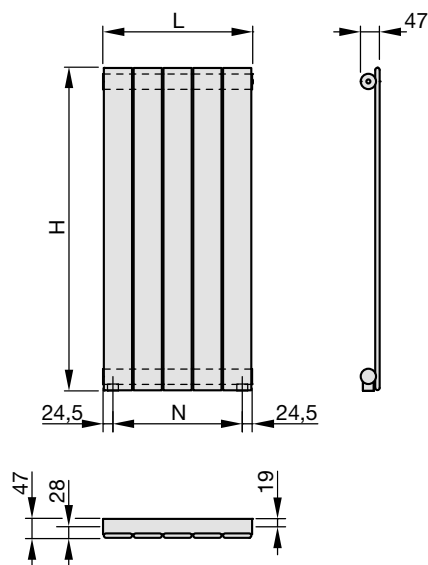
Dimensions in mm

Technical specifications for length 1000 mm (connection 7612)

Model	H mm	H Fin mm	N mm	T mm	A m ²	V dm ³	M kg	s_k %	q_{ms} kg/h	Exp. n	$\Phi_s = \Delta T \text{ 50 K}$ EN442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
ROHL-014/014	148	134	99	60	2,49	1,4	6,5	30	30,1	1,15	350	288	194
ROHL-022/022	222	208	173	60	3,73	2,1	10,0	30	43,9	1,26	511	413	266
ROHL-030/030	296	282	247	60	4,98	2,8	13,4	30	54,8	1,27	637	514	331
ROHL-037/030	370	282	321	60	5,14	3,5	15,0	30	61,8	1,28	719	579	371
ROHL-044/030	444	282	395	60	5,31	4,2	16,6	30	68,9	1,29	801	644	411
ROHL-044/044	444	410	395	60	7,46	4,2	16,4	30	72,7	1,24	845	684	445
ROHL-052/030	518	282	469	60	5,47	4,9	18,2	30	76,0	1,30	884	709	451
ROHL-052/044	518	410	469	60	7,62	4,9	18,0	30	79,7	1,24	927	751	487
ROHL-060/030	592	282	543	60	5,63	5,6	19,8	30	83,3	1,31	969	775	491
ROHL-060/044	592	410	543	60	7,79	5,6	19,6	30	86,4	1,25	1005	814	528
ROHL-060/060	592	550	543	60	9,94	5,6	21,9	30	91,1	1,26	1060	857	554
ROHL-067/030	666	282	617	60	5,80	6,3	21,4	30	90,9	1,33	1057	844	533
ROHL-067/044	666	410	617	60	7,95	6,3	21,2	30	92,9	1,25	1081	875	567
ROHL-067/060	666	550	617	60	10,11	6,3	23,5	30	97,7	1,26	1136	918	594
ROHL-074/030	740	282	691	60	5,96	7,0	23,0	30	98,6	1,34	1147	914	574
ROHL-074/044	740	410	691	60	8,12	7,0	22,8	30	99,3	1,25	1155	934	605
ROHL-074/060	740	550	691	60	10,27	7,0	25,2	30	104,0	1,26	1210	978	632

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Model ROV vertical



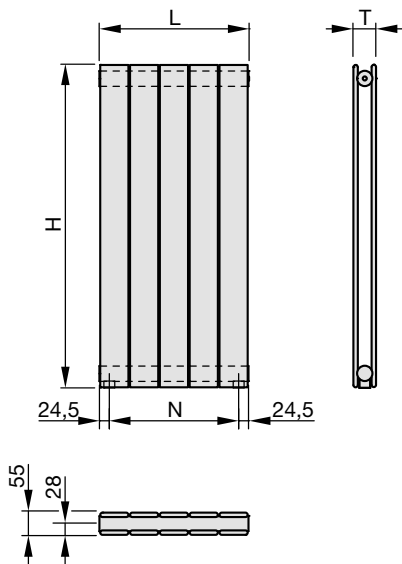
- H = Height
 L = Length
 N = Boss spacing
 T = Depth of radiator
 A = Surface
 V = Water content
 M = Weight
 s_k = Proportion of radiation
 q_{ms} = Nominal flow rate
 n = Exponent
 Φ_s = Nominal heat output according to EN 442 (75/65/20 °C)
 Φ = Thermal output at system temperatures

Dimensions in mm

Technical specifications per element (connection S007)

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	$\Phi_s = \Delta T 50 K$ EN442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
	mm	mm	mm	m ²	dm ³	kg	%	kg/h	n			
ROV50	500	432	47	0,10	0,4	1,0	30	3,7	1,32	43	34	22
ROV60	600	532	47	0,12	0,5	1,2	30	4,5	1,32	52	42	26
ROV70	700	632	47	0,13	0,5	1,3	30	5,2	1,32	60	48	30
ROV80	800	732	47	0,15	0,6	1,5	30	5,8	1,32	68	54	34
ROV90	900	832	47	0,16	0,6	1,6	30	6,4	1,32	75	60	38
ROV100	1000	932	47	0,17	0,7	1,8	30	7,1	1,32	83	66	42
ROV110	1100	1032	47	0,19	0,8	1,9	30	7,7	1,32	90	72	46
ROV120	1200	1132	47	0,20	0,8	2,1	30	8,4	1,32	98	78	50
ROV130	1300	1232	47	0,22	0,9	2,3	30	9,1	1,32	106	85	54
ROV140	1400	1332	47	0,23	0,9	2,4	30	9,7	1,31	113	90	57
ROV150	1500	1432	47	0,24	1,0	2,6	30	10,3	1,31	120	96	61
ROV160	1600	1532	47	0,26	1,0	2,7	30	10,9	1,31	127	102	64
ROV170	1700	1632	47	0,27	1,1	2,9	30	11,6	1,31	135	108	69
ROV180	1800	1732	47	0,29	1,1	3,0	30	12,2	1,31	142	114	72
ROV190	1900	1832	47	0,30	1,2	3,2	30	12,8	1,31	149	119	76
ROV200	2000	1932	47	0,31	1,3	3,3	30	13,3	1,31	155	124	79
ROV210	2100	2032	47	0,33	1,3	3,5	30	13,9	1,31	162	130	82
ROV220	2200	2132	47	0,34	1,4	3,6	30	14,5	1,31	169	135	86
ROV230	2300	2232	47	0,36	1,4	3,8	30	15,1	1,30	176	141	90
ROV240	2400	2332	47	0,37	1,5	3,9	30	15,6	1,30	182	146	93
ROV250	2500	2432	47	0,38	1,5	4,1	30	16,3	1,30	189	152	96
ROV260	2600	2532	47	0,40	1,6	4,2	30	16,7	1,30	194	156	99
ROV270	2700	2632	47	0,41	1,6	4,4	30	17,3	1,30	201	161	103
ROV280	2800	2732	47	0,43	1,7	4,5	30	17,9	1,30	208	167	106
ROV290	2900	2832	47	0,44	1,8	4,7	30	18,3	1,30	213	171	109
ROV300	3000	2932	47	0,45	1,8	4,9	30	18,8	1,30	219	176	112

Model ROVD vertical



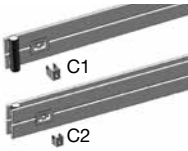
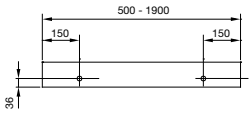
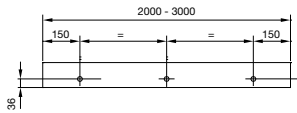
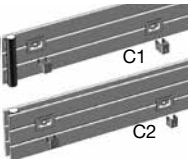
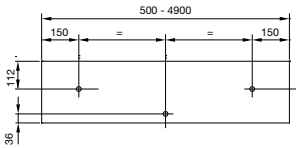
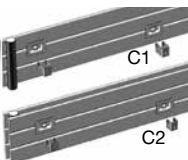
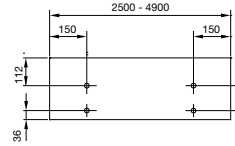
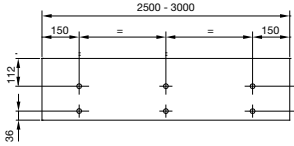
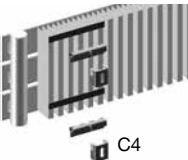
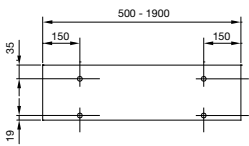
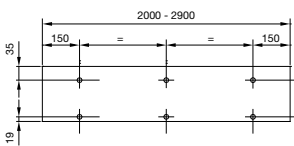
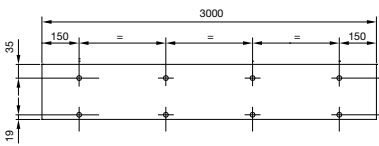
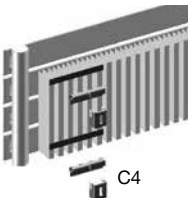
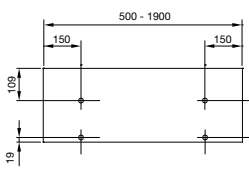
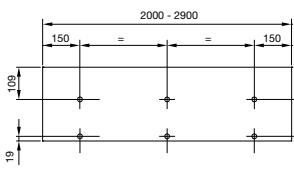
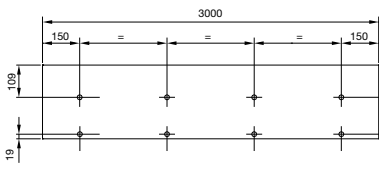
- H = Height
 L = Length
 N = Boss spacing
 T = Depth of radiator
 A = Surface
 V = Water content
 M = Weight
 s_k = Proportion of radiation
 q_{ms} = Nominal flow rate
 n = Exponent
 Φ_s = Nominal heat output according to EN 442 (75/65/20 °C)
 Φ = Thermal output at system temperatures

Dimensions in mm

Technical specifications per element (connection S007)

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	$\Phi_s = \Delta T 50 K$ EN442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
	mm	mm	mm	m ²	dm ³	kg	%	kg/h	n			
ROVD50	500	432	55	0,17	0,7	1,8	30	5,6	1,29	65	52	33
ROVD60	600	532	55	0,21	0,8	2,1	30	6,6	1,28	77	62	40
ROVD70	700	632	55	0,24	0,9	2,4	30	7,6	1,33	89	71	44
ROVD80	800	732	55	0,28	1,0	2,7	30	8,6	1,33	100	80	50
ROVD90	900	832	55	0,31	1,1	3,1	30	9,5	1,33	111	89	56
ROVD100	1000	932	55	0,35	1,3	3,4	30	10,5	1,33	122	97	61
ROVD110	1100	1032	55	0,38	1,4	3,7	30	11,4	1,33	133	106	67
ROVD120	1200	1132	55	0,42	1,5	4,0	30	12,4	1,33	144	115	73
ROVD130	1300	1232	55	0,45	1,6	4,3	30	13,3	1,33	155	124	78
ROVD140	1400	1332	55	0,49	1,7	4,6	30	14,2	1,33	165	132	83
ROVD150	1500	1432	55	0,52	1,8	4,9	30	15,1	1,32	176	141	89
ROVD160	1600	1532	55	0,56	1,9	5,2	30	16,0	1,32	186	149	94
ROVD170	1700	1632	55	0,59	2,0	5,5	30	16,9	1,32	196	157	99
ROVD180	1800	1732	55	0,63	2,2	5,8	30	17,7	1,32	206	165	104
ROVD190	1900	1832	55	0,66	2,3	6,1	30	18,7	1,32	216	174	110
ROVD200	2000	1932	55	0,69	2,4	6,4	30	19,3	1,32	225	180	114
ROVD210	2100	2032	55	0,73	2,5	6,7	30	20,1	1,32	235	187	118
ROVD220	2200	2132	55	0,76	2,6	7,0	30	21,0	1,32	244	195	123
ROVD230	2300	2232	55	0,80	2,7	7,3	30	21,9	1,32	254	204	129
ROVD240	2400	2332	55	0,83	2,8	7,6	30	22,6	1,32	263	210	133
ROVD250	2500	2432	55	0,87	2,9	7,9	30	23,4	1,32	272	218	138
ROVD260	2600	2532	55	0,90	3,0	8,3	30	24,2	1,31	281	225	142
ROVD270	2700	2632	55	0,94	3,2	8,6	30	24,9	1,31	290	232	147
ROVD280	2800	2732	55	0,97	3,3	8,9	30	25,8	1,31	300	240	152
ROVD290	2900	2832	55	1,01	3,4	9,2	30	26,5	1,31	308	247	156
ROVD300	3000	2932	55	1,04	3,5	9,5	30	27,3	1,31	317	254	161

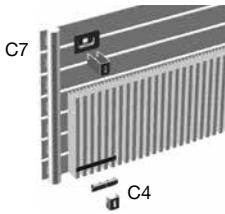
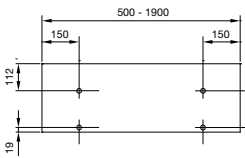
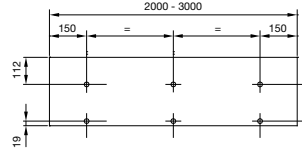
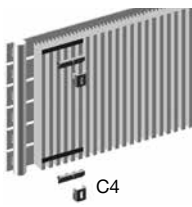
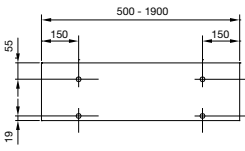
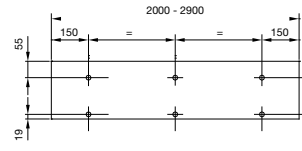
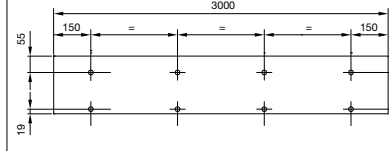
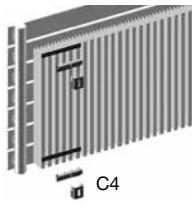
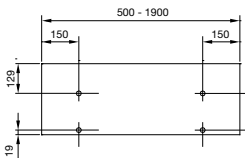
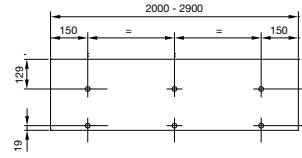
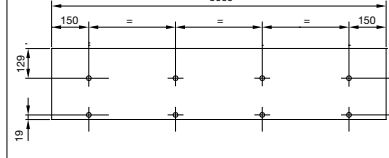
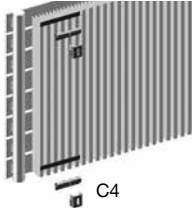
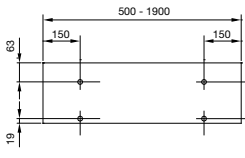
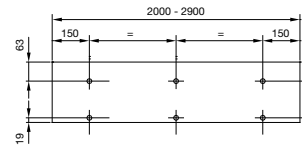
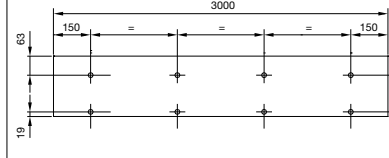
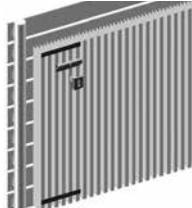
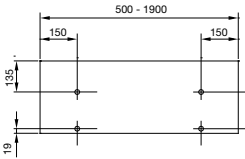
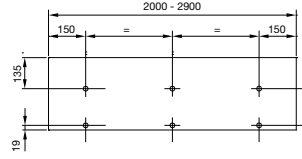
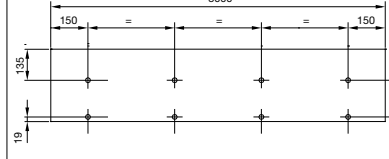
Installation points, horizontal version

H = 148 ROH14, ROHD14 	B	L = 500 - 1900 	B	L = 2000 - 3000 		
H = 222 ROH22, ROHD22 	B	L = 500 - 4900 				
H = 296 - 1480 ROH30 - ROH148 ROHD30 - ROHD148 	B	L = 500 - 2400 	B	L = 2500 - 3000 		
H = 148 - 296 ROHL-014/014 ROHL-022/022 ROHL-030/030 	B	L = 500 - 1900 	B	L = 2000 - 2900 	B	L = 3000 
H = 370 ROHL-037/030 	B	L = 500 - 1900 	B	L = 2000 - 2900 	B	L = 3000 

- = Position of drill hole
- H = Height
- L = Length
- B = Required number of brackets

Dimensions in mm

Installation points, horizontal version

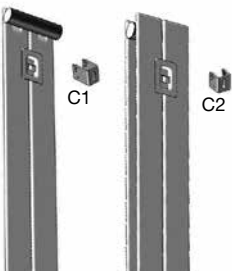
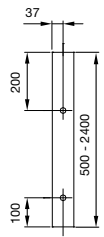
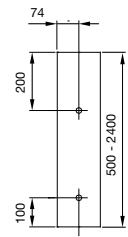
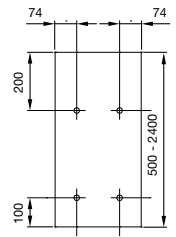
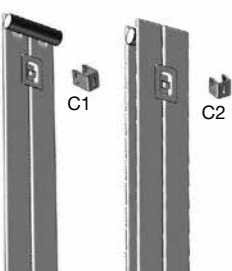
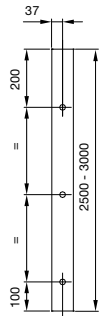
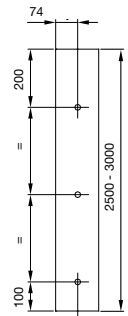
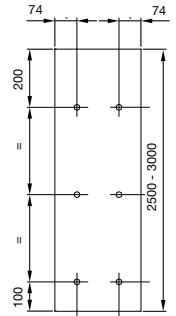
H = 440 - 740 ROHL044/030, ROHL052/030 ROHL060/030, ROHL060/044 ROHL067/030, ROHL067/044 ROHL074/030, ROHL074/044 ROHL074/060 	B	L = 500 - 1900 	B	L = 2000 - 3000 		
H = 444 ROHL-044/044 	B	L = 500 - 1900 	B	L = 2000 - 2900 	B	L = 3000 
H = 518 ROHL-052/044 	B	L = 500 - 1900 	B	L = 2000 - 2900 	B	L = 3000 
H = 592 ROHL-060/060 	B	L = 500 - 1900 	B	L = 2000 - 2900 	B	L = 3000 
H = 666 ROHL-067/060 	B	L = 500 - 1900 	B	L = 2000 - 2900 	B	L = 3000 

- = Position of drill hole
- H = Height
- L = Length
- B = Required number of brackets

Dimensions in mm

Zehnder Roda

Installation points, vertical version

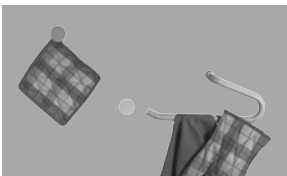
H = 500 - 2400	B	L = 74 (1 element)	B	L = 148 (2 elements)	B	L = 222 - 1480 (3 - 20 elements)
	2		2		4	
H = 2500 - 3000	B	L = 74 (1 element)	B	L = 148 (2 elements)	B	L = 222 - 1480 (3 - 20 elements)
	3		3		6	

- = Position of drill hole
- H = Height

- L = Length
- B = Required number of brackets

Dimensions in mm

Rails and hooks

Description		Version	Article number	Price €	Application
Pair of towel hook Ø 50 mm		White	480891	143,33	Zehnder Roda (only ROH and ROV)
		Chrome	480718	174,56	
		Special finish	480899	185,73	
Hook set 2 pegs and 1 towel rail		White	480751	190,43	Zehnder Roda (only ROH and ROV)
		Special finish	480759	217,71	

Miscellaneous

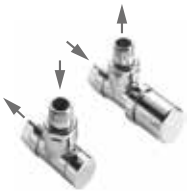
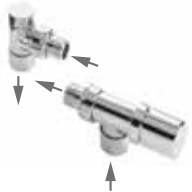
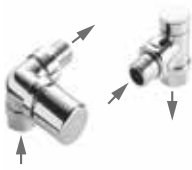
Description		Version	Article number	Price €	Application
Lacquer aerosol Original paint, air-drying For improving the surface finish, 150 ml RAL 9001 (Cream White) RAL 9002 (Grey White) RAL 9010 (Pure White) RAL 9016 (Traffic White)		Colour:			
		RAL 9001	977020	30,75	
		RAL 9002	977050	30,75	
		RAL 9010	977080	30,75	
		RAL 9016	977090	30,75	
Lacquer pens Original paint, air-drying For repairing minor damage RAL 9010 (Pure White) RAL 9016 (Traffic White)		Colour:			
		RAL 9010	675020	26,18	
		RAL 9016	675130	26,18	
		On request	675000	26,18	

Thermostats

Description		Version	Article number	Price €	Application
Zehnder thermostat "LH2" Thermostat with integrated fluid sensor, tested according to EN 215. Can be restricted and locked to individual reference value of 7 to 28 °C. Version with zero setting and threaded connection for thermostat M 30 x 1,5		White Chrome	819140 819148	35,02 60,35	For all radiators with threaded connection M 30 x 1,5 mm
Zehnder thermostat "DH" Thermostat with integrated expansion material sensor, reference value range 7 to 28 °C. Version with zero setting		White Chrome	819050 819058	35,02 53,36	
Zehnder thermostat "SH" Elegant thermostat with integrated fluid sensor, tested according to EN 215, reference value range 7 to 28 °C. Version with zero setting. Thermostat threaded connection M 30 x 1,5 with coupling nut in chrome.		White Chrome Stainless steel	819080 819088 819082	38,09 53,47 53,47	
Zehnder thermostat „Design Line“ Thermostat with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5		White Chrome Stainless steel optic Special finish	841271 841278 853720 841279	64,11 64,11 131,65 73,79	

All fittings etc. suitable for operating temperature max. 110 °C and operating pressure max. 10 bar, unless indicated otherwise.

Zehnder Design Line Valve

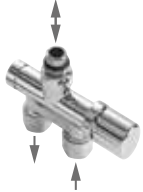
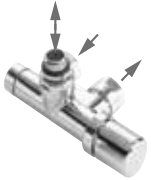
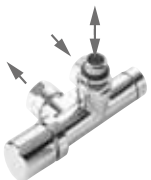
Description		Version	Article number	Price €	Application
Valve set type A Angled flow and lockshield, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, manual handwheel, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		Chrome	838888	76,44	For all radiators with ½" female thread
Valve set type B Angled flow and lockshield, manual handwheel thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	838891 838898	119,66 119,66	
Valve set type C Straight flow and lockshield, manual handwheel thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	838941 838948	119,66 119,66	
Valve set type D Reverse flow and angled lockshield, manual handwheel thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	838951 838958	125,37 125,37	
Valve set type G Angled-angled flow head to the left, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, manual handwheel, lockshield angled, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	838981 838988	133,41 133,41	
Valve set type I Angled-angled flow head to the right, manual handwheel, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, lockshield angled, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	838991 838998	133,41 133,41	

→ Direction of flow

All valves etc. suitable for operating temperature max. 110 °C and operating pressure max. 10 bar, if not indicated differently.
For further information, please see information in the keyword list.

All valves respectively connection fittings are delivered with handwheels as protection caps (thermostatic heads to be ordered separately) and union nuts as transition to the tube (matching adaptors and connection sets are to be ordered separately!) --> see page 51

Zehnder Design Line

Description		Version	Article number	Price €	Application
Valve type J Single entry/monotube valve vertical, straight, with by-pass, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, turnable for manual handwheel to the left or right, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body and dip tube, without adaptors for pipes		White Chrome	839001 839008	132,50 132,50	For all radiators with ½" female thread
Valve type K Single entry/monotube valve vertical, angled, with by-pass, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, manual handwheel to the right, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body and dip tube, without adaptors for pipes		White Chrome	839011 839018	129,26 129,26	
Valve type M Single entry/monotube valve vertical, angled, with by-pass, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, manual handwheel to the left, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body and dip tube, without adaptors for pipes		White Chrome	839021 839028	129,26 129,26	
Valve type N Single entry/monotube valve horizontal, straight, with by-pass, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, manual handwheel to the top, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body and dip tube, without adaptors for pipes		White Chrome	839031 839038	173,82 173,82	
Valve type O 50 mm straight, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7 and by-pass, turnable for manual handwheel to the left or right, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	839041 839048	132,50 132,50	
Valve type P 50 mm angled, with by-pass, to the right thermostatic insert M 30 x 1,5 mm, with pre-setting 1-7 and by-pass, manual handwheel, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	839051 839058	132,50 132,50	
Valve type Q 50 mm angled, with by-pass, to the left thermostatic insert M 30 x 1,5 mm with pre-setting 1-7 and by-pass, manual handwheel, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	839101 839108	132,50 132,50	
Valve type U 50 mm swiveling design valve straight or angled, with by-pass, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, manual handwheel to the left or to the right, including 2 pcs ¾" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes		White Chrome	839171 839178	242,19 242,19	

Zehnder Design Line Coloured Valves



Description		Version	Article nr.	Price €	Application
Zehnder thermostat "Design Line" Thermostat with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5		Special finish	841279	73,79	For all radiators with 1/2" female thread, in colour of radiator
Valve set type B Angled flow and lockshield, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7, including 2 pcs 3/4" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes. Thermostat Design Line with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5.		Special finish			
		Valve set with manual handwheel	838899	119,66	
		Valve set including Design Line thermostat	839439	193,45	
Valve type O 50 mm straight, thermostatic insert M 30 x 1,5 mm with pre-setting 1-7 and by-pass, turnable to the left or right, including 2 pcs 3/4" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes. Thermostat Design Line with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5.		Special finish			
		Valve set with manual handwheel	839049	132,50	
		Valve set including Design Line thermostat	839409	206,29	
Valve type P 50 mm angled, with by-pass, to the right thermostatic insert M 30 x 1,5 mm, with pre-setting 1-7 and by-pass, including 2 pcs 3/4" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes. Thermostat Design Line with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5.		Special finish			
		Valve set with manual handwheel	839059	132,50	
		Valve set including Design Line thermostat	839419	206,29	
Valve type Q 50 mm angled, with by-pass, to the left thermostatic insert M 30 x 1,5 mm with pre-setting 1-7 and by-pass, including 2 pcs 3/4" Eurocone nuts Ø 16,8 mm in finish of valve body, without adaptors for pipes. Thermostat Design Line with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5.		Special finish			
		Valve set with manual handwheel	839109	132,50	
		Valve set including Design Line thermostat	839429	206,29	

All valves etc. suitable for operating temperature max. 110 °C and operating pressure max. 10 bar, if not indicated differently.
 For further information, please see information in the keyword list.

Zehnder Design Line Accessories

Description		Version	Article number	Price €	Application
Nut ½", 2 pcs Fe - ¾" Eurocone		White	842001	24,23	Adaptor for screw fittings with ½" external thread
		Chrome	842008	24,23	
Adaptors, 2 pcs Multilayer Ø 14 mm		Brass	842160	11,41	Matching to Zehnder Design Line valves and union nuts (2 x ¾" Eurocone Ø 16,8 mm) which are in the scope of delivery
Adaptors, 2 pcs Multilayer 16 x 2,0 mm		Brass	842060	11,41	
Adaptors, 2 pcs PEX 12 x 1,0 mm		Brass	842070	11,41	
Adaptors, 2 pcs Multilayer Ø 16 x 2,25 mm		Brass	842170	11,41	
Adaptors, 2 pcs Copper Ø 10 mm Copper Ø 12 mm Copper Ø 14 mm Copper Ø 15 mm Copper Ø 16 mm		Brass	842080	7,13	
		Brass	842090	7,13	
		Brass	842100	7,13	
		Brass	842110	7,13	
		Brass	842120	7,13	
		Brass	842120	7,13	
Nuts Ø 18 mm - ¾" Eurocone + adaptors copper Ø 18 mm 2 pcs		Chrome / Brass	842140	35,63	
Nuts Ø 20,8 mm - ¾" Eurocone + adaptors multilayer Ø 20 x 2 mm 2 pcs		Chrome / Brass	842150	35,63	
Universal Adaptor set (without nuts ¾" Eurocone - Ø 16,8 mm) - 2 pcs Alu/Pex multilayer 16 x 2,0 mm - 2 pcs PEX 12 x 1 mm - 2 pcs CU 12 mm - 2 pcs CU 14 mm - 2 pcs CU 15 mm		Brass	842180	39,90	

Zehnder Design Line Accessories



Description		Version	Article number	Price €	Application
Sleeving kit L = 70 mm L = 160 mm		Chrome	853738	24,23	For radiator installation
		Chrome	853668	31,33	
Collar Ø45 mm for Ø ½" for Ø 10 mm for Ø 12 mm for Ø 14 mm for Ø 15 mm for Ø 16 mm for Ø 18 mm		White	816241	2,85	For existing connections
		Chrome	816248	7,13	
		White	816251	2,85	
		Chrome	816258	7,13	
		White	816261	2,85	
		Chrome	816268	7,13	
		White	816271	2,85	
		Chrome	816278	7,13	
		White	816281	2,85	
		Chrome	816288	7,13	
		White	816291	2,85	
		Chrome	816298	7,13	
		White	816301	2,85	
		Chrome	816308	7,13	

Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

Keyword list

Accessories

A wide range of accessories are available for various additional uses, such as hanging up towels. For more information, see the section on "Accessories".

Accessory set

To make accessories simple to choose, accessory sets are offered for each radiator. Detailed information is provided in the relevant section.

Baffle

To avoid reduced output, e.g. with a riding connection, internal installations, e.g. baffles, deflector plates, guide plates, are required. Detailed information is available on request.

Advantages

See "Product description".

Brackets

Appropriate brackets are offered as an accessory set for the respective radiators. Detailed information is given alongside the relevant products and in the "Accessories" section. Also see notes under "Fixings".

CE marking

The CE marking on Zehnder radiators shows that they are manufactured in accordance with the prevailing European standard EN 442 and that the product has been subjected to the prescribed conformity evaluation procedure.



The following parameters, which allow the CE mark to be shown, can be found in the respective product section:

- Model designation
- Max. operating pressure
- Nominal heat output

Product/product family	CE - Year
Zehnder Roda	CE - 15

Clear Lacquer Version (Technoline)

See "Colours"

Connections

Each Zehnder radiator is supplied complete with connections. Unless stated otherwise, all connections are female threads. Unless a different dimension is specified, the supplied connections are 1/2". Orders without a connection type number will always be delivered with the respective standard connection. Plastic plugs inserted to protect the thread must be removed and replaced with an directional air vent / draining valve or blind plug.

Conversion

Factor for converting the nominal heat output to thermal outputs at other system temperatures, see "Thermal output".

Corrosion protection

See "Finish" and "Surface protection".

Colours

Zehnder radiators are available in almost every colour conceivable. From all possible colours, the Zehnder colour chart shows a selection of colours from various colour systems, such as RAL colours, sanitary colours or colours from the NCS-S system. The standard paint for the entire Zehnder radiator programme is the colour RAL 9016, Traffic White. 33 common colours make up Zehnder colour category 1, with an additional charge of 20%, 12 others colour make up category 2, with an additional charge of 30% on the standard finish. All other paintable colours are available for a surcharge on request. These colour deviations are not a fault and are therefore not subject to

claims under warranty as described in our "General Sales and Delivery Conditions".

Structural paints (structured paint surface) are possible on Zehnder radiators and also fall under category 2.

The Zehnder colour chart is printed on the inside of the rear catalogue cover.

For more information, see "Finish".

Description

The description for a product contains all the information needed to create a specification or tender. The text-block structure simplifies the composition of all necessary features according to on-site requirements.

Dimensions

The dimensions indicated in the documentation are correct at the time of printing. Subject to change without notice.

Electric radiators and EcoDesign guidelines

The electric guidelines define fixed units consisting of a corpus, a filling medium (heat transfer liquid), a heating insert and a matching control device. This unit is the base for a function test and it may not be modified.

The heat transfer liquid is frost proof up to -20 °C, if there are no further restrictions listed in the standard scope of delivery for the corresponding radiator.

Electric radiators are subject to the EcoDesign guidelines. Aim of this guideline is the reduction of environmental impacts of relevant energy consumption production taking the product lifecycle into consideration. The fulfillment of the guideline is rated according a specific points system. Different functions are e.g. stand-by mode ≤ 05 W weekly program or open-window detection contribute in fulfilling the minimum requirements. The electrical radiators in this price-list match the EcoDesign guidelines.

Please note:

- The electrical installations need to be accordance with local guidelines.
- For fixed installations (without plug) a switch needs to be installed. (All poles of the power supply with min 3m contact distance.)
- The filling capacity may not be altered.
- The electric heating element and connection cable may only be opened and replaced by the manufacturer.
- When installing an electrical radiator, a qualified electrician is the competent person to contact.
- Follow the user manual precisely.

Environment

The certification of our environmental management system to DIN EN ISO 14 001 by an independent institution obliges us to make continuous improvements to our environmental services through reducing or avoiding environmental burdens and waste, encouraging the utilisation and protection of resources as well as observing all environmental laws and regulations applicable to us.

Finish

Ready-painted radiators in this price list have a two-coat finish (to DIN 55900, Part 1 and 2, comprising primer and top coat).

The top coat is a powder coating. The high-quality Zehnder powder coating produces an especially smooth and extremely durable surface. Further information on the applications and limits of radiators is contained in information sheet number 7 of the BDH (Bundesindustrieverband Deutschland, Haus-, Energie- und Umwelttechnik e.V.).

Please always use the original RAL, NCS colour samples or original colour charts of the sanitary manufacturers for exact colour matching. For technical production reasons, minor colour deviations are possible in paints on steel surfaces, also when taking the prevailing lighting conditions into account. Deviations can also occur when comparing painted steel surfaces (radiators) with ceramic products.

Keyword list

The colours shown here (see inside of rear cover) are not binding for printing reasons. Radiators in metallic colours, e.g. RAL 9006, RAL 9007 and Anthracite are unique products and visual differences may appear in the colour, depending on the radiator.

Fins

To increase the convective thermal output, convection fins are used.

Fixings

To ensure that radiators are fitted safely, the weight of the radiator and other aspects must be considered when choosing the right quality and quantity of fixings. Additional loads and foreseeable misuse of a radiator must be considered or ruled out by planning and implementation in line with the known building use. The installation situation and accessibility are just as important criteria as wall material, bracket shape, location of the suspension points, locking device, add-on elements and the like.

Detailed information on the required number of fixing axes in accordance with VDI 6036 requirements class 2 is given for the respective products in the section on "Installation accessories". Recommendations for additional requirements classes on request. See also the key word VDI 6036.

Flow connection

This concerns the connection on the radiator through which the hot water flows into the radiator.

Galvanising

Product/product family	Maximum dimension galvanised
Zehnder Roda	-

Ground clearance

A reduction in the distance between the radiator and the floor can result in reduced output. For more information, see "Reduced output".

Guide plate

See "Baffle".

High pressure

Even with suitable radiators and accessory parts, pressure loads up to a maximum of 18 bar are only permitted if pressure surges can be excluded.

Hydraulic balancing

By hydraulic balancing the various system resistances are set so that the radiators are supplied with the necessary quantity of water at all operational points, in order to achieve the desired thermal output.

Immersion tube

Some types of connection require the installation of an immersion tube to achieve optimal heat distribution.

Inlet and outlet resistance

The resistance coefficient (zeta value) is used to calculate the pressure loss. For more information, see "Pressure loss".

Installation in series

The installation in series of radiators refers to the series connection of several radiators. Detailed information is given alongside the relevant products.

Joining

Zehnder radiators in lengths above the set maximum number of elements are supplied in sub-blocks and must be joined together on site.

Lance valve

The lances must be shortened or extended, depending on the radiator and connection types. Detailed information is available on request. See keyword "Single-tube systems".

Length restrictions

Avoiding damage during transport significantly increases the cost of packaging, which must be charged for accordingly.

Made to measure

Zehnder radiators can be customised (e.g. angled, curved, with welded brackets). Special shapes require templates to be made from solid materials (cardboard, packing paper) in order to guarantee quick and trouble-free processing. The support of the area manager can be used for a small charge.

Where necessary, the customer will receive a scale drawing of the version to be installed and final pricing for inspection and approval, after which the order will be manufactured. The order cannot be cancelled once placed.

Minimum water flow

If the flow of water through a radiator is heavily reduced, the heat output can fall far below the calculated or indicated value. For this reason, a minimum water flow should always be ensured.

The following table shows the approximate minimum water flows $q_{m \min}$ in % of the nominal flow rate q_{ms} which does not cause the thermal output to deviate from the standard characteristic curve by more than 5%.

For some radiators, similar conditions can be reached through additional installations, even at lower water flows as shown in the following table. More information is available on request.

Operating pressure

The maximum permissible operating pressure of a radiator depends on its geometry, the material used and the finish. The permissible operating pressure varies according to the product, see table: Suitable fittings, plugs and directional air vents must be ensured in connection with high pressure applications in excess of 10 bar. See "High pressure".

Product/product family	Standard version [bar]	High pressure version [bar]
Zehnder Roda	4	9

Operating temperature

The coating of Zehnder radiators can be used for central heating systems up to 110 °C. It is suitable for use in district heating, low temperature and condensing systems.

Packaging

The packaging of Zehnder radiators serves as protection against damage during transport and on building sites. It must be removed before starting the system for the first time in order to avoid any damage caused by condensation.

Pressure loss

The pressure loss is determined using a zeta value of 2,5 per radiator for connection sizes from $\frac{3}{8}$ " to $\frac{3}{4}$ " and a flow velocity of 1 m/sec. The inherent resistance of a radiator can be ignored. In special cases (e.g. where an integrated valve is fitted), information on pressure losses is provided.

Keyword list

Prices

Terms of delivery for quoted prices are: FCA Lahr. All prices are gross prices. Where prices are not stated or only shown with the proviso 'current list price', the valid list prices will be calculated on the day of delivery. Also see General Sales and Delivery Conditions.

Quality check

Zehnder Group Deutschland GmbH is certified to DIN ISO 9001 and is therefore subject to stringent quality controls carried out by independent institutions in the areas of design/development, production, assembly and customer service.

Reflective cover plates

The disadvantage of installing a radiator in front of external glazing is that heat is lost directly through the glass. The back of a radiator emits heat in the form of thermal radiation in the same way as the front. For wall mounted radiators, the thermal radiation is reflected or absorbed by the wall, whereas this long-wave radiation radiates almost unimpeded through the pane of glass when radiators are installed in front of windows, even at greater distances.

In order to avoid this unnecessary loss of heat and energy, radiators are available with a reflective cover plate fitted to the side of the radiator facing the window.

The requirement for thermal radiation shields previously anchored in the Federal Heat Insulation Ordinance (WVO) is also fulfilled as a result of this.

The installation of thermal radiation shields in front of external glazing is also expedient in times of the Energy Saving Ordinance (EnEV) and is recommended especially with low overall heat transfer resistance on the part of the windows.

Returns

Radiators and accessories cannot be returned.

Return connection

This concerns the connection on the radiator through which the hot water leaves the radiator and passes along the return line to the heat generator.

Safety

See "Statutory Accident Insurer".

Scope of delivery

The scope of delivery for the standard version of a radiator can be found in the respective product description.

Seal

In the case of sealed connections and plugs, it may be necessary to tighten up the connection and blind plugs depending on the water quality, e.g. in a remote heating connection, after testing the pressure or heating the system for the first time. The sealing materials supplied or used by Zehnder are intended for use in closed heating systems.

Single-tube system

We recommend using single-tube valves with an adjustable bypass or a ballast system (riser), i.e. with an adjustable water volume over the radiator. Essentially, a reduced output of at least 25% must be considered when using single-tube lance valves. Function is often guaranteed only for certain models and up to specific lengths. Maximum lengths and an indication of how the radiators function with various makes of valve is available on request.

Special finish

See "Finish" and "Colours".

Special versions

Product/product family	angled	bevelled	curved	Galva-nised
Zehnder Roda	-	-	-	-

Standard thermal output

The standard thermal output of a radiator is determined in an independent, certified test laboratory according to standard EN 442 at the standard operating temperatures of 75/65/20 °C. The conversion of the thermal output to other system temperatures is done on the basis of the standard thermal output according to EN 12831.

For easy dimensioning, additional outputs for frequently used temperatures are shown alongside the standard thermal output:

- 70/55/20 °C
- 55/45/20 °C

Standard colour/finish

The standard colour for Zehnder radiators is RAL 9016. Exceptions: Zehnder Fare Tech, Zehnder Alura Tech RAL 9010. For more information, see "Painting".

Storage

Zehnder radiators must be stored for the long-term or temporarily in dry and chemical-free rooms.

Structural finish

See "Finish".

Surface protection

We recommend that installation areas affected by damp or chemicals are only fitted with radiators that are galvanised and then given a powder coating. A polyzinc coating with subsequent powder-coating increases the corrosion protection of the radiator, depending on the surface geometry. Possible applications are available on request. (see also Galvanising)

System temperatures

These are the temperatures at which the hot water heating system is operated (flow, return and room temperature).

Technical specifications

The dimensions indicated in the documentation are correct at the time of printing. We reserve the right to make amendments that improve the product.

Technoline

See "Colours"

Test pressure

Each radiator is checked for leaks by subjecting it to 1,3 times its rated maximum operating pressure before delivery. For orders that do not indicate the required operating pressure, the radiator will be delivered with the operating pressure of the standard version.

Keyword list

Thermal output Φ

The thermal output of a radiator model is given by the standard characteristic curve:

$$\Phi = K_M \cdot \Delta T^n$$



EN 442 defines the test procedure and the measurement method in identically arranged test laboratories. A single, pan-European measuring method therefore replaces the previous measurements that varied from country to country.

The output given under the following conditions in accordance with EN 442 applies as the nominal heat output Φ_s :

Flow temperature	$t_1 = 75\text{ °C}$
Return temperature	$t_2 = 65\text{ °C}$
Mean water temperature	$t_m = 70\text{ °C}$
Room temperature	$t_r = 20\text{ °C}$
Excess temperature ($t_m - t_r$)	$\Delta T = 50\text{ K}$

Thermal outputs Φ (different ΔT than 50 K)

For all excess temperatures other than $\Delta T_n = 50\text{ K}$, the thermal output is calculated in accordance with the formulae

$$\Phi = \Phi_s \times f_1 \text{ or } \Phi = \Phi_s \times \left(\frac{\Delta T}{\Delta T_n} \right)^n$$

ΔT is to be calculated logarithmically as follows:

$$\Delta T = \frac{(t_1 - t_r) - (t_2 - t_r)}{\ln \left(\frac{t_1 - t_r}{t_2 - t_r} \right)} = \frac{t_1 - t_2}{\ln \left(\frac{t_1 - t_r}{t_2 - t_r} \right)}$$

The excess temperature ΔT_n under standard conditions (75/65/20 °C) is, as a logarithmic excess temperature

$$\Delta T_n = \frac{75 - 65}{\ln \left(\frac{75 - 20}{65 - 20} \right)} = 49,83\text{ K}$$

The entire calculation process can be avoided by using the tables on page 58/59.

These can be used to directly read off the f_1 factor for known system temperatures (t_1 , t_2 , t_r) and radiator exponents. For other system temperatures, f_1 must be determined mathematically according to the specified formulae.

Examples for the dimensioning of radiators

1. Example of Zehnder Roda:

Model ROH14, length 2500 mm

$\Phi_s = 445\text{ W}$, exponent $n = 1,27$

$t_1 = 70\text{ °C}$, $t_2 = 50\text{ °C}$, $t_r = 22\text{ °C}$

Determine the f_1 factor from the table on page 60/61.

$$\Phi = 445 \times 0,692 = \underline{308\text{ W}}$$

Tolerances

Industry standard tolerances and tolerances based on production technology are subject to change for all indicated dimensions and fall within the tolerances defined in EN 442. The maximum tolerance must be considered during pre-assembly of the pipework or fixing materials. We reserve the right to make technical amendments during the validity of the documentation as part of product improvement.

VDI 6036

Application of the directive VDI 6036 assists all participants in the process to make a comprehensive and comparable assessment of the installation situation. As an accepted rule of technology, this directive and the resulting assessment can also be drawn on for regulation purposes in the event of damages. Directive VDI 6036 classifies applications for radiator fastenings into various requirements classes with different loads. Additional loads for various intensities of misuse can be added to the net weight and water content of the radiator as required. Zehnder issues standard assignment recommendations for requirements class 2, and for stable wall constructions (e.g. concrete) for selected fixing pieces - unless otherwise marked. Assignment recommendations for requirements class 3 and for special custom applications (requirements class 4) on request.

Example applications from VDI 6036:

Requirements class 2 (normal and increased requirements):

owner-occupied homes, rented flats, kindergartens, hospitals, retirement and nursing homes, office buildings, doctors' surgeries/lawyers offices, retail outlets.

Requirements class 3 (high-level requirements):

schools, sports facilities, youth centres, meeting places, railway stations, barracks

Requirements class 4 (very high-level requirements or special burdens):

prisons, psychiatric institutions, special agreements

Wall clearance

This is the distance between the wall and the back of the radiator. For more information, see "Reduced output".

Warranty

The warranty period shall be sixty (60) months from date of delivery to Buyer. Excluded are electrical radiators, electrical and electronic components. The warranty period for these products is twenty-four (24) months.

Water quality

Operating conditions and water quality according to VDI 2035 must be maintained.

Claims under guarantee will be rejected if substances (e.g. chemicals, antifreeze, etc.) are added to the heating water which have an aggressive effect on the sealing material. In case of non compliance, no liability can be accepted in accordance with point 8 of our "General Sales and Delivery Conditions" for sealing material, nor for any resulting defects and consequences. Claims under guarantee in accordance with point 8 of our "General Sales and Delivery Conditions" will also be rendered invalid in case of:

- Operation with steam,
- Periodical or long-term draining of the system,
- Excessive sludge in the radiators and
- Occasional or constant seepage of oxygen into the system.

Wetrooms

See "Surface protection"

Keyword list

Legend

Icon	Unit	Description
H	mm	Height
L	mm	Length
T	mm	Depth
H Lam.	mm	Height of fins
N	mm	Boss spacing
A	m ²	Surface
V	dm ³	Water content
M	kg	Empty weight
N _s	-	Number of elements
t ₁	°C	Flow temperature
t ₂	°C	Return temperature
t _r	°C	Room air temperature
t _m	°C	Mean water temperature (t ₁ +t ₂)/2
ΔT	K	Excess temperature t _m - t _r
Φ	W=(J/s)	Thermal output
Φ _s	W	Nominal heat output
Φ _L	W	Nominal heat output of the module
C _p	J/(kg K)	Specific heat capacity
n	-	Radiator indicator, exponent
S _k	%	Proportion of radiation
C _K	-	Conversion factor to Φ _s
q _m	kg/h/(kg/s)	Water flow
q _{ms}	kg/h/(kg/s)	Nominal flow rate
v	m/s	Velocity
Δp	kPa	Pressure loss, pressure drop
ζ	-	Resistance coefficient
ln	-	Natural logarithm

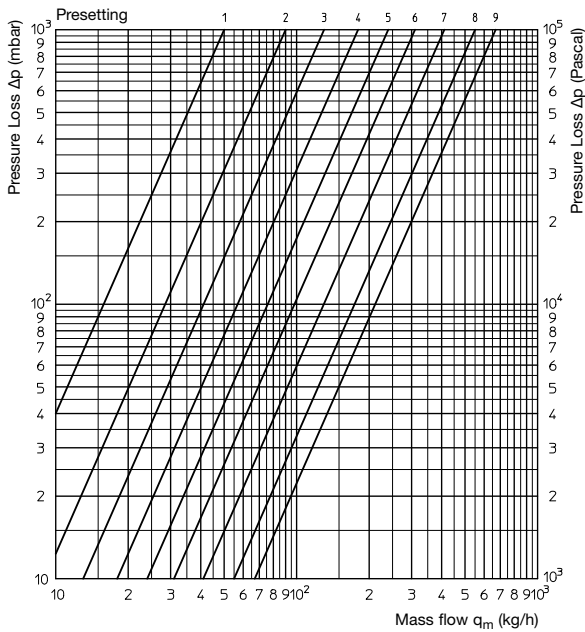
Physical unit

°C	Degrees, Celsius
K	Kelvin, unit for temperature difference
m	Metres
mm	Millimetres
m/s	Metres/second, flow rate
Pa	Pascal, 1 Pa = 0,102 mmWS
mmWS	mm water column
W	Watt, unit of power 1 W = 0,6 kilocalories/hour old unit of power, 1 kcal/h = 1,163 W
c	Specific heat capacity of water = 1 kcal/kg K = 4,187 kJ/kg K
kJ	Kilojoule, 1 kJ = 0,239 kcal

Pressure loss diagram valves



Thermostatic valve (presetting Oventrop) AV9 for Roda



Presetting	1	2	3	4	5	6	7	8	9
kv-value	0,05	0,09	0,14	0,20	0,26	0,32	0,43	0,57	0,67

Conversion table, f_1 factor

t_2			75					70					65					60					55				
t_1	t_r	n	1,20	1,25	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40	1,20	1,27	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40
90	10		1,562	1,591	1,621	1,651	1,682	1,491	1,516	1,542	1,568	1,594	1,419	1,449	1,462	1,483	1,505	1,346	1,363	1,380	1,397	1,414	1,270	1,283	1,296	1,309	1,322
	15		1,432	1,454	1,476	1,498	1,521	1,363	1,380	1,398	1,416	1,435	1,291	1,311	1,319	1,333	1,347	1,218	1,228	1,238	1,248	1,259	1,142	1,149	1,155	1,162	1,168
	18		1,356	1,373	1,390	1,408	1,426	1,286	1,300	1,313	1,327	1,341	1,215	1,229	1,235	1,245	1,255	1,142	1,148	1,155	1,161	1,168	1,066	1,069	1,072	1,075	1,078
	20		1,305	1,319	1,334	1,349	1,364	1,236	1,247	1,258	1,269	1,280	1,165	1,175	1,180	1,187	1,195	1,092	1,096	1,100	1,104	1,108	1,016	1,017	1,017	1,018	1,019
	22		1,254	1,266	1,278	1,290	1,303	1,185	1,194	1,202	1,211	1,220	1,115	1,122	1,125	1,130	1,135	1,042	1,043	1,045	1,047	1,049	0,966	0,966	0,963	0,962	0,960
85	24		1,204	1,214	1,223	1,233	1,242	1,136	1,142	1,148	1,154	1,160	1,065	1,069	1,071	1,073	1,076	0,992	0,992	0,991	0,991	0,991	0,916	0,913	0,909	0,906	0,903
	10		1,501	1,526	1,552	1,579	1,606	1,432	1,454	1,476	1,498	1,521	1,363	1,387	1,398	1,416	1,435	1,291	1,305	1,319	1,333	1,347	1,218	1,228	1,238	1,248	1,259
	15		1,372	1,391	1,409	1,428	1,447	1,305	1,319	1,334	1,349	1,364	1,236	1,251	1,258	1,269	1,280	1,165	1,172	1,180	1,187	1,195	1,092	1,096	1,100	1,104	1,108
	18		1,296	1,311	1,325	1,339	1,354	1,229	1,240	1,251	1,261	1,272	1,160	1,171	1,175	1,182	1,190	1,090	1,094	1,098	1,102	1,105	1,017	1,017	1,018	1,019	1,020
	20		1,246	1,258	1,269	1,281	1,293	1,179	1,187	1,196	1,204	1,212	1,111	1,118	1,121	1,125	1,130	1,040	1,042	1,044	1,045	1,047	0,967	0,966	0,964	0,963	0,962
80	22		1,196	1,205	1,214	1,223	1,233	1,130	1,135	1,141	1,147	1,153	1,061	1,065	1,067	1,069	1,072	0,991	0,991	0,990	0,990	0,989	0,918	0,915	0,911	0,908	0,905
	24		1,147	1,153	1,160	1,166	1,173	1,080	1,084	1,087	1,091	1,094	1,012	1,013	1,013	1,014	1,014	0,942	0,940	0,937	0,935	0,933	0,869	0,864	0,859	0,854	0,849
	10		1,439	1,461	1,483	1,505	1,528	1,372	1,391	1,409	1,428	1,447	1,305	1,325	1,334	1,349	1,364	1,236	1,247	1,258	1,269	1,280	1,165	1,172	1,180	1,187	1,195
	15		1,312	1,326	1,342	1,357	1,372	1,246	1,258	1,269	1,281	1,293	1,179	1,191	1,196	1,204	1,212	1,111	1,116	1,121	1,125	1,130	1,040	1,042	1,044	1,045	1,047
	18		1,236	1,247	1,258	1,270	1,281	1,171	1,179	1,187	1,195	1,203	1,105	1,111	1,114	1,119	1,124	1,037	1,038	1,040	1,041	1,043	0,966	0,965	0,964	0,962	0,961
75	20		1,187	1,195	1,204	1,212	1,221	1,122	1,127	1,133	1,138	1,144	1,056	1,059	1,061	1,063	1,066	0,988	0,987	0,987	0,986	0,986	0,918	0,914	0,911	0,908	0,904
	22		1,137	1,143	1,149	1,156	1,162	1,073	1,076	1,079	1,082	1,086	1,007	1,008	1,008	1,008	1,008	0,939	0,937	0,934	0,932	0,930	0,869	0,864	0,859	0,854	0,849
	24		1,088	1,092	1,096	1,100	1,103	1,024	1,025	1,026	1,027	1,028	0,959	0,956	0,955	0,954	0,952	0,891	0,887	0,883	0,878	0,874	0,821	0,814	0,808	0,801	0,794
	10							1,312	1,326	1,342	1,357	1,372	1,246	1,262	1,269	1,281	1,293	1,179	1,187	1,196	1,204	1,212	1,111	1,116	1,121	1,125	1,130
	15							1,187	1,195	1,204	1,212	1,221	1,122	1,130	1,133	1,138	1,144	1,056	1,058	1,061	1,063	1,066	0,988	0,987	0,987	0,986	0,985
70	18							1,113	1,118	1,122	1,127	1,133	1,049	1,051	1,053	1,055	1,057	0,983	0,982	0,981	0,981	0,980	0,915	0,912	0,908	0,905	0,902
	20							1,064	1,066	1,069	1,072	1,075	1,000	1,000	1,000	1,000	1,000	0,935	0,932	0,929	0,927	0,924	0,867	0,862	0,857	0,852	0,847
	22							1,015	1,016	1,016	1,017	1,018	0,952	0,949	0,948	0,946	0,944	0,887	0,882	0,878	0,874	0,869	0,820	0,813	0,806	0,799	0,793
	24							0,967	0,966	0,964	0,963	0,962	0,904	0,899	0,897	0,893	0,889	0,839	0,833	0,827	0,821	0,815	0,772	0,764	0,756	0,748	0,740
	10													1,187	1,198	1,204	1,212	1,221	1,122	1,127	1,133	1,138	1,144	1,056	1,058	1,061	1,063
65	15													1,064	1,068	1,069	1,072	1,075	1,000	1,000	1,000	1,000	1,000	0,935	0,932	0,929	0,924
	18													0,991	0,991	0,990	0,990	0,990	0,928	0,925	0,922	0,919	0,917	0,863	0,858	0,853	0,847
	20													0,943	0,940	0,939	0,936	0,934	0,880	0,876	0,871	0,867	0,862	0,816	0,809	0,802	0,795
	22													0,896	0,890	0,887	0,883	0,879	0,833	0,827	0,821	0,815	0,808	0,769	0,761	0,752	0,744
	24													0,848	0,840	0,837	0,831	0,826	0,787	0,779	0,771	0,763	0,756	0,723	0,713	0,703	0,694
60	10																		1,064	1,066	1,069	1,072	1,075	1,000	1,000	1,000	1,000
	15																		0,943	0,941	0,939	0,936	0,934	0,880	0,876	0,871	0,867
	18																		0,872	0,867	0,862	0,857	0,852	0,810	0,803	0,796	0,789
	20																		0,825	0,818	0,812	0,805	0,799	0,763	0,755	0,746	0,738
	22																		0,779	0,770	0,762	0,755	0,747	0,717	0,707	0,698	0,688
55	24																		0,733	0,723	0,714	0,705	0,696	0,672	0,661	0,650	0,639
	10																							0,943	0,941	0,939	0,936
	15																							0,825	0,818	0,812	0,805
	18																							0,755	0,747	0,738	0,729
	20																							0,710	0,700	0,690	0,680
50	22																							0,664	0,653	0,642	0,631
	24																							0,620	0,607	0,595	0,584

Conversion factor f_1 for converting the standard thermal output to EN 442 at 75/65/20 °C for other system temperatures: $\Phi = \Phi_s \cdot f_1$

$$f_1 = \left[\frac{(t_1 - t_2)}{\ln \left(\frac{t_1 - t_r}{t_2 - t_r} \right) \cdot 49,83 \text{ K}} \right]^n$$

The radiator exponent depends on the model and type of radiator and can therefore be found in the table containing the technical specifications for the respective radiator. For exponents other than those given, the correction factor can be interpolated or precisely calculated according to the above formulae. An exponent of 1,3 can be used for the approximate calculation.

System temperatures not shown must be mathematically determined using the formulae given, or can be made available on request.

For more information about thermal outputs, see keyword list.

Legend

Icon	Unit	Description
t_1	°C	Flow temperature
t_2	°C	Return temperature
t_r	°C	Room air temperature
Φ	W = (J / s)	Thermal output
Φ_s	W	Nominal heat output
n	-	Radiator indicator, exponent
$\ln$	-	Natural logarithm

Physical unit

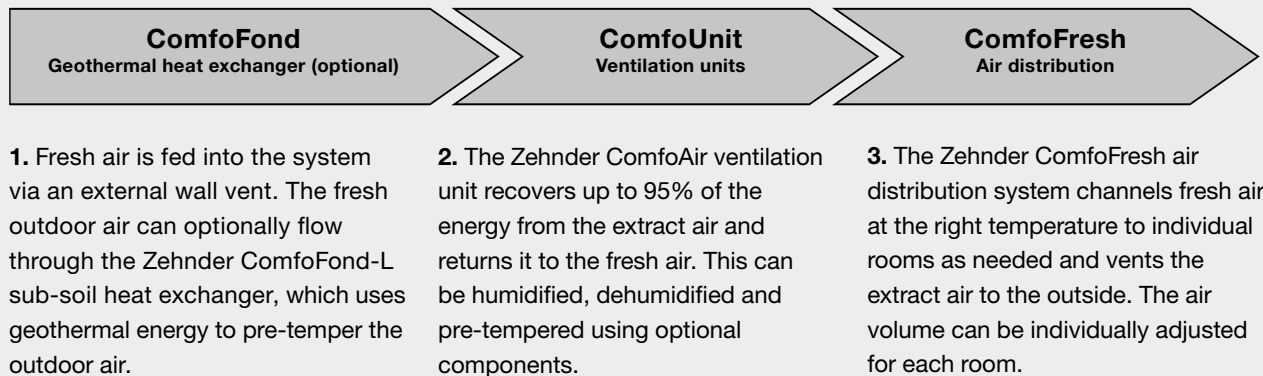
K	Kelvin, unit for temperature difference
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Conversion table, f_1 factor

		t ₂	50										45					40					35					30				
			1,20	1,25	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40	1,20	1,25	1,30	1,35	1,40					
90	10	15	1,193	1,201	1,210	1,219	1,228	1,112	1,117	1,122	1,127	1,132	1,028	1,029	1,030	1,031	1,032	0,939	0,937	0,934	0,932	0,929	0,844	0,839	0,833	0,827	0,821					
	15	18	1,064	1,067	1,070	1,073	1,075	0,983	0,982	0,981	0,981	0,980	0,897	0,893	0,889	0,885	0,881	0,805	0,798	0,791	0,784	0,777	0,706	0,696	0,686	0,676	0,666					
	18	20	0,988	0,987	0,987	0,986	0,986	0,906	0,902	0,898	0,894	0,891	0,819	0,812	0,805	0,798	0,792	0,725	0,715	0,706	0,696	0,687	0,621	0,608	0,596	0,585	0,573					
	20	22	0,937	0,935	0,932	0,930	0,927	0,854	0,849	0,843	0,838	0,832	0,766	0,758	0,749	0,741	0,733	0,670	0,659	0,648	0,638	0,627	0,562	0,549	0,536	0,523	0,511					
	22	24	0,887	0,882	0,878	0,874	0,869	0,803	0,796	0,789	0,781	0,774	0,714	0,704	0,694	0,684	0,675	0,615	0,603	0,591	0,579	0,567	0,502	0,487	0,473	0,460	0,447					
85	24	10	0,836	0,830	0,824	0,818	0,812	0,752	0,743	0,734	0,726	0,717	0,661	0,650	0,638	0,628	0,617	0,559	0,546	0,533	0,520	0,507	0,438	0,423	0,408	0,395	0,381					
	15	18	1,142	1,149	1,155	1,162	1,168	1,064	1,067	1,070	1,073	1,075	0,983	0,982	0,981	0,981	0,980	0,897	0,893	0,889	0,885	0,881	0,805	0,798	0,791	0,784	0,777					
	18	20	1,016	1,017	1,017	1,018	1,019	0,937	0,935	0,932	0,930	0,927	0,854	0,849	0,843	0,838	0,832	0,766	0,758	0,749	0,741	0,733	0,670	0,659	0,648	0,638	0,627					
	20	22	0,941	0,939	0,936	0,934	0,931	0,862	0,856	0,851	0,846	0,840	0,778	0,770	0,761	0,754	0,746	0,687	0,677	0,666	0,656	0,646	0,587	0,574	0,562	0,550	0,537					
	22	24	0,891	0,887	0,883	0,878	0,874	0,811	0,804	0,797	0,790	0,784	0,726	0,717	0,707	0,698	0,689	0,634	0,622	0,611	0,599	0,588	0,531	0,517	0,503	0,490	0,477					
80	24	10	0,842	0,836	0,830	0,824	0,818	0,761	0,753	0,744	0,736	0,727	0,675	0,664	0,653	0,643	0,632	0,581	0,568	0,555	0,543	0,530	0,472	0,457	0,443	0,430	0,416					
	15	18	0,792	0,785	0,777	0,770	0,762	0,711	0,701	0,691	0,682	0,672	0,624	0,612	0,600	0,588	0,577	0,526	0,512	0,499	0,486	0,473	0,410	0,395	0,381	0,367	0,354					
	18	20	1,092	1,096	1,100	1,104	1,108	1,016	1,017	1,017	1,018	1,019	0,937	0,935	0,932	0,930	0,927	0,854	0,849	0,843	0,838	0,832	0,766	0,758	0,749	0,741	0,733					
	20	22	0,967	0,966	0,964	0,963	0,962	0,891	0,887	0,883	0,878	0,874	0,811	0,804	0,797	0,790	0,784	0,726	0,717	0,707	0,698	0,689	0,634	0,622	0,611	0,599	0,588					
	22	24	0,893	0,889	0,885	0,881	0,877	0,817	0,810	0,803	0,797	0,790	0,736	0,727	0,718	0,709	0,700	0,649	0,638	0,627	0,615	0,604	0,554	0,540	0,527	0,514	0,502					
75	24	10	0,844	0,839	0,833	0,827	0,821	0,768	0,759	0,751	0,743	0,735	0,686	0,676	0,665	0,655	0,644	0,598	0,585	0,573	0,561	0,549	0,499	0,484	0,471	0,457	0,444					
	15	18	0,796	0,788	0,781	0,773	0,766	0,719	0,709	0,699	0,690	0,680	0,636	0,624	0,613	0,601	0,590	0,546	0,532	0,519	0,506	0,494	0,442	0,427	0,413	0,399	0,386					
	18	20	0,748	0,739	0,730	0,721	0,712	0,670	0,659	0,648	0,637	0,627	0,586	0,573	0,561	0,548	0,536	0,493	0,479	0,465	0,452	0,438	0,383	0,368	0,353	0,340	0,326					
	20	22	1,040	1,042	1,044	1,045	1,047	0,967	0,966	0,964	0,963	0,962	0,891	0,887	0,883	0,878	0,874	0,811	0,804	0,797	0,790	0,784	0,726	0,717	0,707	0,698	0,689					
	22	24	0,918	0,914	0,911	0,908	0,904	0,844	0,839	0,833	0,827	0,821	0,768	0,759	0,751	0,743	0,735	0,686	0,676	0,665	0,655	0,644	0,598	0,585	0,573	0,561	0,549					
70	24	10	0,845	0,839	0,833	0,827	0,822	0,772	0,763	0,755	0,747	0,739	0,694	0,684	0,673	0,663	0,653	0,611	0,599	0,587	0,575	0,563	0,520	0,506	0,492	0,479	0,466					
	15	18	0,797	0,789	0,782	0,775	0,767	0,723	0,714	0,704	0,695	0,685	0,645	0,634	0,622	0,611	0,600	0,561	0,548	0,535	0,522	0,510	0,467	0,452	0,438	0,424	0,411					
	18	20	0,749	0,740	0,732	0,723	0,714	0,676	0,665	0,654	0,643	0,633	0,597	0,584	0,572	0,560	0,548	0,511	0,497	0,483	0,470	0,457	0,412	0,397	0,383	0,369	0,355					
	20	22	0,702	0,692	0,682	0,672	0,662	0,628	0,616	0,604	0,592	0,581	0,548	0,535	0,521	0,508	0,496	0,460	0,445	0,431	0,417	0,404	0,355	0,340	0,326	0,312	0,299					
	22	24	0,656	0,644	0,633	0,622	0,611	0,585	0,572	0,560	0,547	0,535	0,509	0,495	0,482	0,468	0,455	0,426	0,411	0,397	0,383	0,369	0,327	0,312	0,298	0,284	0,272					
65	24	10	0,935	0,932	0,929	0,927	0,924	0,867	0,862	0,857	0,852	0,847	0,797	0,789	0,782	0,775	0,767	0,723	0,714	0,704	0,695	0,685	0,645	0,634	0,622	0,611	0,600					
	15	18	0,816	0,809	0,802	0,795	0,789	0,749	0,740	0,731	0,722	0,713	0,678	0,668	0,657	0,646	0,636	0,604	0,592	0,579	0,567	0,555	0,524	0,510	0,496	0,483	0,470					
	18	20	0,746	0,737	0,728	0,719	0,710	0,679	0,668	0,657	0,647	0,636	0,608	0,596	0,584	0,572	0,560	0,533	0,519	0,506	0,493	0,480	0,450	0,436	0,421	0,408	0,394					
	20	22	0,699	0,689	0,679	0,669	0,659	0,633	0,621	0,609	0,597	0,586	0,562	0,549	0,536	0,523	0,511	0,486	0,472	0,458	0,444	0,431	0,401	0,386	0,372	0,358	0,344					
	22	24	0,654	0,642	0,631	0,620	0,609	0,587	0,574	0,561	0,549	0,537	0,516	0,502	0,488	0,475	0,462	0,439	0,424	0,410	0,396	0,382	0,351	0,336	0,321	0,308	0,295					
60	24	10	0,608	0,596	0,584	0,572	0,560	0,542	0,528	0,515	0,502	0,489	0,470	0,456	0,441	0,428	0,415	0,391	0,376	0,362	0,348	0,335	0,299	0,284	0,270	0,257	0,244					
	15	18	0,880	0,876	0,871	0,867	0,862	0,816	0,809	0,802	0,795	0,789	0,749	0,740	0,731	0,722	0,713	0,678	0,668	0,657	0,646	0,636	0,604	0,592	0,579	0,567	0,555					
	18	20	0,763	0,755	0,746	0,738	0,730	0,699	0,689	0,679	0,669	0,659	0,633	0,621	0,609	0,597	0,586	0,562	0,549	0,536	0,523	0,511	0,486	0,472	0,458	0,444	0,431					
	20	22	0,694	0,684	0,674	0,664	0,654	0,631	0,619	0,607	0,596	0,584	0,564	0,551	0,538	0,525	0,513	0,493	0,479	0,465	0,451	0,438	0,415	0,400	0,386	0,372	0,358					
	22	24	0,649	0,638	0,626	0,615	0,604	0,586	0,573	0,560	0,548	0,536	0,519	0,505	0,492	0,478	0,465	0,447	0,433	0,418	0,405	0,391	0,368	0,353	0,338	0,324	0,311					
55	24	10	0,604	0,592	0,579	0,567	0,556	0,541	0,528	0,514	0,501	0,489	0,474	0,460	0,446	0,432	0,419	0,402	0,387	0,372	0,359	0,345	0,319	0,305	0,290	0,277	0,264					
	15	18	0,560	0,546	0,533	0,521	0,508	0,497	0,483	0,469	0,455	0,442	0,430	0,415	0,401	0,387	0,374	0,356	0,341	0,327	0,313	0,300	0,270	0,256	0,242	0,229	0,217					
	18	20	0,825	0,818	0,812	0,805	0,799	0,763	0,755	0,746	0,738	0,730	0,699	0,689	0,679	0,669	0,659	0,636														

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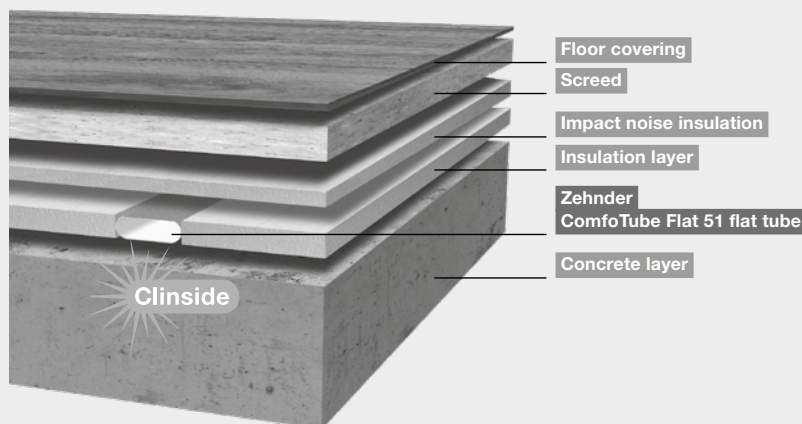
Functional principle



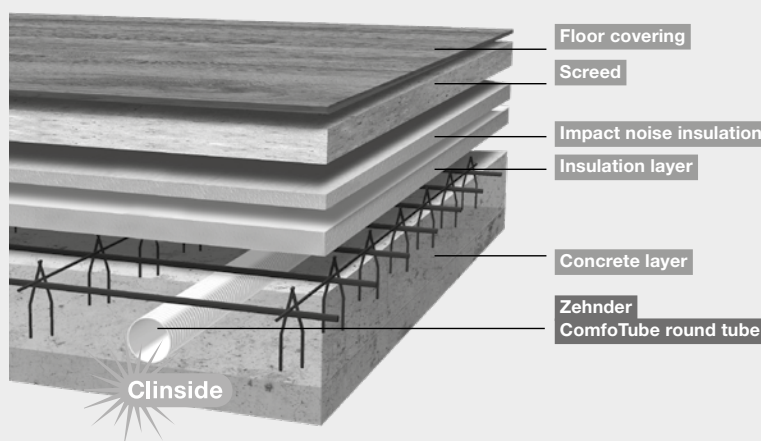
Air distribution system – effective and hygienic

There are two versions of air distribution systems available: Zehnder OnFloor and InFloor. In both cases, the volume of air is regulated as required. They are characterised by the ease with which they can be integrated into the building and their rapid installation. In the case of Zehnder OnFloor, fresh air flows through flat, oval ducts with an internal coating, which are installed in the insulation layer of the unfinished floor. Zehnder InFloor functions on the same principle, only the round tubes are laid in the unfinished floor. Both versions Zehnder InFloor and OnFloor can be combined and thus offer maximum versatility.

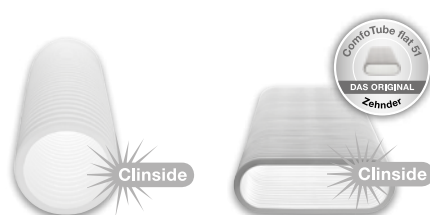
The air distribution system with flat tube for cover, wall and floor (Zehnder OnFloor)



The air distribution system with round tube for cover, wall and floor (Zehnder InFloor)

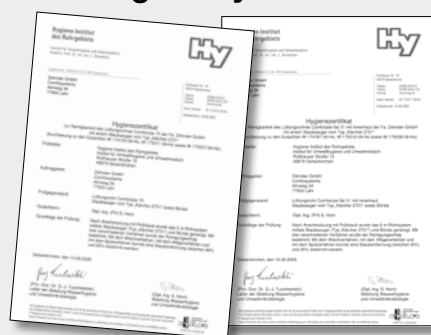


- Easy to install, flexible pipes
- High-quality food grade plastic (HDPE)
- Clinside smooth inner skin for clean tubes
- Centrally and peripherally adjustable airflow rates
- Low pressure loss
- Easy to clean



Clean thanks to Clinside: The smooth inner skin prevents the build-up of dust. Cleaning is easy.

Tested cleaning ability



Certificates issued by a recognised hygiene institute.

Advantages

- Optimum oxygen and draught-free air supply promote your health
- Hypo-allergenic
- Filtering out pollutants
- Retention of the property's value by preventing mould from developing in the building's basic structure
- Energy saving through heat recovery
- Protects against outside noise



Zehnder ComfoAir ventilation units

- For use in demanding residential and commercial buildings
- Up to 95% heat recovery by cross-counterflow heat exchanger
- Fans with extremely efficient EC motors
- 100% automatic bypass
- Option: Electric pre-heater or enthalpy exchanger



Passive
house certified

Zehnder ComfoAir Q350 TR

Zehnder designer grilles

- Elegant and discreet
- For every interior
- Surface-mounted and flush-mounted version
- Available in white or stainless steel
- Suitable for displacement ventilation



Zehnder Roma



Zehnder Pisa



Zehnder Torino



Zehnder Venezia



Zehnder Sans soucis



Zehnder Sacré cœur

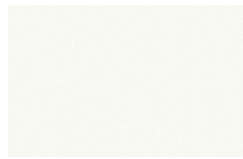
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This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

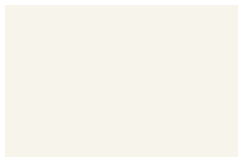
Warm colours

zehnder

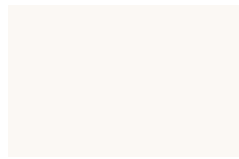
Colour category 1: CORE



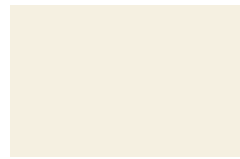
White Quartz ¹⁾
0521



Pure White ²⁾
RAL 9010 / 9010



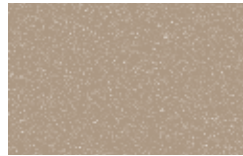
Edelweiss
0067



Cream
RAL 9001 / 9001



Telegrey 4
RAL 7047 / 7247



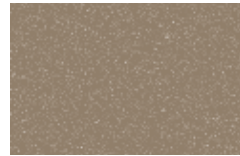
Beige Quartz
0523



Golden Sand
0258



Yellow Grey
RAL 7034 / 7234



Pearl Beige
RAL 1035 / 1235



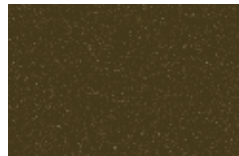
Beach Gold
0272



Concrete Grey
0265



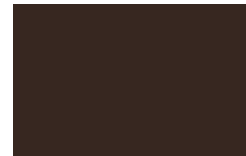
Beige Grey
0267



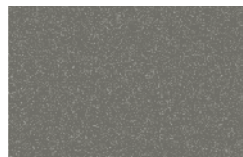
Bronze
0276



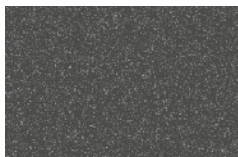
Brown Quartz
0529



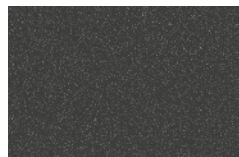
Dark Brown
0270



Grey Aluminium
9007



Anthracite
0346



Umbra Grey
RAL 7022 / 7222

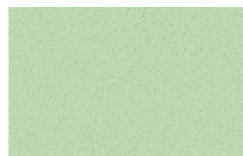


Volcanic
0336



Surcharge for colour category 1: 20 %

Colour category 2: TREND



Pastel Green
RAL 6019 / 6219



Reseda Green
RAL 6011 / 6211



Cement Grey
RAL 7033 / 7233



Olive Green
RAL 6003 / 6203



Terracotta Faded
0299



Terracotta
0292



Ruby Red
RAL 3003 / 3003



Surcharge for colour category 2: 30 %

¹⁾ Unlike to the colour standard (here RAL tone) the Zehnder no. also includes the features matt respectively glossy. Therefore the RAL standard and Zehnder no. differ in many colours. Please note that the prices always relate to the given finishes matt or glossy, deviating finishes will be calculated like colours outside of the colour cart. These colours are finished with a gloss finish; all other colours are matt-finished.

¹⁾ Not for Zehnder Nova, Nova Neo and Excelsior

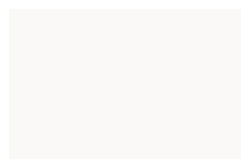
²⁾ Standard colour for Fare Tech & Alura Tech, therefore Traffic White RAL 9016 with surcharge 20 % on category 1

³⁾ Only for Zehnder Charleston and Zehnder Metropolitan

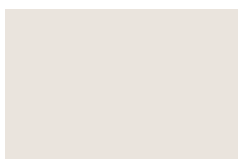
Cool colours

zehnder

Colour category 1: CORE



White Matt
0556



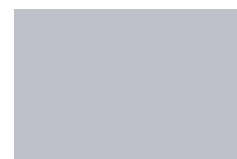
Light Beige
0253



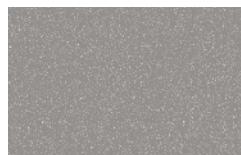
Light Grey
0262



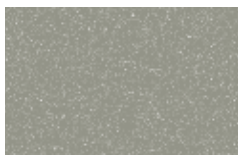
White Aluminium
9006



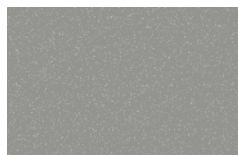
Light Jeans
0264



Titane
0335



Inox Look
0332



Telegrey 2
RAL 7046 / 7246



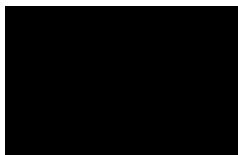
Blue Grey
RAL 7031 / 7231



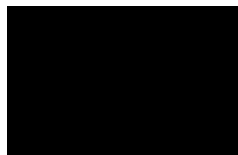
Anthracite Grey
RAL 7016 / 7016



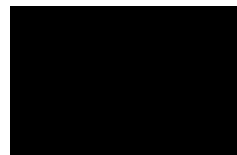
Black Quartz
0550



Black Matt
0557



Traffic Black
RAL 9017 / 9217



Jet Black
RAL 9005 / 9005

Surcharge for colour category 1: 20 %

Colour category 2: TREND



Pastel Blue
RAL 5024 / 5224



Pigeon Blue
RAL 5014 / 5214



Gentian Blue
RAL 5010 / 5210



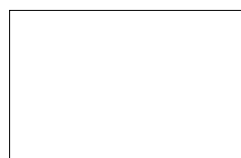
Sapphire Blue
RAL 5003 / 5203



Blue Night
0289

Surcharge for colour category 2: 30 %

STANDARD



Traffic White
RAL 9016 / 9016



Technoline (Clear) ³⁾
0325



Chrome (Surface)
0008



Stainless steel brushed
9517

FINISHES

Some colours/surfaces are only available for selected products. Please also see the notes on the respective product pages. For Special surfaces of the Studio Collection, please see the respective product chapters. Special colours on request. Due to different manufacturing techniques of the original colours, deviations can occur in colour and polish. RAL and NCS are designations from the manufacturer. The respective colour code (ED) is set at the 9th and 10th places in the article no.

Other special finishes in the RAL, RAL-D, NCS-S, Sanitary, DB colour systems are available as required, surcharges on request.

