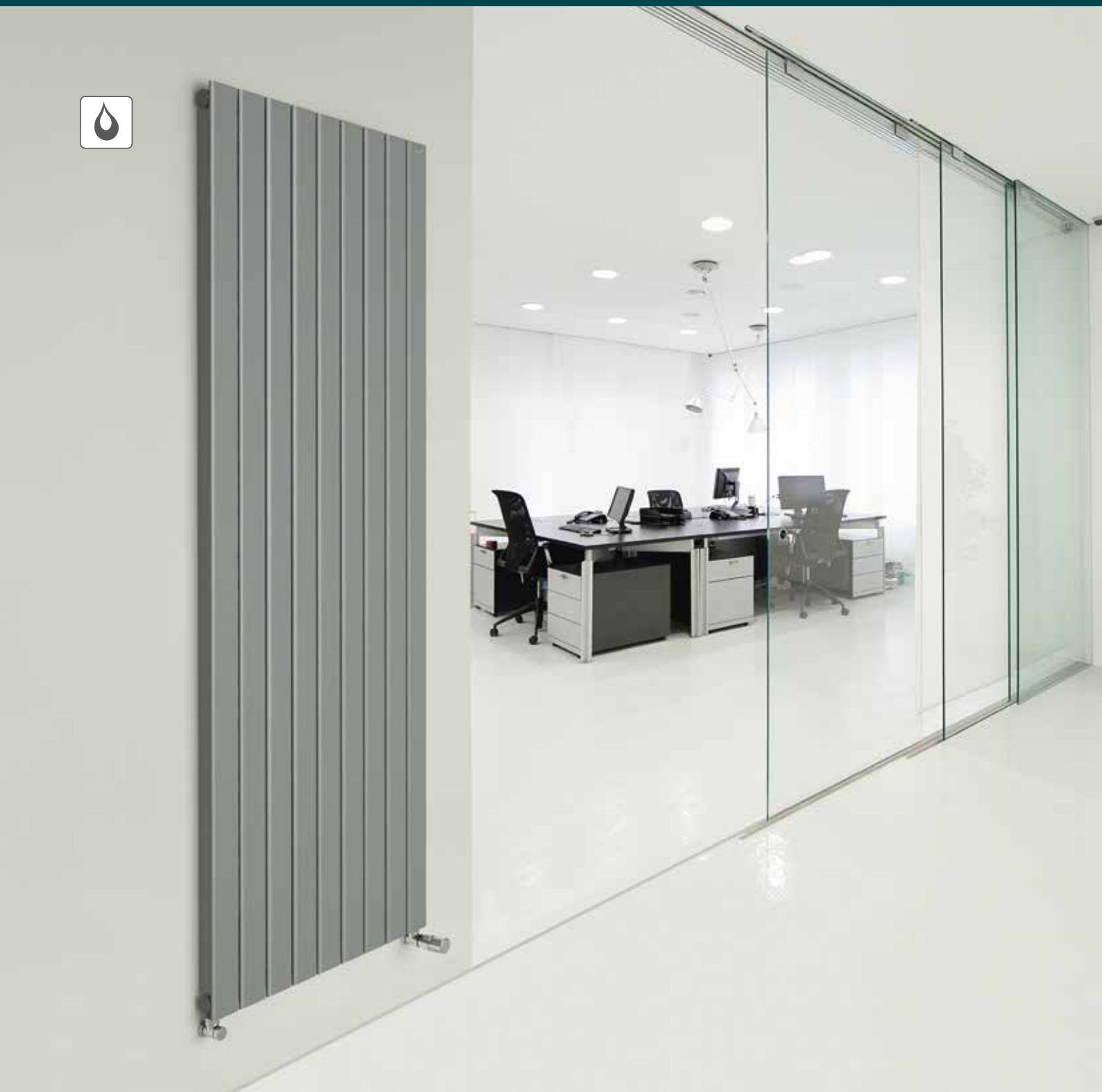
zehnder

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

zehnder

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**

900 PATENTS AND DESIGN RIGHTS THROUGHOUT THE WORLD

AROUND **40,000** TRAINED CUSTOMERS PER YEAR

INDOOR CLIMATE

Decorative radiators
Our individual decorative radiators make every room – wether 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

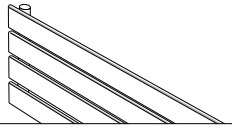
Zehnder Group products are frequently awarded prizes for design and innovative technology.

iF DESIGN AWARD 2020

reddot winner 2020

General Sales and Delivery Conditions:

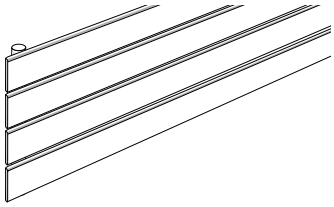
Our General Sales and Delivery Conditions apply. You can find these under “Legal notice” on our homepage at www.international.zehnder-systems.com.



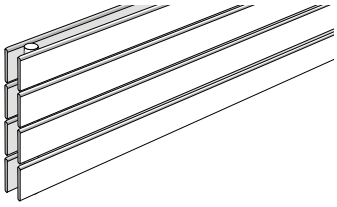
Hot water operation

Zehnder Roda

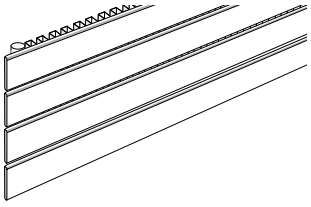
Zehnder Roda Horizontal



ROH



ROHD



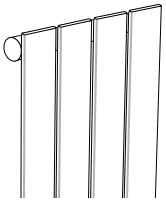
ROHL

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	

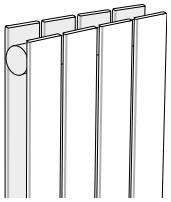
[1] The values specified here are the so-called nominal height; the exact height varies by a few millimetres.

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

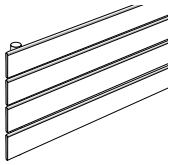
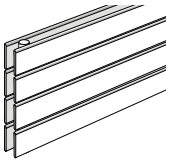
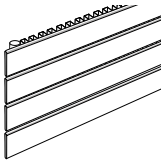
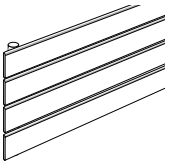
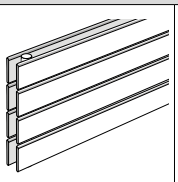
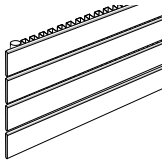
- Various connection options
- Wall brackets included, enclosed in packaging
- Wide range of elegant accessories for a variety of combination options
- Wide range of models supports versatile use
- Short response time means rooms can be heated up rapidly
- High thermal output means large rooms are heated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

Scope of delivery for standard version

- Primed and painted in RAL 9016
- 2 x ½" connetions 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)

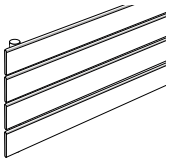
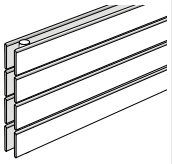
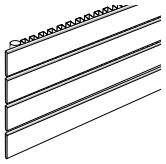
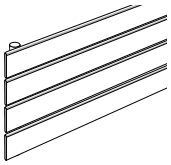
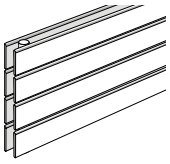
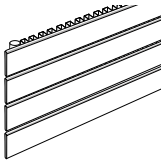
Height	mm	148						222					
													
Model		**ROH14**		**ROHD14**		**ROHL-014/014**		**ROH22**		**ROHD22**		**ROHL-022/022**	
Depth	mm	47		55		60		47		55		60	
Height of fins	mm	-		-		134		-		-		208	
Exponent	n	1,27		1,25		1,14		1,27		1,26		1,26	
Basic price	**€**	**153,37**		**214,12**		**335,62**		**165,53**		**224,75**		**382,69**	
Price/metre	**€**	**74,42**		**142,76**		**74,42**		**85,03**		**148,82**		**88,09**	
Length mm		Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

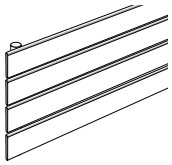
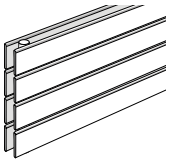
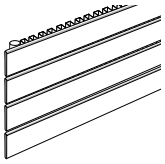
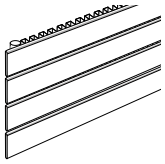
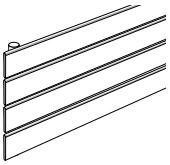
Height	mm	296						370					
													
Model		**ROH30**		**ROHD30**		**ROHL-030/030**		**ROH37**		**ROHD37**		**ROHL-037/030**	
Depth	mm	47		55		60		47		55		60	
Height of fins	mm	-		-		282		-		-		282	
Exponent	n	1,27		1,26		1,26		1,27		1,26		1,27	
Basic price	**€**	**197,43**		**276,37**		**426,73**		**230,83**		**329,54**		**443,44**	
Price/metre	**€**	**94,14**		**176,17**		**97,19**		**103,27**		**203,49**		**97,19**	
Length mm		Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

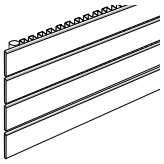
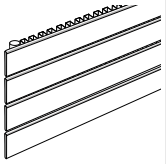
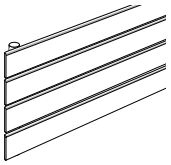
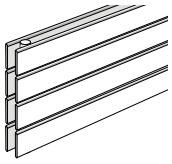
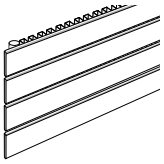
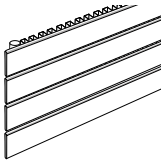
Height	mm	444								518			
													
Model		**ROH44**		**ROHD44**		**ROHL-044/030**		**ROHL-044/044**		**ROH52**		**ROHD52**	
Depth	mm	47		55		60		60		47		55	
Height of fins	mm	-		-		282		410		-		-	
Exponent	n	1,27		1,26		1,29		1,24		1,27		1,26	
Basic price	**€**	**262,72**		**381,17**		**449,52**		**469,23**		**264,25**		**385,73**	
Price/metre	**€**	**112,36**		**230,83**		**97,19**		**97,19**		**132,12**		**259,69**	
Length mm		Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

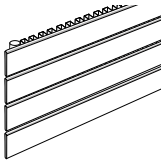
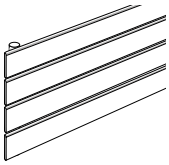
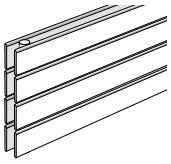
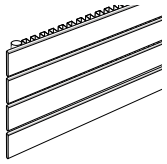
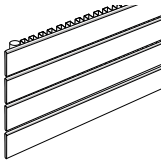
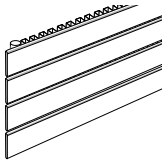
Height	mm	518				592							
													
Model		**ROHL-052/030**		**ROHL-052/044**		**ROH60**		**ROHD60**		**ROHL-060/030**		**ROHL-060/044**	
Depth	mm	60		60		47		55		60		60	
Height of fins	mm	282		410		-		-		282		410	
Exponent	n	1,30		1,24		1,27		1,26		1,31		1,24	
Basic price	**€**	**426,73**		**485,95**		**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 Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

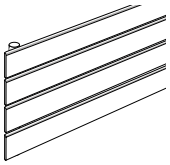
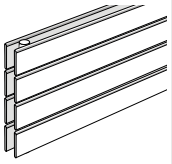
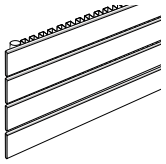
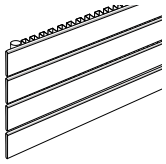
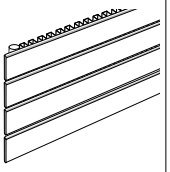
Height	mm	592		666									
													
Model		**ROHL-060/060**		**ROH67**		**ROHD67**		**ROHL-067/030**		**ROHL-067/044**		**ROHL-067/060**	
Depth	mm	60		47		55		60		60		60	
Height of fins	mm	550		-		-		282		410		550	
Exponent	n	1,25		1,27		1,26		1,32		1,24		1,25	
Basic price	**€**	**536,06**		**264,25**		**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 Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

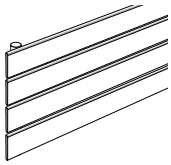
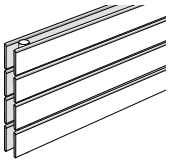
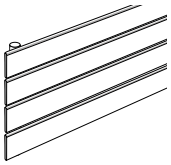
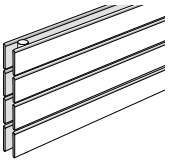
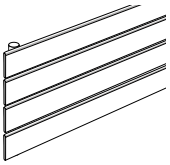
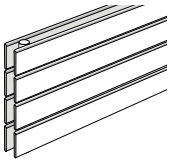
Height	mm	740										
												
Model		**ROH74**		**ROHD74**		**ROHL-074/030**		**ROHL-074/044**		**ROHL-074/060**		
Depth	mm	47		55		60		60		60		
Height of fins	mm	-		-		282		410		550		
Exponent	n	1,27		1,26		1,33		1,25		1,25		
Basic price	**€**	**265,75**		**396,37**		**522,41**		**526,98**		**557,34**		
Price/metre	**€**	**195,89**		**356,88**		**92,63**		**92,63**		**107,81**		
Length		Φ_s	**Price**	Φ_s	**Price**	Φ_s	**Price**	Φ_s	**Price**	Φ_s	**Price**	
mm		Watt	**€**	Watt	**€**	Watt	**€**	Watt	**€**	Watt	**€**	
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**

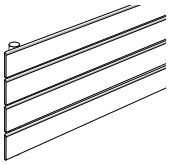
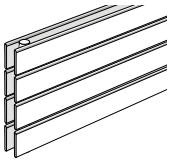
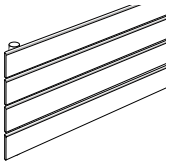
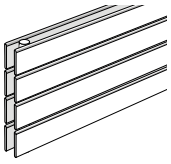
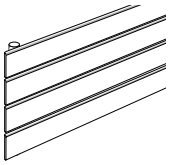
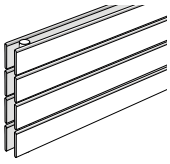
Length mm	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
500	451	**375,86**	704	**595,30**	490	**388,02**	759	**615,04**	529	**400,16**	813	**636,29**
600	541	**397,57**	844	**634,78**	588	**411,86**	910	**658,47**	634	**426,12**	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)

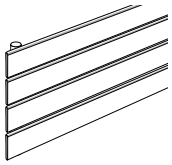
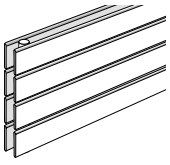
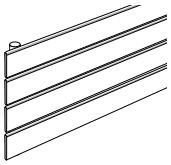
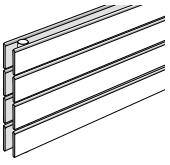
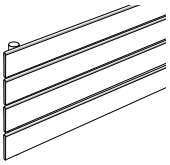
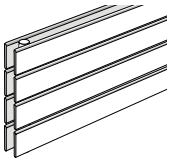
Height	mm	1036				1110				1184			
													
Model		**ROH104**		**ROHD104**		**ROH111**		**ROHD111**		**ROH118**		**ROHD118**	
Depth	mm	47		55		47		55		47		55	
Height of fins	mm	-		-		-		-		-		-	
Exponent	n	1,27		1,26		1,27		1,26		1,27		1,26	
Basic price	**€**	**274,85**		**411,53**		**279,42**		**425,23**		**283,96**		**437,38**	
Price/metre	**€**	**277,90**		**504,16**		**296,13**		**536,06**		**314,34**		**567,96**	
Length mm		Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

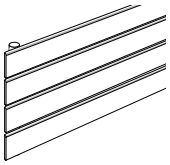
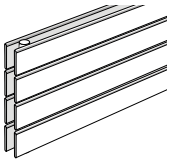
Height	mm	1258				1332				1406			
													
Model		**ROH126**		**ROHD126**		**ROH133**		**ROHD133**		**ROH140**		**ROHD140**	
Depth	mm	47		55		47		55		47		55	
Height of fins	mm	-		-		-		-		-		-	
Exponent	n	1,27		1,26		1,27		1,26		1,27		1,26	
Basic price	**€**	**290,06**		**449,52**		**294,62**		**463,19**		**299,17**		**475,33**	
Price/metre	**€**	**332,58**		**598,32**		**350,80**		**630,23**		**364,48**		**663,66**	
Length mm		Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**	Φ_s Watt	**Price €**
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)

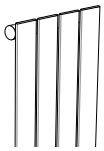
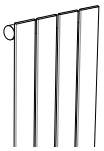
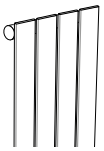
Height	mm	1480											
													
Model		**ROH148**		**ROHD148**									
Depth	mm	47		55									
Height of fins	mm	-		-									
Exponent	n	1,27		1,30									
Basic price	**€**	**303,72**		**487,48**									
Price/metre	**€**	**382,69**		**695,53**									
Length mm		Φ_s Watt	**Price €**	Φ_s Watt	**Price €**								
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)

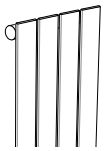
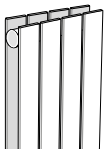
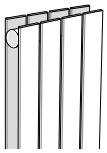
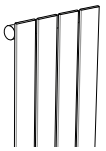
Height	mm	500				600				700			
													
Model		**ROV50**		**ROVD50**		**ROV60**		**ROVD60**		**ROV70**		**ROVD70**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,32		1,29		1,32		1,29		1,32		1,33	
Basic price	**€**	**177,69**		**303,72**		**180,71**		**308,27**		**183,75**		**311,32**	
Price/metre	**€**	**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)

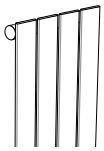
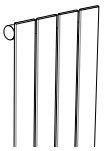
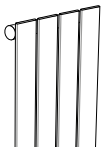
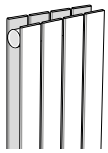
Height	mm	800				900				1000			
													
Model		**ROV80**		**ROVD80**		**ROV90**		**ROVD90**		**ROV100**		**ROVD100**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,32		1,33		1,31		1,33		1,31		1,33	
Basic price	**€**	**188,31**		**315,87**		**191,34**		**320,42**		**194,38**		**323,46**	
Price/metre	**€**	**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)

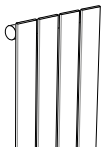
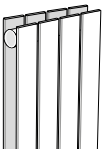
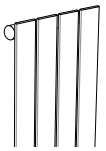
Height	mm	1100				1200				1300			
													
Model		**ROV110**		**ROVD110**		**ROV120**		**ROVD120**		**ROV130**		**ROVD130**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,31		1,32		1,31		1,32		1,31		1,32	
Basic price	**€**	**197,43**		**328,03**		**201,96**		**331,07**		**205,04**		**335,62**	
Price/metre	**€**	**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)

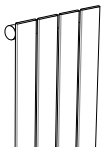
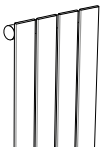
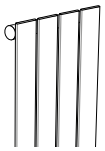
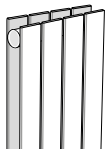
Height	mm	1400				1500				1600			
													
Model		**ROV140**		**ROVD140**		**ROV150**		**ROVD150**		**ROV160**		**ROVD160**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,31		1,32		1,31		1,32		1,31		1,32	
Basic price	**€**	**208,04**		**340,16**		**211,08**		**343,20**		**215,64**		**347,75**	
Price/metre	**€**	**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)

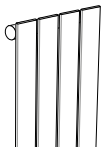
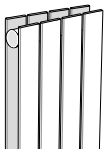
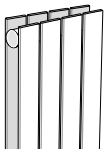
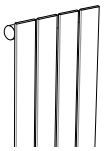
Height	mm	1700				1800				1900			
													
Model		**ROV170**		**ROVD170**		**ROV180**		**ROVD180**		**ROV190**		**ROVD190**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,31		1,32		1,31		1,32		1,30		1,32	
Basic price	**€**	**218,68**		**350,80**		**221,72**		**355,35**		**226,27**		**359,91**	
Price/metre	**€**	**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)

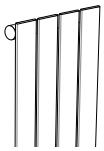
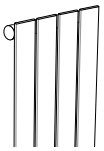
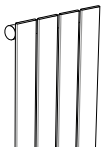
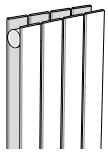
Height	mm	2000				2100				2200			
													
Model		**ROV200**		**ROVD200**		**ROV210**		**ROVD210**		**ROV220**		**ROVD220**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,30		1,32		1,30		1,32		1,30		1,31	
Basic price	**€**	**229,29**		**362,94**		**232,35**		**367,50**		**235,38**		**372,05**	
Price/metre	**€**	**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)

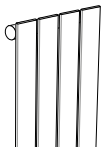
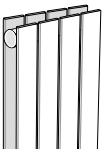
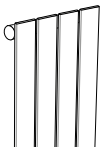
Height	mm	2300				2400				2500			
													
Model		**ROV230**		**ROVD230**		**ROV240**		**ROVD240**		**ROV250**		**ROVD250**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,30		1,31		1,30		1,31		1,30		1,31	
Basic price	**€**	**239,95**		**375,09**		**242,97**		**379,65**		**246,02**		**382,69**	
Price/metre	**€**	**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)

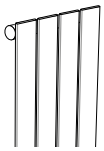
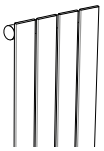
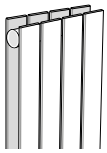
Height	mm	2600				2700				2800			
													
Model		**ROV260**		**ROVD260**		**ROV270**		**ROVD270**		**ROV280**		**ROVD280**	
Depth	mm	47		55		47		55		47		55	
Exponent	n	1,30		1,31		1,30		1,31		1,30		1,31	
Basic price	**€**	**249,04**		**387,26**		**253,61**		**391,82**		**256,64**		**394,85**	
Price/metre	**€**	**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%

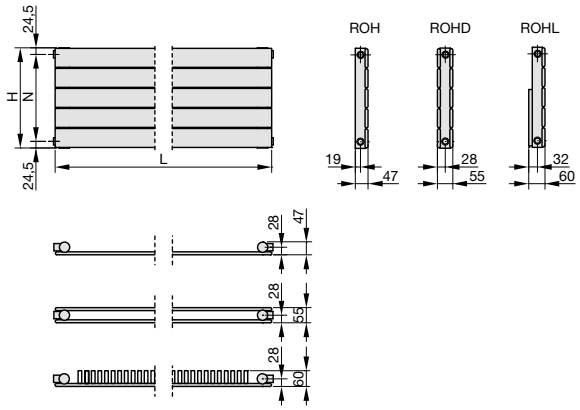
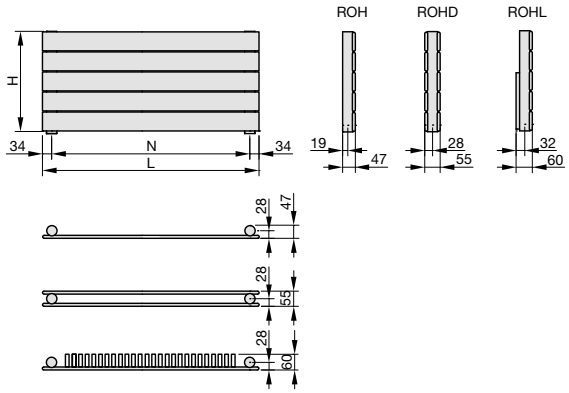
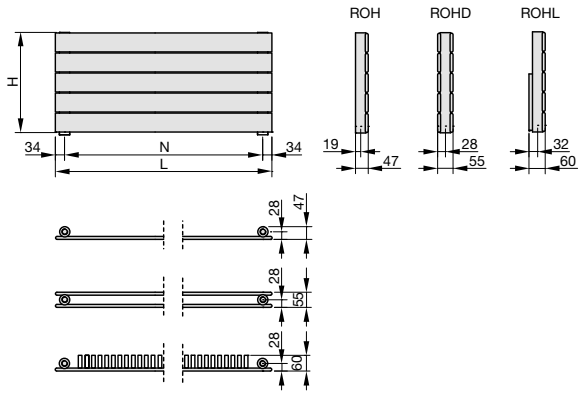
Factor f_1 for converting the thermal output to operating temperatures 70/55/20 °C = 0,80, to 70/50/20 °C = 0,73, to 55/45/20 °C = 0,51

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**

Zehnder Roda

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 1270 * * 7610 1276 * * 7612 1670 * * 7210	**No additional cost**	
2670 * * 6210	**66,06**	
from bottom to bottom 3570 * * 5310	**No additional cost**	
from top to bottom 9500 8300	**No additional cost**	

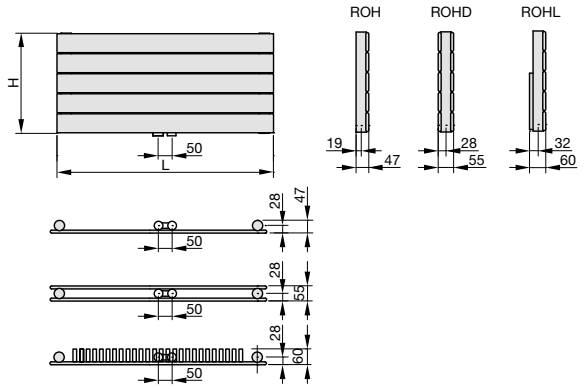
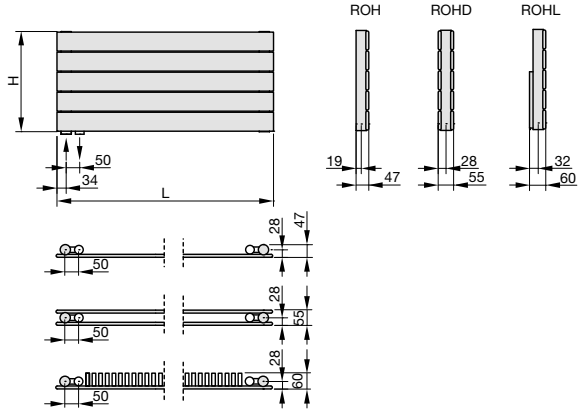
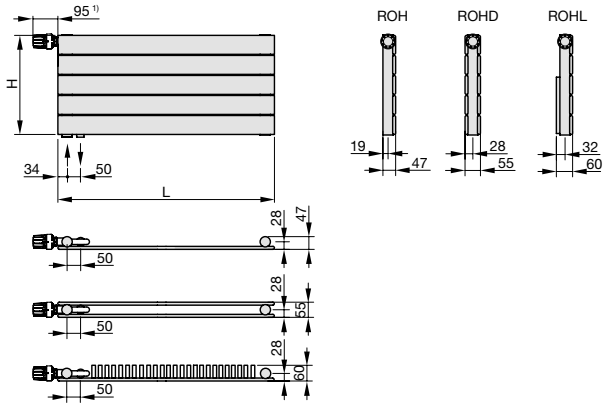
When orders are placed without indication of the connection type, the standard connection 4 x ½" (7612) is delivered.

H = Height
L = Length
N = Boss spacing
L_1 = Connection length (side connection)
* = Venting
• = Internal installations

Dimensions in mm

Zehnder Roda

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 3470 * * 5410	132,12	
from bottom to bottom, at side 50 mm 3370 * * 5510	79,27	
Completto connection with integrated valve		
connection on side 50 mm V013 * * V014	154,15	

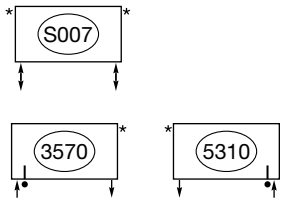
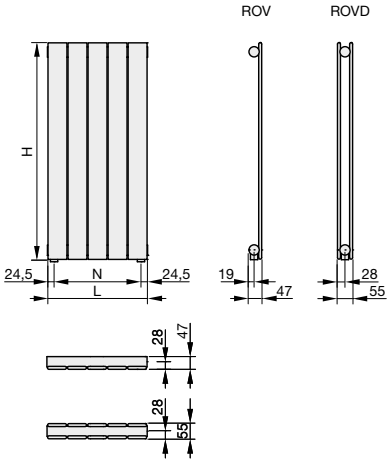
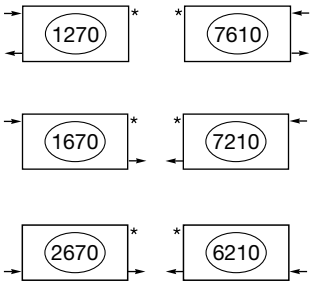
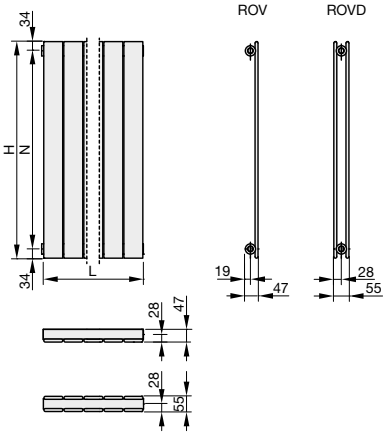
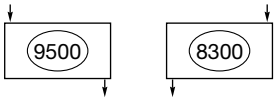
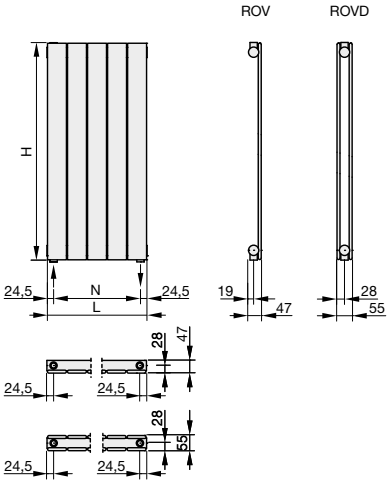
1) Dimension valid for Zehnder thermostat LH2
When orders are placed without indication of the connection type, the standard connection 4 x ½" (7612) is delivered.

H = Height
L = Length
N = Boss spacing
L_1 = Connection length (side connection)
* = Venting
• = Internal installations

Dimensions in mm

Zehnder Roda

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**	

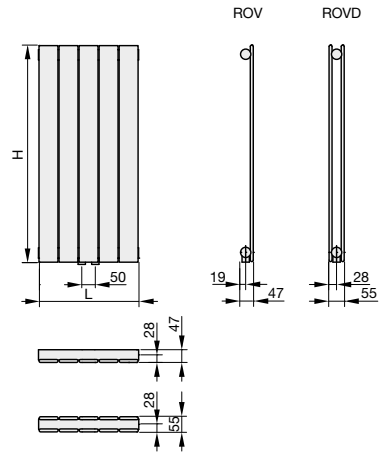
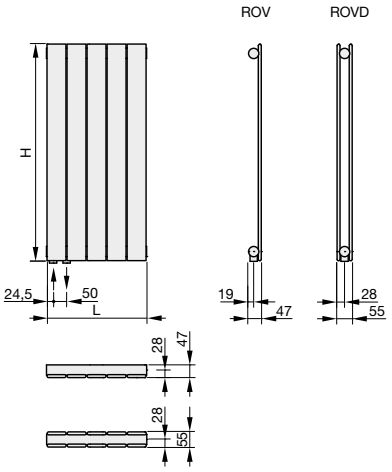
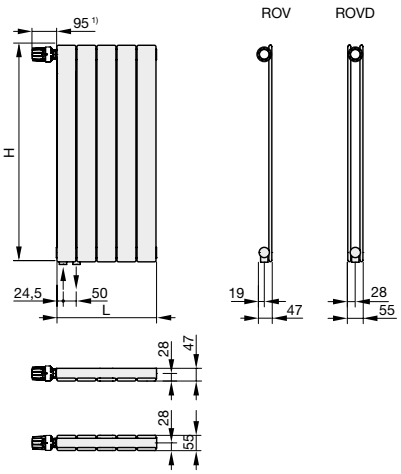
When orders are placed without indication of the connection type, the standard connection S007 is delivered.

H = Height
L = Length
N = Boss spacing
L_1 = Connection length (side connection)
* = Venting
• = Internal installations

Dimensions in mm

Zehnder Roda

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 3470 * * 5410	**79,27**	
from bottom to bottom, at side 50 mm 3370 * * 5510	**79,27**	
Completto connection with integrated valve		
connection on side 50 mm V001 * * V002	**154,15**	

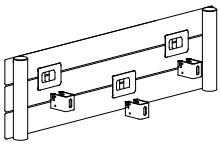
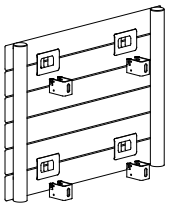
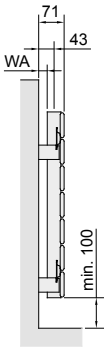
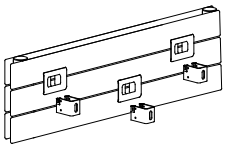
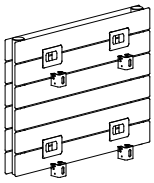
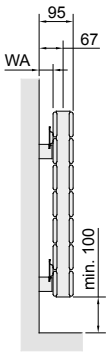
1) Dimension valid for Zehnder thermostat LH2
When orders are placed without indication of the connection type, the standard connection S007 is delivered.

H = Height
L = Length
N = Boss spacing
L_1 = 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.

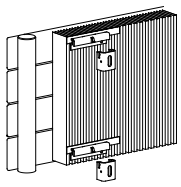
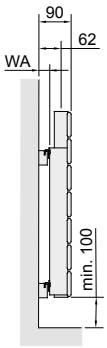
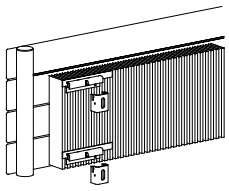
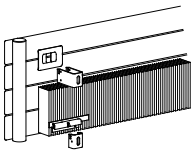
Illustration	Sketch Side view	Model					
		Application	Wall clearance WA mm	Brackets	Set	€/Set White	€/Set Colour
  incl. retaining spring		**Type ROH**					
		Height 148 mm (2 elements)					
		L = 500 - 1900 L = 2000 - 3000	24	2 x C1 3 x C1	1 x 962621 1 x 962559	**32,50** **-**	**-** **48,57**
		Height 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

Zehnder Roda

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	€/Set Colour *
 incl. retaining spring		**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**
 incl. retaining spring		**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**
 incl. retaining spring		**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**

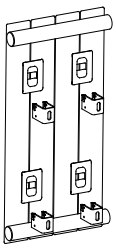
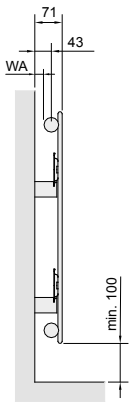
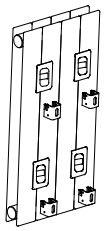
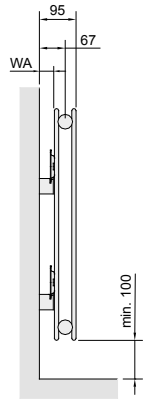
* The article-no. of the set in colour is produced by replacing the digit 1 by the end digit 9.

WA = Distance from wall to back of radiator

Dimensions in mm

Zehnder Roda

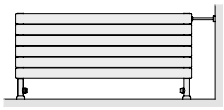
Brackets are included in the scope of delivery, necessary in case of repeat orders.

Illustration	Sketch Side view	Model					
		Application	Wall clearance WA mm	Brackets	Set	€/Set White	€/Set Colour
		Type ROV					
 incl. retaining spring		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**
		Type ROVD					
 incl. retaining spring		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**

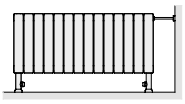
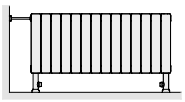
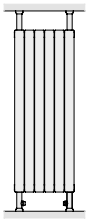
WA = Distance from wall to back of radiator

Dimensions in mm

Zehnder Roda

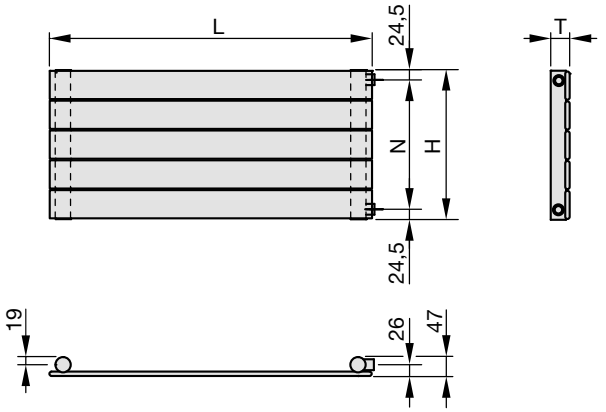
Illustration	Description	Model			
		Application	Allocation	Set	**Price/piece €**
Welded floor support 	Floor supports in colour of radiator. Only up to height of 888 mm without wall fixing. Heights: 100 – 150 mm 150 – 200 mm 200 – 250 mm or special height	**Type ROH, ROHD, ROHL**			
		L = 500 - 2400	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 					

Zehnder Roda

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 	Height-adjustable feet (see above) + 1 lateral fixation		1 x lateral fixation	-	**88,09**
Room divider version left 					
Room divider version to ceiling 	Height-adjustable feet (see above) + 2 lateral fixation		2 x ceiling fixation	-	**88,09**

Zehnder Roda

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

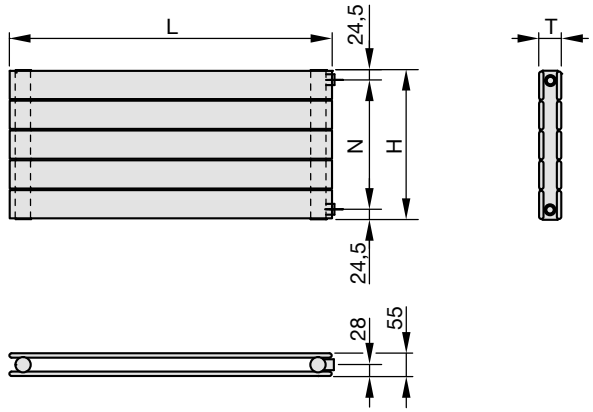
Dimensions in mm

Technical specifications for length 1000 mm (connection 7612)

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s = ΔT 50 K EN442	Φ 70/55/20 °C	Φ 55/45/20 °C
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
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

Zehnder Roda

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

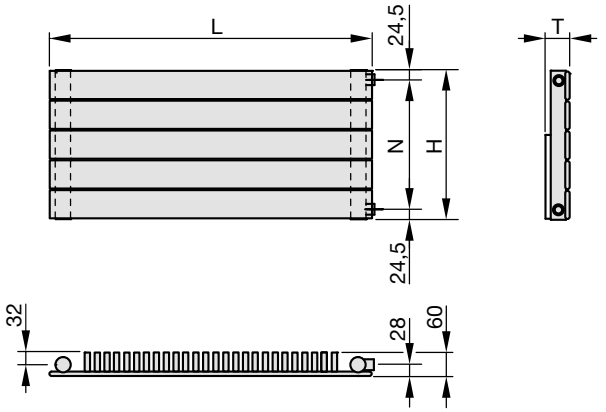
Dimensions in mm

Technical specifications for length 1000 mm (connection 7612)

Model	H	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s = ΔT 50 K EN442	Φ 70/55/20 °C	Φ 55/45/20 °C
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	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

Zehnder Roda

Model ROHL horizontal



H = Height
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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	H Fin	N	T	A	V	M	s_k	q_{ms}	Exp.	Φ_s = ΔT 50 K EN442	Φ 70/55/20 °C	Φ 55/45/20 °C
	mm	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	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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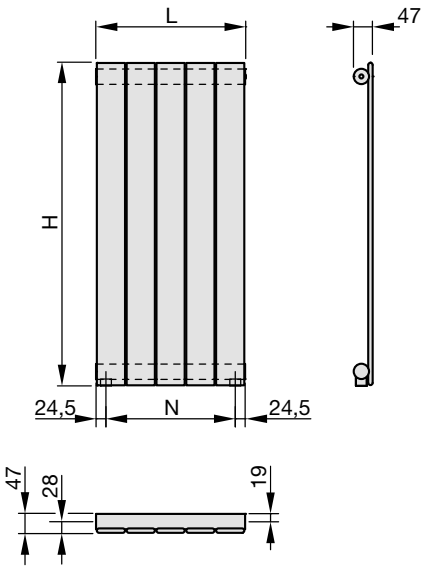
Model ROV vertical



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.	Φ_s = ΔT 50 K EN442	Φ 70/55/20 °C	Φ 55/45/20 °C
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
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

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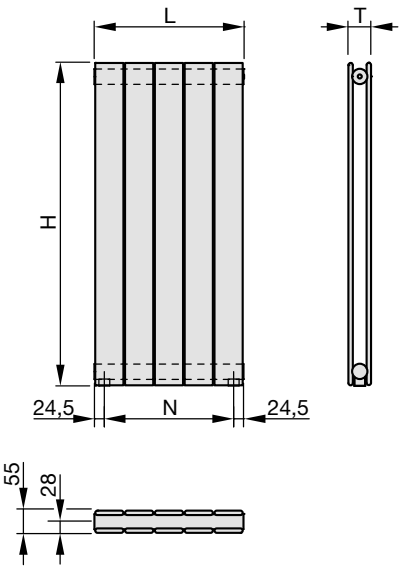
Model ROVD vertical



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.	Φ_s = ΔT 50 K EN442	Φ 70/55/20 °C	Φ 55/45/20 °C
	mm	mm	mm	m^2	dm^3	kg	%	kg/h	n	Watt	Watt	Watt
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

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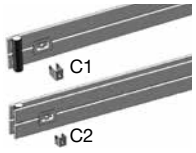
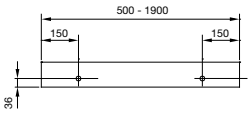
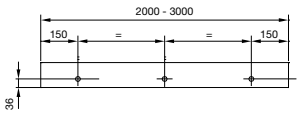
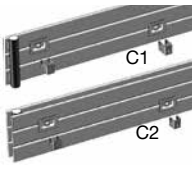
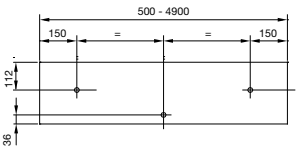
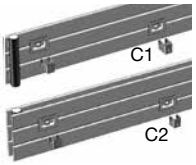
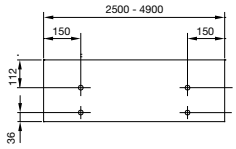
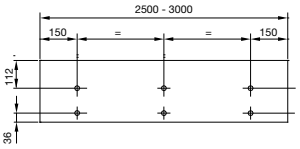
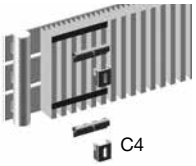
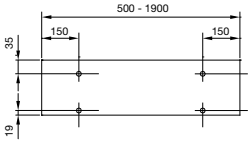
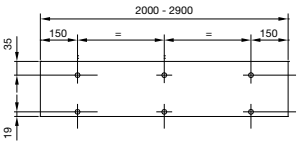
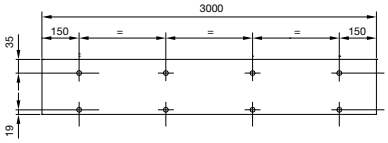
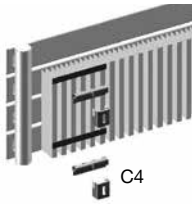
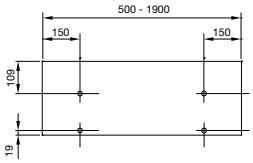
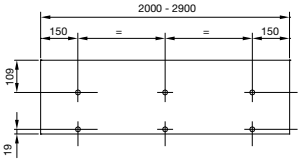
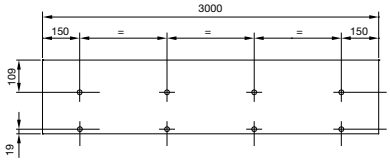
Installation points, horizontal version

H = 148	B	L = 500 - 1900	B	L = 2000 - 3000		
ROH14, ROHD14 	2		3			
H = 222	**B**	**L = 500 - 4900**				
ROH22, ROHD22 	3					
H = 296 - 1480	**B**	**L = 500 - 2400**	**B**	**L = 2500 - 3000**		
ROH30 - ROH148 ROHD30 - ROHD148 	4		6			
H = 148 - 296	**B**	**L = 500 - 1900**	**B**	**L = 2000 - 2900**	**B**	**L = 3000**
ROHL-014/014 ROHL-022/022 ROHL-030/030 	4		6		8	
H = 370	**B**	**L = 500 - 1900**	**B**	**L = 2000 - 2900**	**B**	**L = 3000**
ROHL-037/030 	4		6		8	

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

Dimensions in mm

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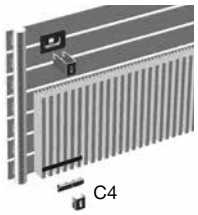
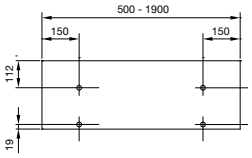
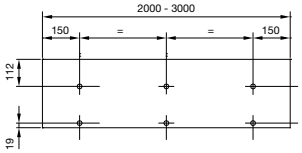
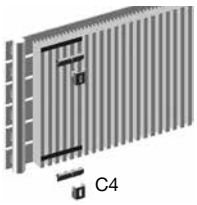
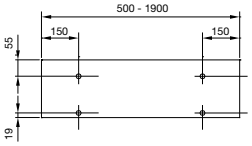
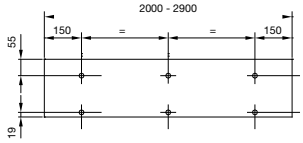
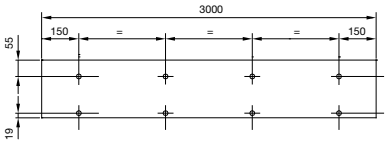
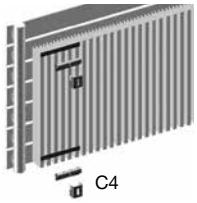
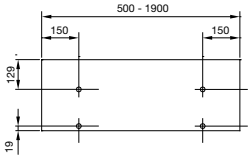
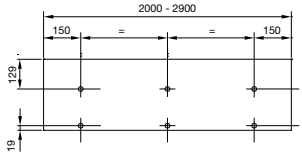
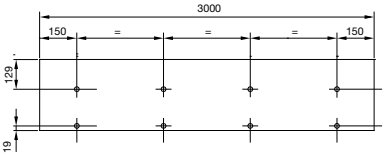
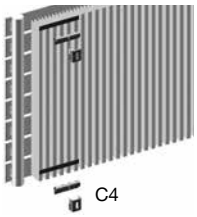
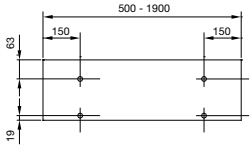
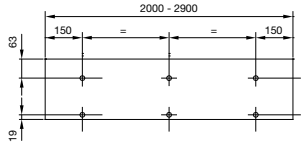
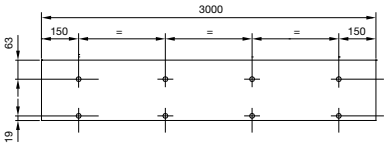
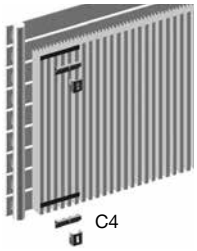
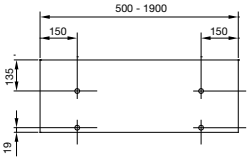
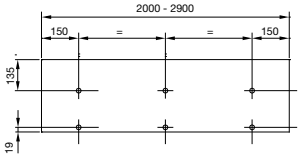
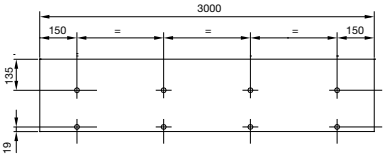
Installation points, horizontal version

H = 440 - 740	B	L = 500 - 1900	B	L = 2000 - 3000		
ROHL044/030, ROHL052/030 ROHL060/030, ROHL060/044 ROHL067/030, ROHL067/044 ROHL074/030, ROHL074/044 ROHL074/060 C7 	4		6			

H = 444	B	L = 500 - 1900	B	L = 2000 - 2900	B	L = 3000
ROHL-044/044 	4		6		8	

H = 518	B	L = 500 - 1900	B	L = 2000 - 2900	B	L = 3000
ROHL-052/044 	4		6		8	

H = 592	B	L = 500 - 1900	B	L = 2000 - 2900	B	L = 3000
ROHL-060/060 	4		6		8	

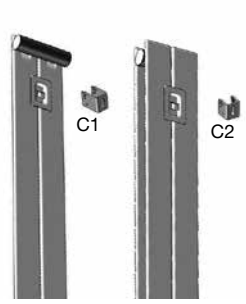
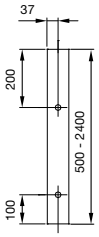
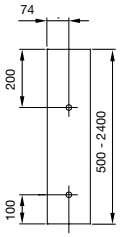
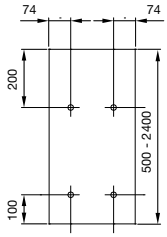
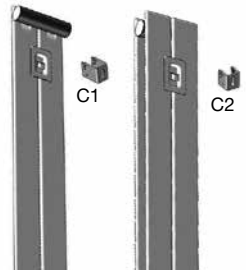
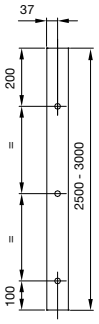
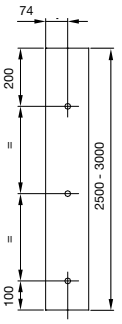
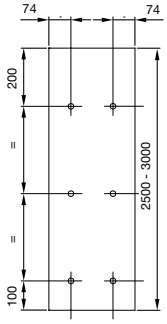
H = 666	B	L = 500 - 1900	B	L = 2000 - 2900	B	L = 3000
ROHL-067/060 	4		6		8	

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

Dimensions in mm

Zehnder Roda

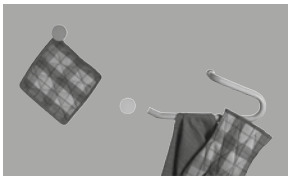
Installation points, vertical version

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 Chrome Special finish	480891 480718 480899	**143,33** **174,56** **185,73**	Zehnder Roda (only ROH and ROV)
Hook set 2 pegs and 1 towel rail		White Special finish	480751 480759	**190,43** **217,71**	Zehnder Roda (only ROH and ROV)

Miscellaneous

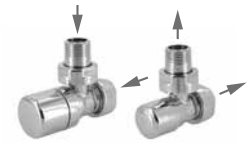
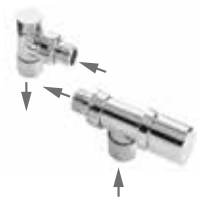
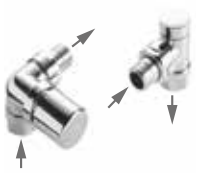
Description		Version	Article number	**Price €**	Application
Lacquer aerosol Original paint, air-drying For improving the surface finish, 150 ml RAL 9001 (Cream White) RAL 9002 (Grey White) RAL 9010 (Pure White) RAL 9016 (Traffic White)		Colour: RAL 9001 RAL 9002 RAL 9010 RAL 9016	 977020 977050 977080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

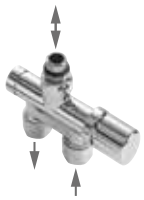
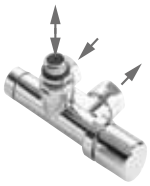
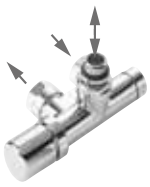
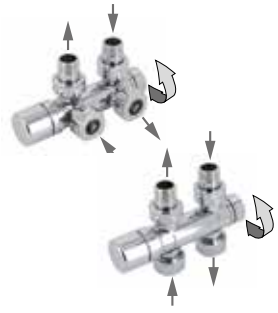
Zehnder Design Line Valve

Description		Version	Article number	**Price €**	Application
Valve set type A Angled flow and lockshield, themostatic 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 themostatic 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 themostatic 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, themostatic 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.

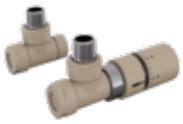
All valves respectively connection fittings are delivered with handwheels as protection caps (thermostatic heads to be ordered separately) and union nuts as transition to the tube (matching adaptors and connection sets are to be ordered separately!) --> see page 51

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

NEW!

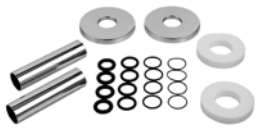
Description		Version	Article nr.	Price €	Application
Zehnder thermostat "Design Line" Thermostat with integrated fluid sensor. Can be restricted and locked to individual reference value of 6,5 - 28 °C, connection for thermostat M 30 x 1,5		Special finish	841279	**73,79**	For all radiators with ½" female 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 Valve set including Design Line thermostat	 838899 839439	 **119,66** **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 Valve set including Design Line thermostat	 839049 839409	 **132,50** **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 Valve set including Design Line thermostat	 839059 839419	 **132,50** **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 Valve set including Design Line thermostat	 839109 839429	 **132,50** **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 Chrome	842001 842008	**24,23** **24,23**	Adaptor for screw fittings with ½" external thread
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		Brass	842080	**7,13**	
Copper Ø 12 mm		Brass	842090	**7,13**	
Copper Ø 14 mm		Brass	842100	**7,13**	
Copper Ø 15 mm		Brass	842110	**7,13**	
Copper Ø 16 mm		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		Chrome	853738	**24,23**	For radiator installation
L = 160 mm		Chrome	853668	**31,33**	
Collar Ø45 mm					
for Ø ½"		White	816241	**2,85**	For existing connections
		Chrome	816248	**7,13**	
for Ø 10 mm		White	816251	**2,85**	
		Chrome	816258	**7,13**	
for Ø 12 mm		White	816261	**2,85**	
		Chrome	816268	**7,13**	
for Ø 14 mm		White	816271	**2,85**	
		Chrome	816278	**7,13**	
for Ø 15 mm		White	816281	**2,85**	
		Chrome	816288	**7,13**	
for Ø 16 mm		White	816291	**2,85**	
		Chrome	816298	**7,13**	
for Ø 18 mm		White	816301	**2,85**	
		Chrome	816308	**7,13**	

Notes

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.

CE

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 ½”. 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 3/8” to ¾” 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 °C
Return temperature	t_2 = 65 °C
Mean water temperature	t_m = 70 °C
Room temperature	t_r = 20 °C
Excess temperature (t_m - t_r)	ΔT = 50 K

Thermal outputs Φ (different ΔT than 50 K)
For all excess temperatures other than ΔT_n = 50 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 f1 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
Φ_s = 445 W, exponent n = 1,27
t_1 = 70 °C, t_2 = 50 °C, t_r = 22 °C
Determine the f_1 factor from the table on page 60/61.

Φ = 445 x 0,692 = 308 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

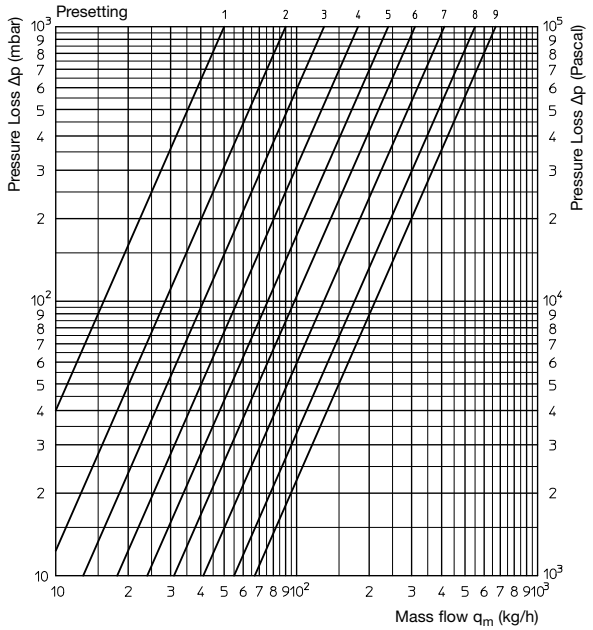
Icon	Unit	Description
H	mm	Height
L	mm	Length
T	mm	Depth
H Lam.	mm	Height of fins
N	mm	Boss spacing
A	m^2	Surface
V	dm^3	Water content
M	kg	Empty weight
N_S	-	Number of elements
t_1	°C	Flow temperature
t_2	°C	Return temperature
t_r	°C	Room air temperature
t_m	°C	Mean water temperature $(t_1+t_2)/2$
ΔT	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_1	t_2 / t_r / n	75					70					65					60					55				
		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	0,964	0,963	0,962	0,960
	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
85	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
	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
80	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
	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
75	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	0,986
	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
70	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	1,066
	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	0,927	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	0,842
	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	0,789
	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	0,736
	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	0,684
65	10																1,064	1,066	1,069	1,072	1,075	1,000	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	0,862
	18																0,872	0,867	0,862	0,857	0,852	0,810	0,803	0,796	0,789	0,782
	20																0,825	0,818	0,812	0,805	0,799	0,763	0,755	0,746	0,738	0,730
	22																0,779	0,770	0,762	0,755	0,747	0,717	0,707	0,698	0,688	0,679
	24																0,733	0,723	0,714	0,705	0,696	0,672	0,661	0,650	0,639	0,629
60	10																					0,943	0,941	0,939	0,936	0,934
	15																					0,825	0,818	0,812	0,805	0,799
	18																					0,755	0,747	0,738	0,729	0,721
	20																					0,710	0,700	0,690	0,680	0,670
	22																					0,664	0,653	0,642	0,631	0,621
	24																					0,620	0,607	0,595	0,584	0,572

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

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

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

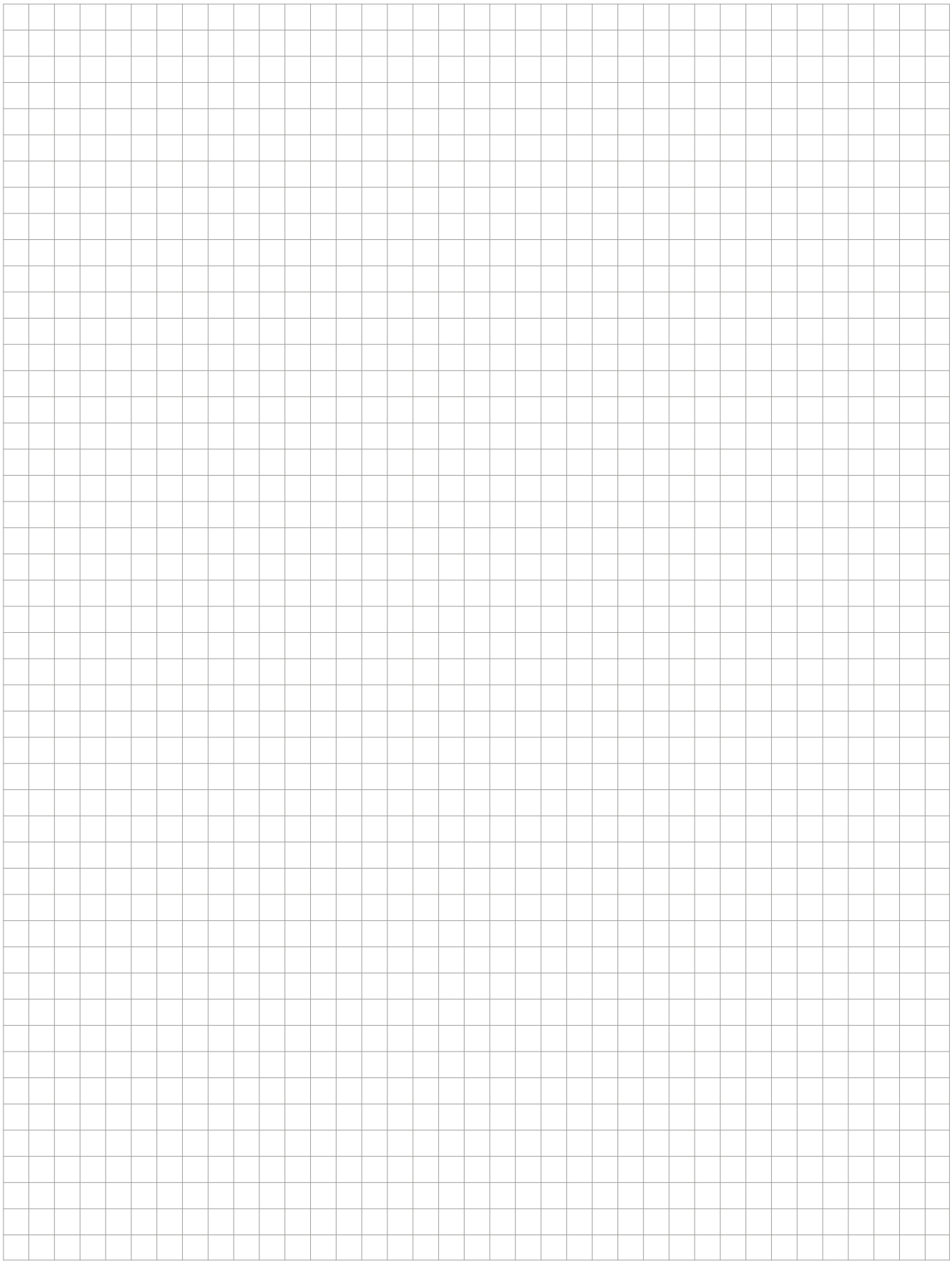
Physical unit

K	Kelvin, unit for temperature difference

Conversion table, f_1 factor

t_1	t_r \ t_2 / n	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	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	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	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	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	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
	24	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
85	10	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
	15	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
	18	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
	20	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
	22	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
	24	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
80	10	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
	15	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
	18	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
	20	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
	22	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
	24	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
75	10	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
	15	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
	18	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
	20	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
	22	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
	24	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
70	10	0,988	0,987	0,987	0,986	0,986	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
	15	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	0,561	0,548	0,535	0,522	0,510
	18	0,796	0,788	0,781	0,773	0,766	0,726	0,716	0,707	0,697	0,688	0,652	0,640	0,629	0,618	0,607	0,572	0,559	0,546	0,534	0,522	0,485	0,471	0,457	0,443	0,430
	20	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	0,434	0,419	0,405	0,391	0,378
	22	0,702	0,692	0,682	0,672	0,662	0,632	0,620	0,608	0,596	0,585	0,557	0,543	0,530	0,517	0,505	0,475	0,460	0,446	0,433	0,420	0,382	0,367	0,352	0,338	0,325
	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	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	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	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	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	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
	24	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
60	10	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
	15	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
	18	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
	20	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
	22	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
	24	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
55	10	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	0,633	0,621	0,609	0,597	0,586	0,562	0,549	0,536	0,523	0,511
	15	0,710	0,700	0,690	0,680	0,670	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
	18	0,642	0,630	0,619	0,607	0,596	0,582	0,569	0,556	0,544	0,532	0,519	0,505	0,491	0,478	0,465	0,452	0,437	0,423	0,409	0,396	0,379	0,364	0,350	0,336	0,322
	20	0,597	0,585	0,572	0,560	0,548	0,538	0,524	0,511	0,498	0,485	0,475	0,461	0,447	0,433	0,420	0,408	0,393	0,379	0,365	0,351	0,334	0,319	0,304	0,291	0,278
	22	0,553	0,540	0,527	0,514	0,501	0,494	0,480	0,466	0,453	0,440	0,432	0,417	0,403	0,389	0,375	0,364	0,349	0,335	0,321	0,308	0,288	0,273	0,259	0,246	0,234
	24	0,510	0,496	0,482	0,469	0,456	0,451	0,437	0,422	0,409	0,395	0,389	0,374	0,359	0,346	0,332	0,320	0,306	0,291	0,278	0,265	0,241	0,227	0,214	0,202	0,190
50	10						0,710	0,700	0,690	0,680	0,670	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
	15						0,597	0,585	0,572	0,560	0,548	0,538	0,524	0,511	0,498	0,485	0,475	0,461	0,447	0,433	0,420	0,408	0,393	0,379	0,365	0,351
	18						0,532	0,518	0,504	0,491	0,478	0,473	0,458	0,444	0,430	0,417	0,410	0,395	0,381	0,367	0,354	0,342	0,327	0,313	0,299	0,286
	20						0,488	0,474	0,460	0,447	0,433	0,430	0,415	0,401	0,387	0,374	0,368	0,353	0,338	0,324	0,311	0,299	0,284	0,270	0,257	0,244
	22						0,446	0,431	0,417	0,403	0,390	0,388	0,373	0,358	0,345	0,331	0,325	0,311	0,296	0,283	0,270	0,255	0,241	0,228	0,215	0,203
	24						0,404	0,389	0,375	0,361	0,347	0,346	0,331	0,317	0,303	0,290	0,284	0,269	0,255	0,242	0,230	0,211	0,198	0,186	0,174	0,163
45	10											0,597	0,585	0,572	0,560	0,548	0,538	0,524	0,511	0,498	0,485	0,475	0,461	0,447	0,433	0,420
	15											0,488	0,474	0,460	0,447	0,433	0,430	0,415	0,401	0,387	0,374	0,368	0,353	0,338	0,324	0,311
	18											0,425	0,410	0,396	0,382	0,368	0,367	0,352	0,338	0,324	0,311	0,304	0,290	0,276	0,262	0,250
	20											0,383	0,368	0,354	0,340	0,327	0,326	0,311	0,297	0,283	0,270	0,263	0,249	0,235	0,223	0,210
	22											0,342	0,327	0,313	0,299	0,286	0,285	0,271	0,257	0,244	0,232	0,222	0,208	0,196	0,184	0,173
	24											0,302	0,288	0,274	0,260	0,248	0,246	0,232	0,218	0,206	0,194	0,181	0,168	0,157	0,146	0,136
40	10																0,488	0,474	0,460	0,447	0,433	0,430	0,415	0,401	0,387	0,374
	15																0,383	0,368	0,354	0,340	0,327	0,326	0,311	0,297	0,283	0,270
	18																0,322	0,307	0,293	0,280	0,267	0,265	0,251	0,238	0,225	0,213
	20																0,283	0,268	0,254	0,241	0,229	0,226	0,212	0,200	0,188	0,176
	22																0,244	0,230	0,217	0,204	0,193	0,187	0,175	0,163	0,152	0,142
	24																0,206	0,193	0,180	0,169	0,158	0,149	0,138	0,127	0,117	0,108

Notes



Functional principle

ComfoFond
Geothermal heat exchanger (optional)

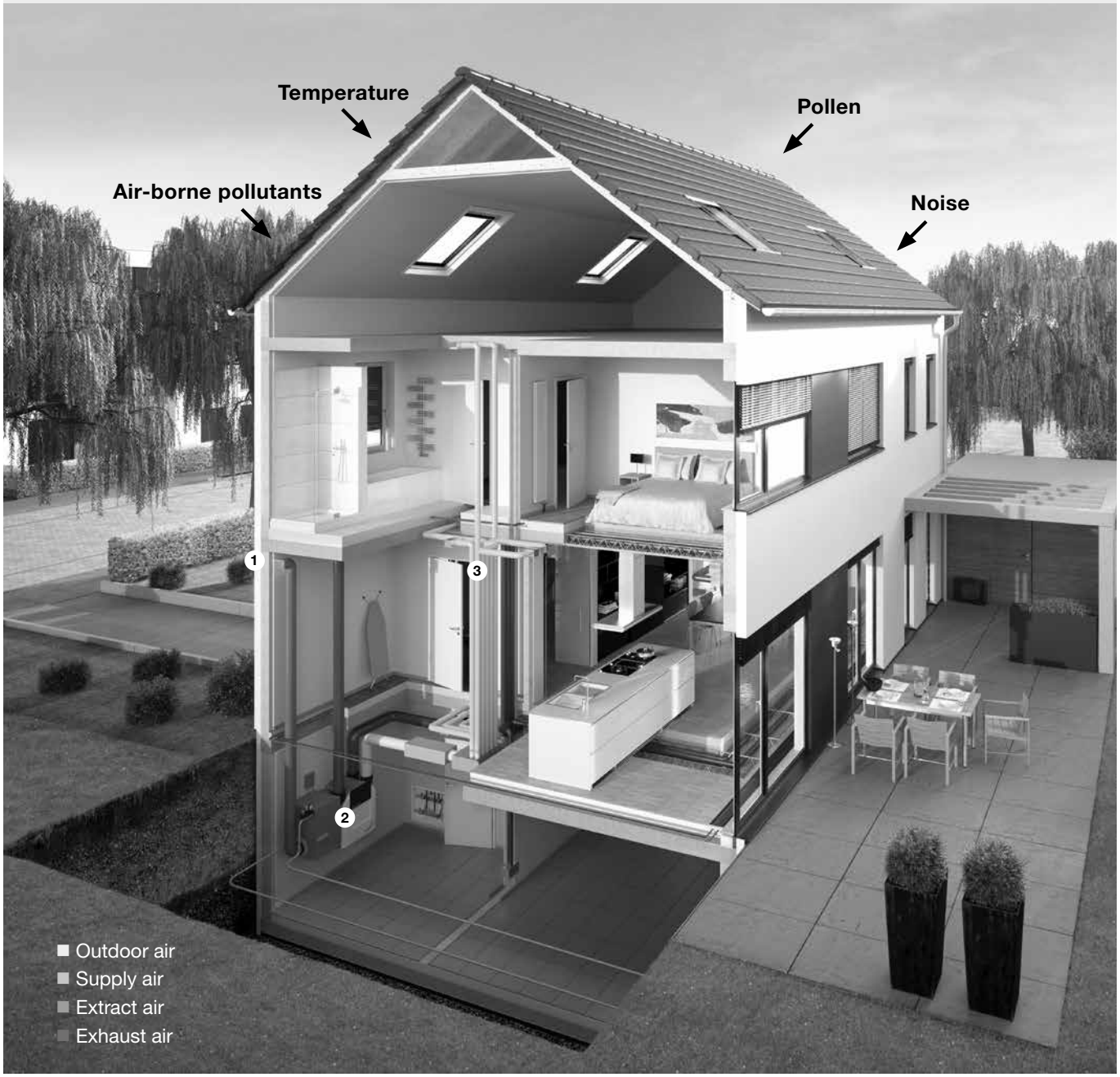
ComfoUnit
Ventilation units

ComfoFresh
Air distribution

1. Fresh air is fed into the system via an external wall vent. The fresh outdoor air can optionally flow through the Zehnder ComfoFond-L sub-soil heat exchanger, which uses geothermal energy to pre-temper the outdoor air.

2. The Zehnder ComfoAir ventilation unit recovers up to 95% of the energy from the extract air and returns it to the fresh air. This can be humidified, dehumidified and pre-tempered using optional components.

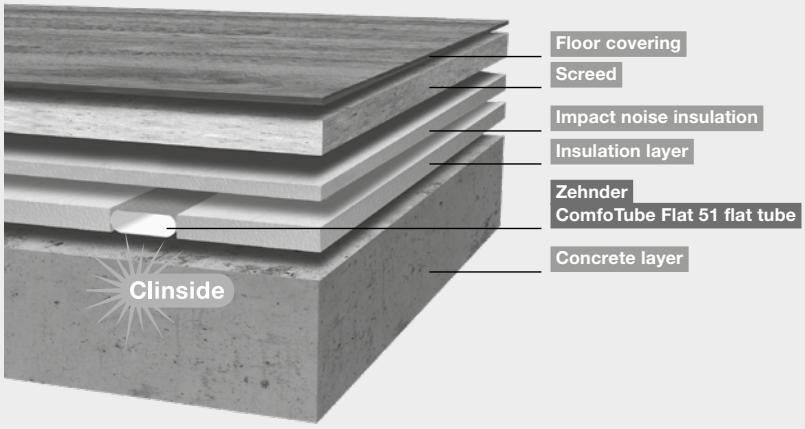
3. The Zehnder ComfoFresh air distribution system channels fresh air at the right temperature to individual rooms as needed and vents the extract air to the outside. The air volume can be individually adjusted for each room.



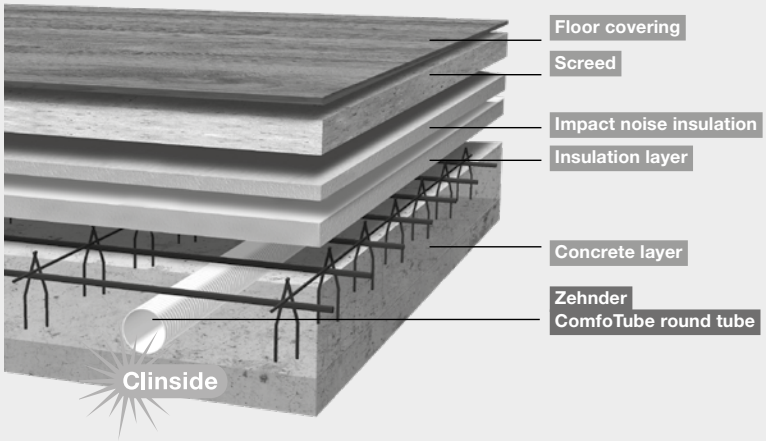
Air distribution system – effective and hygienic

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.

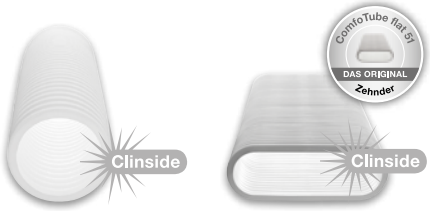
The air distribution system with flat tube for cover, wall and floor (Zehnder OnFloor)



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

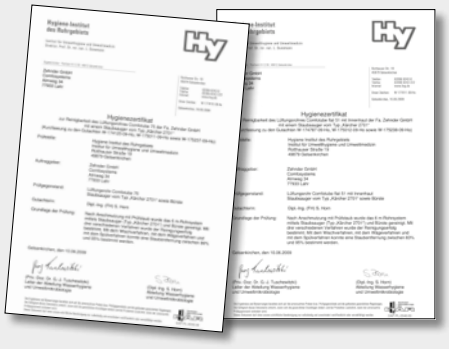


- Easy to install, flexible pipes
- High-quality food grade plastic (HDPE)
- Clinside smooth inner skin for clean tubes
- Centrally and peripherally adjustable airflow rates
- Low pressure loss
- Easy to clean



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

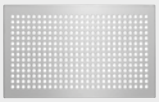
- For use in demanding residential and commercial buildings
- Up to 95% heat recovery by cross-counterflow heat exchanger
- Fans with extremely efficient EC motors
- 100% automatic bypass
- Option: Electric pre-heater or enthalpy exchanger

Zehnder ComfoAir Q350 TR

Passive house certified

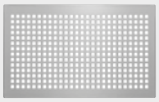
Zehnder designer grilles

- 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 coeur

Notes

Notes

Warm colours

Colour category 1: CORE

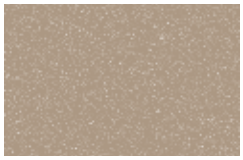
White Quartz [1)]
0521

Pure White [2)]
RAL 9010 / 9010

Edelweiss
0067

Cream
RAL 9001 / 9001

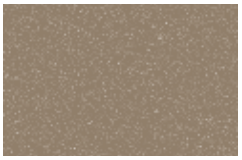
Telegrey 4
RAL 7047 / 7247



Beige Quartz
0523

Golden Sand
0258

Yellow Grey
RAL 7034 / 7234



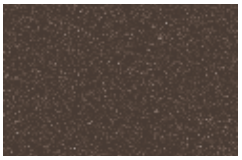
Pearl Beige
RAL 1035 / 1235

Beach Gold
0272

Concrete Grey
0265

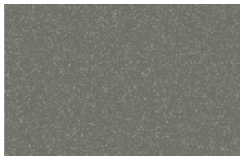
Beige Grey
0267

Bronze
0276

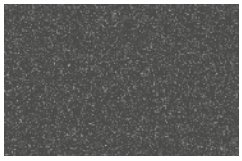


Brown Quartz
0529

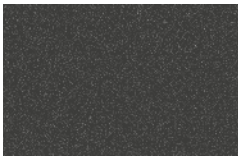
Dark Brown
0270



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 %

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

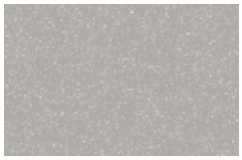
Cool colours

Colour category 1: CORE

White Matt
0556

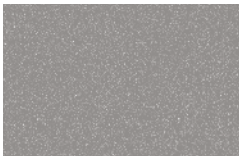
Light Beige
0253

Light Grey
0262

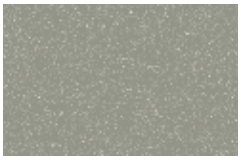


White Aluminium
9006

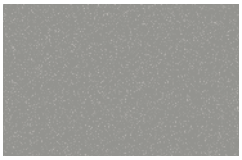
Light Jeans
0264



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

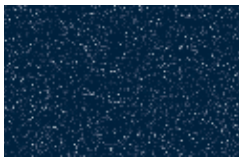
Surcharge for colour category 1: 20 %

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

FINISHES

Technoline (Clear) [3)]
0325

Chrome (Surface)
0008

Stainless steel brushed
9517

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 (EDI) 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.

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Z-SI-V1122-RAD-PRL-Roda, en, subject to change without notice