

Zehnder Radiavector

Technical Brochure
Decorative Radiators

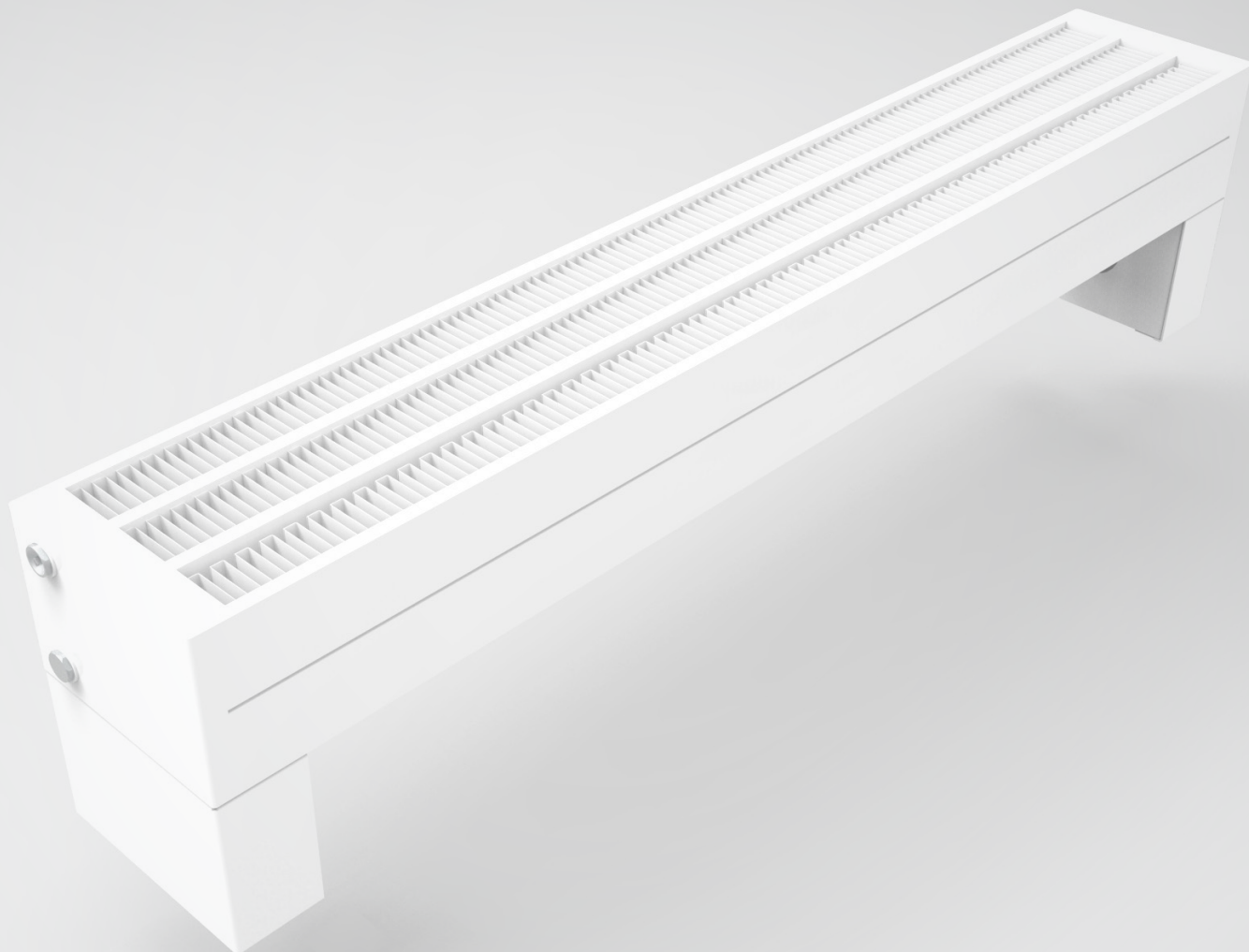


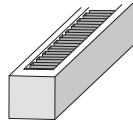
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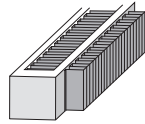


Zehnder Radiavector

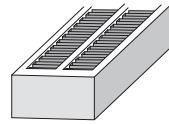
Zehnder Radiavector



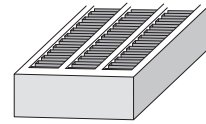
2-tube



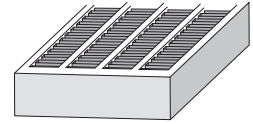
2-tube with additional fin



3-tube



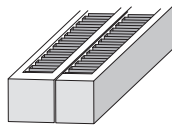
4-tube



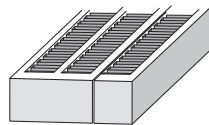
5-tube

Height mm	Depth mm				
	73	104	134	195	256
70	ZRV211	ZRV221	ZRV321	ZRV431	ZRV541
140	ZRV212	ZRV222	ZRV322	ZRV432	ZRV542
210	ZRV213	ZRV223	ZRV323	ZRV433	ZRV543
280	ZRV214	ZRV224	ZRV324	ZRV434	ZRV544

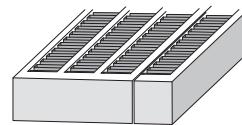
Zehnder Radiavector with thermal radiation shield (WVO)



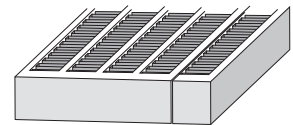
2-tube WVO



3-tube WVO



4-tube WVO



5-tube WVO

Height mm	Depth mm			
	134	195	256	317
70	ZRV211/1	ZRV321/1	ZRV431/1	ZRV541/1
140	ZRV212/1	ZRV322/1	ZRV432/1	ZRV542/1
210	ZRV213/1	ZRV323/1	ZRV433/1	ZRV543/1
280	ZRV214/1	ZRV324/1	ZRV434/1	ZRV544/1

Zehnder Radiavector



Zehnder Radiavector



Zehnder Radiavector Bench



Zehnder Radiavector with secured floor supports

Product description

The Zehnder Radiavector is the classic convector. Its closed, linear shape gives it an almost timeless appearance, allowing it to be integrated into a wide range of building styles.

Convectors are always used where a lot of heat has to be produced in the smallest of spaces. They are also frequently required when the high airflow of the convector is especially needed to compensate for the cold air that falls in front of floor to ceiling windows, to avoid the formation of condensation or simply to bring the indoor air to the right temperature quickly.

A special feature of the Zehnder Radiavector is the harmonious design combination with the Zehnder Radiapanel. The Radiapanel offers greater vertical options, with increased heat output.

Grilles can also be used with the Zehnder Radiavector, with a choice of three options for added safety provision.

The maxim that colours can significantly influence the design also applies to the Zehnder Radiavector – in all colours of the Zehnder colour chart and even in other colour tones on request.

Technical data

- Flat tubes 70 x 11 mm
- Operating pressure max. 6 bar
- Operating temperature max. 110 °C
- Priming and powder coating
- Thermal output tested to EN 442, with CE marking
- High pressure version max. 10 bar

Customisation options

- Grille in three designs
- Integrated thermal radiation shield for energy-saving installation
- Different fixings
- Various connection options
- Integrated valve
- Can be installed in the floor duct
- Solutions for corner applications available
- Solutions for benches

Advantages

- Compact construction
- High thermal output
- Sealed unit
- Low heights for glass fronts

Scope of delivery for standard version

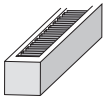
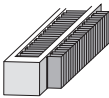
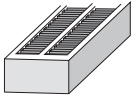
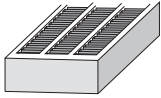
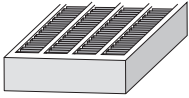
- Primed and painted in RAL 9016
- Connections 4 x 1/2" female thread for opposite end connections
- 1 blanking plug 1/2", directional air vent 1/2", nickel-plated
- Packaging in cardboard and film, with edge protection

Scope of delivery for Completo version

- Primed and painted in RAL 9016
- Valve unit integrated on side, with valve insert AV 6, max. flow rate 250 kg/h
- Connections 2 x 1/2" female thread from bottom, 50 mm
- 1 x 1/2" connection for directional air vent
- Packaging in cardboard and film, with edge protection

Zehnder Radiavector

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

Height	mm	70				
						
Model		ZRV211	ZRV221	ZRV321	ZRV431	ZRV541
Depth	mm	73	104	134	195	256
Exponent	n	1,29	1,30	1,29	1,29	1,29
Length mm		Φ_s	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt	Watt
400		134	174	231	323	411
500		168	218	289	404	514
600		201	261	347	485	617
700		235	305	405	566	720
800		268	348	462	647	822
900		302	392	520	728	925
1000		336	435	578	809	1028
1100		369	479	636	889	1131
1200		403	523	693	970	1234
1300		436	566	751	1051	1336
1400		470	610	809	1132	1439
1500		503	653	867	1213	1542
1600		537	697	925	1294	1645
1700		570	740	982	1375	1748
1800		604	784	1040	1455	1850
1900		637	827	1098	1536	1953
2000		671	871	1156	1617	2056
2200		738	958	1271	1779	2262
2400		805	1045	1387	1941	2467
2600		872	1132	1503	2102	2673
2800		939	1219	1618	2264	2879
3000		1007	1306	1734	2426	3084
3200		1074	1393	1849	2587	3290
3400		1141	1481	1965	2749	3495
3600		1208	1568	2080	2911	3701
3800		1275	1655	2196	3073	3907
4000		1342	1742	2312	3234	4112
4200		1409	1829	2427	3396	4318
4400		1476	1916	2543	3558	4523
4600		1543	2003	2658	3719	4729
4800		1610	2090	2774	3881	4935
5000		1678	2177	2890	4043	5140
5200		1745	2264	3005	4205	5346
5400		1812	2351	3121	4366	5551
5600		1879	2438	3236	4528	5757
5800		1946	2526	3352	4690	5963
6000		2013	2613	3467	4851	6168

Surcharge for Completo, connection V013/V014, see page 16

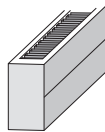
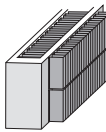
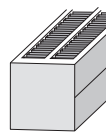
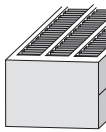
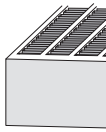
Special colours: All RAL colours in the Zehnder colour chart available; other colours available on request. Surcharge applies.

For grille, see "Special solutions", page 13

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 Radiavector

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

Height	mm	140				
						
Model		ZRV212	ZRV222	ZRV322	ZRV432	ZRV542
Depth	mm	73	104	134	195	256
Exponent	n	1,30	1,30	1,30	1,30	1,30
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt	Watt
400		210	277	361	505	642
500		262	346	451	632	803
600		314	416	542	758	964
700		367	485	632	884	1124
800		419	554	722	1010	1285
900		472	623	812	1137	1445
1000		524	693	903	1263	1606
1100		577	762	993	1389	1767
1200		629	831	1083	1516	1927
1300		681	900	1174	1642	2088
1400		734	970	1264	1768	2248
1500		786	1039	1354	1895	2409
1600		839	1108	1444	2021	2569
1700		891	1178	1535	2147	2730
1800		943	1247	1625	2274	2891
1900		996	1316	1715	2400	3051
2000		1048	1385	1806	2526	3212
2200		1153	1524	1986	2779	3533
2400		1258	1662	2167	3031	3854
2600		1363	1801	2347	3284	4175
2800		1468	1940	2528	3537	4497
3000		1572	2078	2708	3789	4818
3200		1677	2217	2889	4042	5139
3400		1782	2355	3069	4294	5460
3600		1887	2494	3250	4547	5781
3800		1992	2632	3430	4800	6102
4000		2096	2771	3611	5052	6424
4200		2201	2909	3792	5305	6745
4400		2306	3048	3972	5557	7066
4600		2411	3186	4153	5810	7387
4800		2516	3325	4333	6063	7708
5000		2621	3463	4514	6315	8030
5200		2725	3602	4694	6568	8351
5400		2830	3741	4875	6821	8672
5600		2935	3879	5055	7073	8993
5800		3040	4018	5236	7326	9314
6000		3145	4156	5417	7578	9635

Surcharge for Completo, connection V013/V014, see page 16

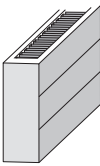
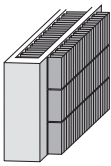
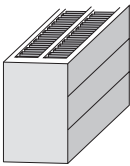
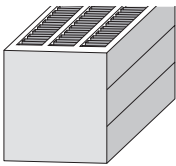
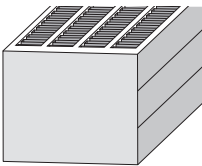
Special colours: All RAL colours in the Zehnder colour chart available; other colours available on request. Surcharge applies.

For grille, see "Special solutions", page 13

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 Radiavector

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

Height	mm	210				
						
Model		ZRV213	ZRV223	ZRV323	ZRV433	ZRV543
Depth	mm	73	104	134	195	256
Exponent	n	1,30	1,29	1,30	1,30	1,30
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt	Watt
400		273	360	470	658	837
500		341	450	588	823	1046
600		410	540	706	987	1255
700		478	630	823	1152	1464
800		546	720	941	1316	1674
900		614	810	1058	1481	1883
1000		683	900	1176	1645	2092
1100		751	990	1294	1810	2301
1200		819	1080	1411	1974	2510
1300		888	1170	1529	2139	2720
1400		956	1260	1646	2304	2929
1500		1024	1350	1764	2468	3138
1600		1092	1440	1882	2633	3347
1700		1161	1530	1999	2797	3556
1800		1229	1620	2117	2962	3766
1900		1297	1710	2234	3126	3975
2000		1366	1800	2352	3291	4184
2200		1502	1980	2587	3620	4602
2400		1639	2160	2822	3949	5021
2600		1775	2340	3058	4278	5439
2800		1912	2520	3293	4607	5858
3000		2048	2700	3528	4936	6276
3200		2185	2881	3763	5265	6694
3400		2321	3061	3998	5594	7113
3600		2458	3241	4234	5923	7531
3800		2594	3421	4469	6252	7950
4000		2731	3601	4704	6581	8368
4200		2868	3781	4939	6911	8786
4400		3004	3961	5174	7240	9205
4600		3141	4141	5410	7569	9623
4800		3277	4321	5645	7898	10042
5000		3414	4501	5880	8227	10460
5200		3550	4681	6115	8556	10878
5400		3687	4861	6350	8885	11297
5600		3823	5041	6586	9214	11715
5800		3960	5221	6821	9543	12134
6000		4097	5401	7056	9872	12552

Surcharge for Completo, connection V013/V014, see page 16

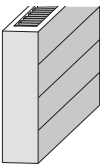
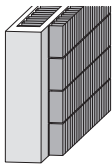
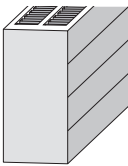
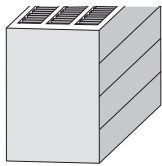
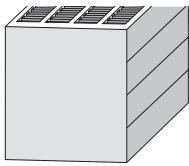
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Zehnder Radiavector

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

Height	mm	280				
						
Model		ZRV214	ZRV224	ZRV324	ZRV434	ZRV544
Depth	mm	73	104	134	195	256
Exponent	n	1,30	1,29	1,30	1,30	1,30
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt	Watt
400		330	431	569	796	1012
500		413	538	711	995	1265
600		495	646	853	1194	1518
700		578	754	996	1393	1771
800		661	861	1138	1592	2024
900		743	969	1280	1791	2277
1000		826	1077	1422	1990	2530
1100		908	1184	1564	2189	2783
1200		991	1292	1707	2388	3036
1300		1073	1400	1849	2587	3289
1400		1156	1508	1991	2786	3542
1500		1239	1615	2133	2985	3795
1600		1321	1723	2275	3184	4048
1700		1404	1831	2418	3383	4301
1800		1486	1938	2560	3582	4554
1900		1569	2046	2702	3781	4807
2000		1651	2154	2844	3980	5060
2200		1816	2369	3129	4378	5566
2400		1982	2584	3413	4776	6072
2600		2147	2800	3698	5173	6578
2800		2312	3015	3982	5571	7084
3000		2477	3230	4267	5969	7590
3200		2642	3446	4551	6367	8096
3400		2807	3661	4835	6765	8602
3600		2972	3877	5120	7163	9108
3800		3138	4092	5404	7561	9614
4000		3303	4307	5689	7959	10120
4200		3468	4523	5973	8357	10626
4400		3633	4738	6258	8755	11132
4600		3798	4953	6542	9153	11638
4800		3963	5169	6826	9551	12144
5000		4128	5384	7111	9949	12650
5200		4294	5599	7395	10347	13156
5400		4459	5815	7680	10745	13662
5600		4624	6030	7964	11143	14168
5800		4789	6246	8249	11541	14673
6000		4954	6461	8533	11939	15179

Surcharge for Completo, connection V013/V014, see page 16

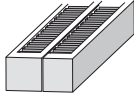
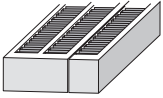
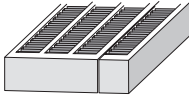
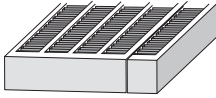
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Zehnder Radiavector

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

Height	mm	70			
					
Model		ZRV211/1	ZRV321/1	ZRV431/1	ZRV541/1
Depth	mm	134	195	256	317
Exponent	n	1,30	1,30	1,30	1,30
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt
400		174	267	356	444
500		218	333	445	555
600		261	400	534	666
700		305	466	623	777
800		348	533	712	888
900		392	600	802	999
1000		435	666	891	1110
1100		479	733	980	1221
1200		523	800	1069	1332
1300		566	866	1158	1443
1400		610	933	1247	1554
1500		653	1000	1336	1665
1600		697	1066	1425	1776
1700		740	1133	1514	1887
1800		784	1199	1603	1998
1900		827	1266	1692	2109
2000		871	1333	1781	2220
2200		958	1466	1959	2442
2400		1045	1599	2137	2664
2600		1132	1733	2316	2886
2800		1219	1866	2494	3108
3000		1306	1999	2672	3330
3200		1393	2132	2850	3552
3400		1481	2266	3028	3774
3600		1568	2399	3206	3996
3800		1655	2532	3384	4218
4000		1742	2666	3562	4440
4200		1829	2799	3740	4662
4400		1916	2932	3919	4884
4600		2003	3065	4097	5106
4800		2090	3199	4275	5328
5000		2177	3332	4453	5550
5200		2264	3465	4631	5772
5400		2351	3598	4809	5994
5600		2438	3732	4987	6216
5800		2526	3865	5165	6438
6000		2613	3998	5344	6660

Surcharge for Completo, connection V013/V014, see page 16

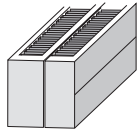
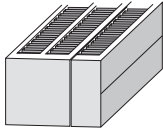
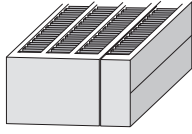
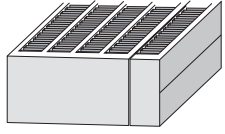
Special colours: All RAL colours in the Zehnder colour chart available; other colours available on request. Surcharge applies.

For grille, see "Special solutions", page 13

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 Radiavector

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

Height	mm	140			
					
Model		ZRV212/1	ZRV322/1	ZRV432/1	ZRV542/1
Depth	mm	134	195	256	317
Exponent	n	1,30	1,30	1,30	1,30
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt
400		277	424	567	706
500		346	530	708	883
600		416	636	850	1059
700		485	742	992	1236
800		554	848	1133	1413
900		623	954	1275	1589
1000		693	1060	1417	1766
1100		762	1166	1558	1942
1200		831	1272	1700	2119
1300		900	1378	1842	2296
1400		970	1484	1983	2472
1500		1039	1590	2125	2649
1600		1108	1696	2267	2825
1700		1178	1802	2408	3002
1800		1247	1908	2550	3178
1900		1316	2014	2692	3355
2000		1385	2120	2833	3532
2200		1524	2332	3117	3885
2400		1662	2544	3400	4238
2600		1801	2756	3683	4591
2800		1940	2968	3967	4944
3000		2078	3180	4250	5297
3200		2217	3392	4533	5651
3400		2355	3604	4817	6004
3600		2494	3816	5100	6357
3800		2632	4028	5384	6710
4000		2771	4240	5667	7063
4200		2909	4452	5950	7416
4400		3048	4664	6234	7770
4600		3186	4876	6517	8123
4800		3325	5088	6800	8476
5000		3463	5300	7084	8829
5200		3602	5512	7367	9182
5400		3741	5724	7650	9535
5600		3879	5936	7934	9889
5800		4018	6148	8217	10242
6000		4156	6360	8500	10595

Surcharge for Completo, connection V013/V014, see page 16

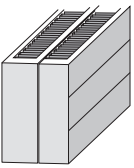
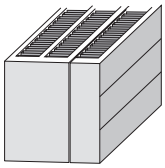
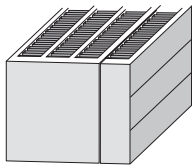
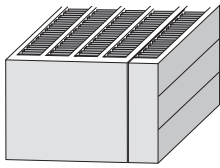
Special colours: All RAL colours in the Zehnder colour chart available; other colours available on request. Surcharge applies.

For grille, see "Special solutions", page 13

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 Radiavector

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

Height	mm	210			
					
Model		ZRV213/1	ZRV323/1	ZRV433/1	ZRV543/1
Depth	mm	134	195	256	317
Exponent	n	1,29	1,29	1,29	1,29
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt
400		360	551	736	918
500		450	689	921	1147
600		540	827	1105	1377
700		630	964	1289	1606
800		720	1102	1473	1836
900		810	1240	1657	2065
1000		900	1378	1841	2295
1100		990	1515	2025	2524
1200		1080	1653	2209	2754
1300		1170	1791	2393	2983
1400		1260	1929	2577	3213
1500		1350	2066	2762	3442
1600		1440	2204	2946	3672
1700		1530	2342	3130	3901
1800		1620	2480	3314	4130
1900		1710	2617	3498	4360
2000		1800	2755	3682	4589
2200		1980	3031	4050	5048
2400		2160	3306	4418	5507
2600		2340	3582	4787	5966
2800		2520	3857	5155	6425
3000		2700	4133	5523	6884
3200		2881	4408	5891	7343
3400		3061	4684	6260	7802
3600		3241	4959	6628	8261
3800		3421	5235	6996	8720
4000		3601	5510	7364	9179
4200		3781	5786	7732	9638
4400		3961	6061	8101	10097
4600		4141	6337	8469	10556
4800		4321	6612	8837	11015
5000		4501	6888	9205	11474
5200		4681	7163	9573	11932
5400		4861	7439	9942	12391
5600		5041	7714	10310	12850
5800		5221	7990	10678	13309
6000		5401	8265	11046	13768

Surcharge for Completo, connection V013/V014, see page 16

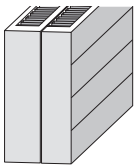
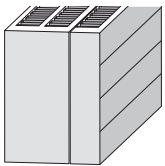
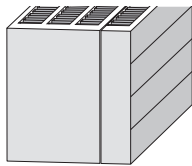
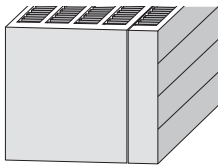
Special colours: All RAL colours in the Zehnder colour chart available; other colours available on request. Surcharge applies.

For grille, see "Special solutions", page 13

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 Radiavector

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

Height	mm	280			
					
Model		ZRV214/1	ZRV324/1	ZRV434/1	ZRV544/1
Depth	mm	134	195	256	317
Exponent	n	1,29	1,29	1,29	1,29
Length	mm	Φ_s	Φ_s	Φ_s	Φ_s
		Watt	Watt	Watt	Watt
400		431	659	881	1098
500		538	824	1101	1373
600		646	989	1321	1647
700		754	1154	1542	1922
800		861	1318	1762	2196
900		969	1483	1982	2471
1000		1077	1648	2202	2745
1100		1184	1813	2423	3020
1200		1292	1977	2643	3294
1300		1400	2142	2863	3569
1400		1508	2307	3083	3843
1500		1615	2472	3304	4118
1600		1723	2637	3524	4392
1700		1831	2801	3744	4667
1800		1938	2966	3964	4941
1900		2046	3131	4184	5216
2000		2154	3296	4405	5490
2200		2369	3625	4845	6039
2400		2584	3955	5286	6588
2600		2800	4285	5726	7137
2800		3015	4614	6167	7686
3000		3230	4944	6607	8235
3200		3446	5273	7047	8784
3400		3661	5603	7488	9333
3600		3877	5932	7928	9882
3800		4092	6262	8369	10431
4000		4307	6592	8809	10980
4200		4523	6921	9250	11529
4400		4738	7251	9690	12078
4600		4953	7580	10131	12627
4800		5169	7910	10571	13176
5000		5384	8240	11012	13725
5200		5599	8569	11452	14274
5400		5815	8899	11893	14823
5600		6030	9228	12333	15372
5800		6246	9558	12774	15921
6000		6461	9887	13214	16470

Surcharge for Completo, connection V013/V014, see page 16

Special colours: All RAL colours in the Zehnder colour chart available; other colours available on request. Surcharge applies.

For grille, see "Special solutions", page 13

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 Radiavector

Intermediate lengths

Calculated to next-largest catalogue length

Special shape: angled or curved

Lugs (only for models without thermal radiation shield, for details, see p. 27)

Grille – fixed with retaining springs

All grilles are delivered with retaining springs (standard); grilles A and C are also available as welded-on versions at no additional cost ¹⁾

Grille A



Grille	Max. grille length*
A	3000
B	1500
C	2000

* longer grilles are delivered in several parts or welded on

for type ZRV211 - 214
for type ZRV321 - 324
for type ZRV431 - 434
for type ZRV541 - 544

Models with thermal radiation shield

for type ZRV211/1 - 214/1
for type ZRV321/1 - 324/1
for type ZRV431/1 - 434/1
for type ZRV541/1 - 544/1

Grille B



Grille C



High pressure version 10 bar

- Types ZRV and ZRV/1

Welded floor supports

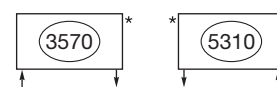
(only for finished floors, not possible for models ZRV211 - 214 + ZRV221 - 224)
Models ZRV211/1 - 214/1 are only possible with opposite end connection for hidden connection from below, same side (behind each other) or opposite end; additional central supports, symmetrically distributed:

Height of radiator 70 to 280 mm:

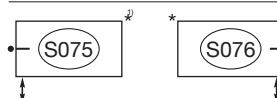
3rd foot starting at length 2000 mm
4th foot starting at length 4000 mm

Height of radiator Model ZRV54x and ZRV54x/1:

3rd foot starting at length 1100 mm
4th foot starting at length 2000 mm
5th foot starting at length 4000 mm



For dimensions see connections on next page



Dimensions available on request

¹⁾Connections are behind one another over the depth of the radiator

With Completto connection
(Arrangement of welded floor supports subject to variation)

Illustration: Model ZRV322/1

Basis for calculating the surcharge is the standard finish version

Bench frame

See page 21

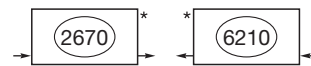
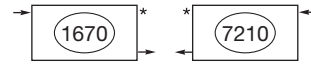
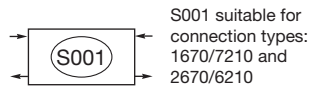
¹⁾ Cannot be combined with security clips

Zehnder Radiavector

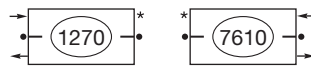
Connection type Dimensional drawings: Front view, side view and top view (bottom)

Connection 2-tube with external valve (unless indicated otherwise in the order, the connections are on the side facing the wall as standard)

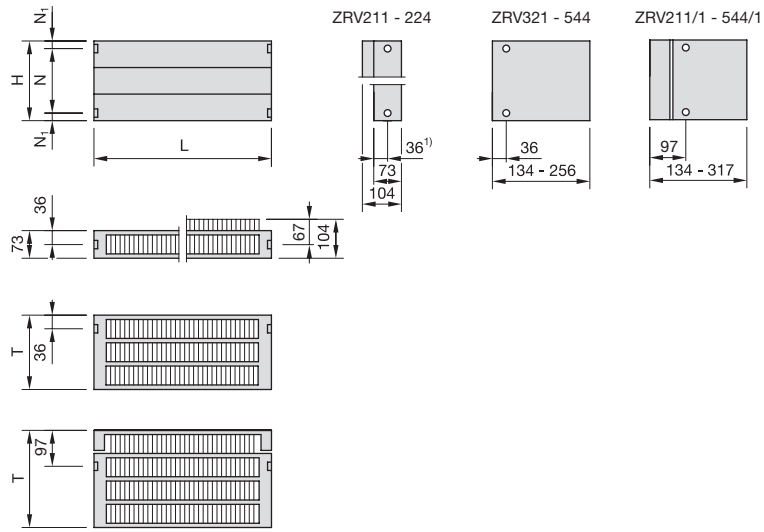
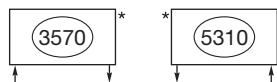
Opposite end



Same side

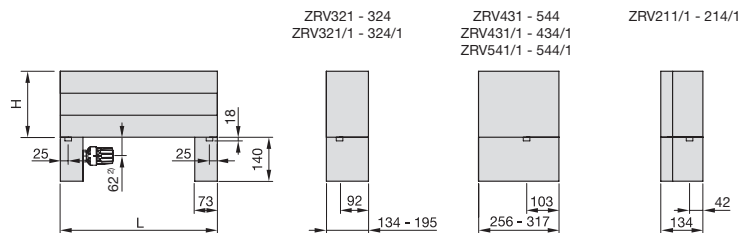
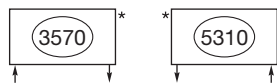


From bottom to bottom



Connection 2-tube with external valve and secured floor supports

Opposite-end connection



When an order is placed without indication of the connection type, 4 x 1/2" (S001) are delivered. Possible connections: 1670/7210 and 2670/6210.

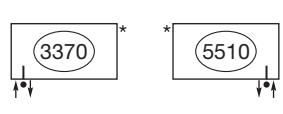
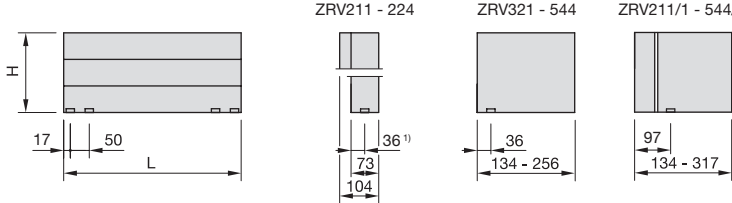
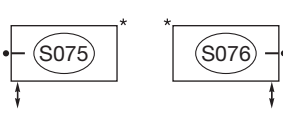
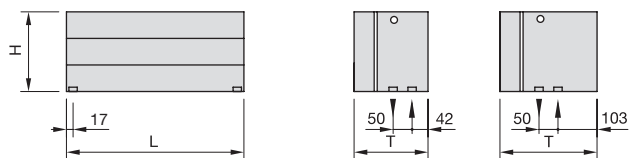
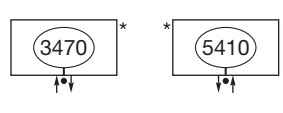
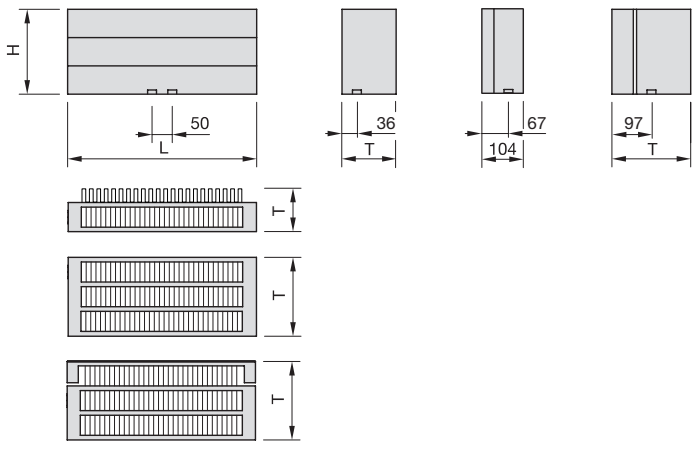
- H = Height
- L = Length
- T = Depth
- N = Connection centre
- N₁ = Connection size (for high pressure version on request)
- * = Venting
- = Internal installations

Dimensions in mm

Connection size Ø	3/8"	1/2"	3/4"
N ₁	25	25	25
N ₁ for height 70 mm	16	18	-

¹⁾ Dimension from rear edge of radiator to centre connection for models ZRV221 - 224 + 31 mm
²⁾ Dimension for thermostat cut-out

Zehnder Radiavector

Connection type	Dimensional drawings: Front view, side view and top view (bottom)
<p>Connection 2-tube with external valve (unless indicated otherwise in the order, the connections are on the side facing the wall as standard)</p> <p>From bottom to bottom on side, connections next to each other</p> 	 <p>For height 70 mm, pipe and profile fins are visible. A grille is recommended.</p>
<p>From bottom to bottom on side, connections behind one another</p> 	
<p>From bottom to bottom, central 50 mm</p> 	 <p>For height 70 mm, pipe and profile fins are visible. A grille is recommended.</p>

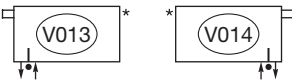
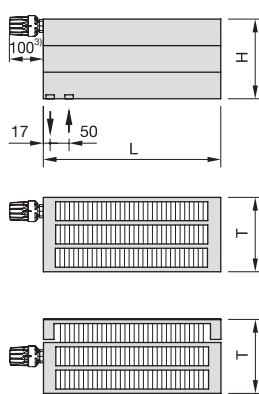
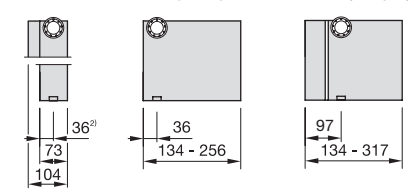
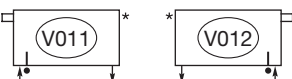
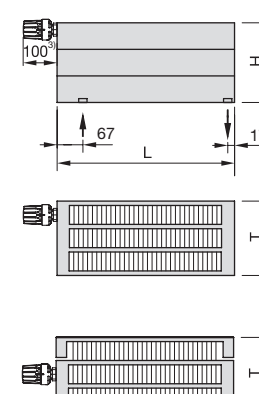
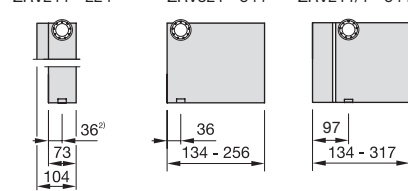
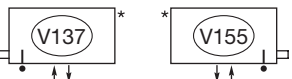
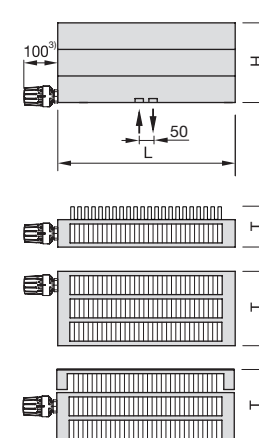
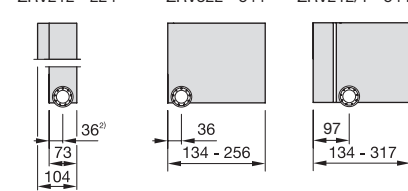
When an order is placed without indication of the connection type, 4 x 1/2" (S001) are delivered. Possible connections: 1670/7210 and 2670/6210.

- H = Height
- L = Length
- T = Depth
- * = Venting
- = Internal installations

Dimensions in mm

¹⁾ Dimension from rear edge of radiator to centre connection for models ZRV221 - 224 + 31 mm

Zehnder Radiavector

Connection type	Dimensional drawings: Front view, side view and top view (bottom)		
Completo connection with integrated valve¹⁾ (max. recommended flow rate 250 kg/h)			
<p>50 mm connection on side</p> 			<p>ZRV211 - 224 ZRV321 - 544 ZRV211/1 - 544/1</p> 
<p>Opposite-end connection</p> 			<p>ZRV211 - 224 ZRV321 - 544 ZRV211/1 - 544/1</p> 
<p>Central connection, 50 mm</p> 			<p>ZRV212 - 224 ZRV322 - 544 ZRV212/1 - 544/1</p> 

For height 70 mm, pipe and profile fins are visible. A grille is recommended.

When an order is placed without indication of the connection type, 4 x 1/2" (S001) are delivered. Possible connections: 1670/7210 and 2670/6210.

- H = Height
- L = Length
- T = Depth
- * = Venting
- = Internal installations

Dimensions in mm

¹⁾ Dimension from rear edge of radiator to centre connection for models ZRV221 - 224 + 31 mm
²⁾ Applies to Zehnder thermostat LH2

Zehnder Radiavector

Series version		
Models	Opposite end connection, flow on left	Opposite end connection, flow on right
Height 70 mm Zeta value $3 \times 2 = 6$ (100% water quantity) ¹⁾		
Height 140–280 mm Zeta value 2 (100% water quantity) Plus $4 \times 2 = 8$ (50% water quantity)		
Models	Same-side connection, flow on left	Same-side connection, flow on right
Height 70 mm	Not possible	Not possible
Height 140 mm Zeta value $5 \times 2 = 10$ (100% water quantity)		
Height 210, 280 mm Zeta value $5 \times 2 = 10$ (100% water quantity)		

* Venting, Δ drainage, *** = Baffle 100% tight

¹⁾ Only possible with connection diameter $\frac{1}{2}$ "

Attention:

Surcharges for series version with baffle on request.

Zehnder Radiavector can be installed in series according to the sketches shown above. The radiators are delivered individually, the connections are to be installed on site. No more than 3 Zehnder Radiavectors of 6000 mm in length each should be installed in series. The recommended dimension for link pipes is $\frac{3}{4}$ ". Zehnder Radiavector must be installed in accordance with the arrangement shown here. When placing an order, please indicate the required arrangement.

Inlet and outlet resistance zeta value $\zeta = 2.0$ per Zehnder Radiavector for connection dimensions $\frac{3}{8}$ " to $\frac{3}{4}$ " and water velocities of up to 1 m/sec. Internal resistance can be neglected for all models up to 6000 mm in length. In the series version, the zeta value for inlet and outlet must be taken into consideration for each Zehnder Radiavector.

Example:

Installation in series type 10, 11, 12:

1 inlet and outlet zeta 2.0 with 100% water quantity plus 4 outlets and inlets zeta 2.0 with 50% water quantity.

Installation in series type 19, 20, 21:

1 plus 4 inlets and outlets = $5 \times$ zeta 2.0 with 100% water quantity.

Zehnder Radiavector

Recommended for installation situations with normal or increased requirements.¹⁾

Description	Sketch side view	Application	Quantity of foot brackets	Model	White piece ²⁾ article no.		
Foot bracket FMORV 14	<p>Distance D (with WA = 50): ZRV 86 mm ZRV221 - 224 117 mm ZRV.../1 (WVO) 147 mm</p>	All models (without centre connections)					
		L = 400-2000 L > 2000-4000 L > 4000-6000	2 x FMORV 14 3 x FMORV 14 4 x FMORV 14	ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224	169121 169131 169141 169151		
				ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1	169201 169211 169221 169231		
				ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1	169241 169251 169261 169271		
				ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1	169281 169291 169301 169311		
		L = 400-1000 L > 1000-2000 L > 2000-4000 L > 4000-6000	2 x FMORV 14 3 x FMORV 14 4 x FMORV 14 5 x FMORV 14	ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1	169321 169331 169341 169351		
				Models with centre connections			
				L = 400-2000 L > 2000-4000 L > 4000-6000	2 x FMORV 14M 3 x FMORV 14M 4 x FMORV 14M	ZRV211-221 ZRV212-222 ZRV213-223 ZRV214-224	169361 169371 169381 169391
						ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1	169161 169171 169181 169191
		ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1	169401 169411 169421 169431				
ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1	169441 169451 169461 169471						
L = 400-1000 L > 1000-2000 L > 2000-4000 L > 4000-6000	2 x FMORV 14M 3 x FMORV 14M 4 x FMORV 14M 5 x FMORV 14M	ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1	169481 169491 169501 169511				

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list, and additionally comply with the following note:

Note:

Security clips (galvanised) are delivered as a locking device with each bracket. The security clips are hooked onto the fins and therefore cannot be combined with welded-on grilles.

²⁾ The article no. in colour is produced by replacing the end digit 1 by the end digit 9.

L = Length of radiator in mm

D = Distance from wall to middle of rear connection = return (if flow/return different) for WA = 50 mm, applicable for front connection

WA = Distance from wall to back of radiator, recommended clearance in front of walls 50 mm, in front of windows 100 mm (with thermal radiation shield)

BA = Distance to floor must be at least 100 mm.

Zehnder Radiavector

Recommended for installation situations with normal or increased requirements.¹⁾

Description	Sketch side view	Application	Quantity of wall brackets	Model	White piece ²⁾ article no.
Wall bracket WMORV	<p>Distance D: ZRV 86 mm ZRV221 - 224 86 mm ZRV.../1 (WVO) 147 mm</p>	All models (without centre connections)			
		L = 400-2000 L > 2000-4000 L > 4000-6000	2 x WMORV 3 x WMORV 4 x WMORV	ZRV211-221 ZRV212-222 ZRV213-223 ZRV214-224	949081 949091 949101 949111
				ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1	949121 949131 949141 949151
				ZRV321 ZRV322 ZRV323 ZRV324	949161 949171 949181 949191
				ZRV321/1, 431 ZRV322/1, 432 ZRV323/1, 433 ZRV324/1, 434	949201 949211 949221 949231
				ZRV431/1 ZRV432/1 ZRV433/1 ZRV434/1	949281 949291 949301 949311
		L = 400-1000 L > 1000-2000 L > 2000-4000 L > 4000-6000	2 x WMORV 3 x WMORV 4 x WMORV 5 x WMORV	ZRV541 ZRV542 ZRV543 ZRV544	949281 949291 949301 949311
				ZRV541/1 ZRV542/1 ZRV543/1 ZRV544/1	949361 949371 949381 949391

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list, and additionally comply with the following note:

Note:

Security clips (galvanised) are delivered as a locking device with each bracket. The security clips are hooked onto the fins and therefore cannot be combined with welded-on grilles.

²⁾ The article no. in colour is produced by replacing the end digit 1 by the end digit 9.

L = Length of radiator in mm

D = Distance from wall to middle of rear connection = return (if flow/return different), applicable for front connection

WA = 50 mm (models 221-224 WA = 18 mm)

BA = Distance to floor must be at least 100 mm.

Zehnder Radiavector

Recommended for installation situations with normal or increased requirements.¹⁾

Description	Sketch side view	Application	Quantity of wall brackets	Model	White piece ²⁾ article no.
Wall bracket WMORV M	<p>Distance D: ZRV 86 mm ZRV221 - 224 86 mm ZRV.../1 (WVO) 147 mm</p>	Models with centre connections			
		L = 400-2000 L > 2000-4000 L > 4000-6000	2 x WMORV M 3 x WMORV M 4 x WMORV M	ZRV211-221 ZRV212-222 ZRV213-223 ZRV214-224 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1 ZRV321 ZRV322 ZRV323 ZRV324 ZRV321/1, 431 ZRV322/1, 432 ZRV323/1, 433 ZRV324/1, 434 ZRV431/1 ZRV432/1 ZRV433/1 ZRV434/1	949401 949411 949421 949431 949441 949451 949461 949471 949481 949491 949501 949511 949521 949531 949541 949551 949601 949611 949621 949631
		L = 400-1000 L > 1000-2000 L > 2000-4000 L > 4000-6000	2 x WMORV M 3 x WMORV M 4 x WMORV M 5 x WMORV M	ZRV541 ZRV542 ZRV543 ZRV544 ZRV541/1 ZRV542/1 ZRV543/1 ZRV544/1	949601 949611 949621 949631 949681 949691 949701 949711

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list, and additionally comply with the following note:

Note:

Security clips (galvanised) are delivered as a locking device with each bracket. The security clips are hooked onto the fins and therefore cannot be combined with welded-on grilles.

²⁾ The article no. in colour is produced by replacing the end digit 1 by the end digit 9.

L = Length of radiator in mm

D = Distance from wall to centre connection

WA = 50 mm (models ZRV221-224 WA = 18 mm)

BA = Distance to floor must be at least 100 mm.

Zehnder Radiavector

Recommended for installation situations with normal or increased requirements.¹⁾

Description	Sketch side view	Application	Bench frame quantity	Model ²⁾	White piece ³⁾ article no.						
Bench frame	<table border="1" style="margin-top: 10px;"> <thead> <tr> <th>H</th> <th>H₁</th> </tr> </thead> <tbody> <tr> <td>70</td> <td>65</td> </tr> <tr> <td>140-280</td> <td>135</td> </tr> </tbody> </table>	H	H ₁	70	65	140-280	135	L = 400-2000 L > 2000-2600 L > 2600-4000 L > 4000-5300 L > 5300-6000	2 x 3 x 4 x 6 x 6 x	ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1 ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1	949761 949771 949781 949791 949801 949811 949821 949831
		H	H ₁								
70	65										
140-280	135										
L = 400-1000 L > 1000-2000 L > 2000-4000 L > 4000-5300 L > 5300-6000	2 x 2 x 4 x 6 x 6 x	ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1	949841 949851 949861 949871								

The seat is to be ordered on site depending on the installation situation.

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list, and additionally comply with the following note:

Note:

1. Depending on the installation situation and accessibility, it may be necessary to have a locking device/security clip.

²⁾ Restriction for models with centre connections: Heights of 70 mm cannot be combined with bench frames; the bench frames can only be secured to a limited extent with heights of 140–280 mm.

³⁾ The article no. in colour is produced by replacing the end digit 1 by the end digit 9.

Seat installation

ZRV321 - 324/1	ZRV431 - 434/1	ZRV541 - 544/1

Note:

Bench frames cannot be combined with grilles.

Security clips for fixing the fins are delivered as a locking device with each bench frame.

H = Height of radiator in mm

H₁ = Insertion depth of bench frame in radiator in mm

Dimensions in mm

Zehnder Radiavector

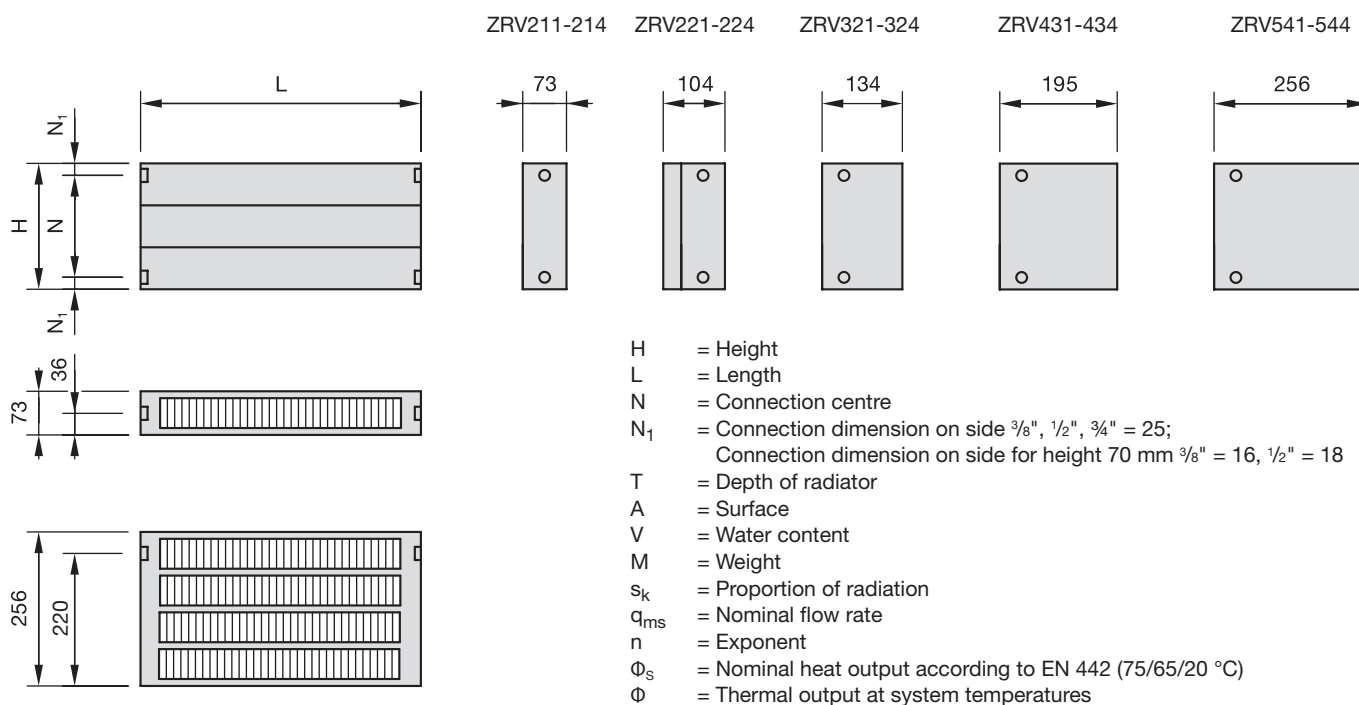
Recommended for a number of brackets and bench frames and for installations with normal or increased requirements.¹⁾

Radiator length	Quantity of brackets	Quantity of bench frames	Front view sketch
ZRV321-324, ZRV321/1-324/1, ZRV431-434, ZRV431/1-434/1			
L = 400-2000	2 x	2 x	
L > 2000-2600	3 x	3 x	
L > 2600-4000	3 x	4 x	
L > 4000-5300	4 x	6 x	
L > 5300-6000	4 x	6 x	
ZRV541-544, ZRV541/1-544/1			
L = 400-1000	2 x	2 x	
L > 1000-2000	3 x	2 x	
L > 2000-4000	4 x	4 x	
L > 4000-5300	5 x	6 x	
L > 5300-6000	5 x	6 x	

The seat is to be ordered on site depending on the installation situation.

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list.

Zehnder Radiavector

All models


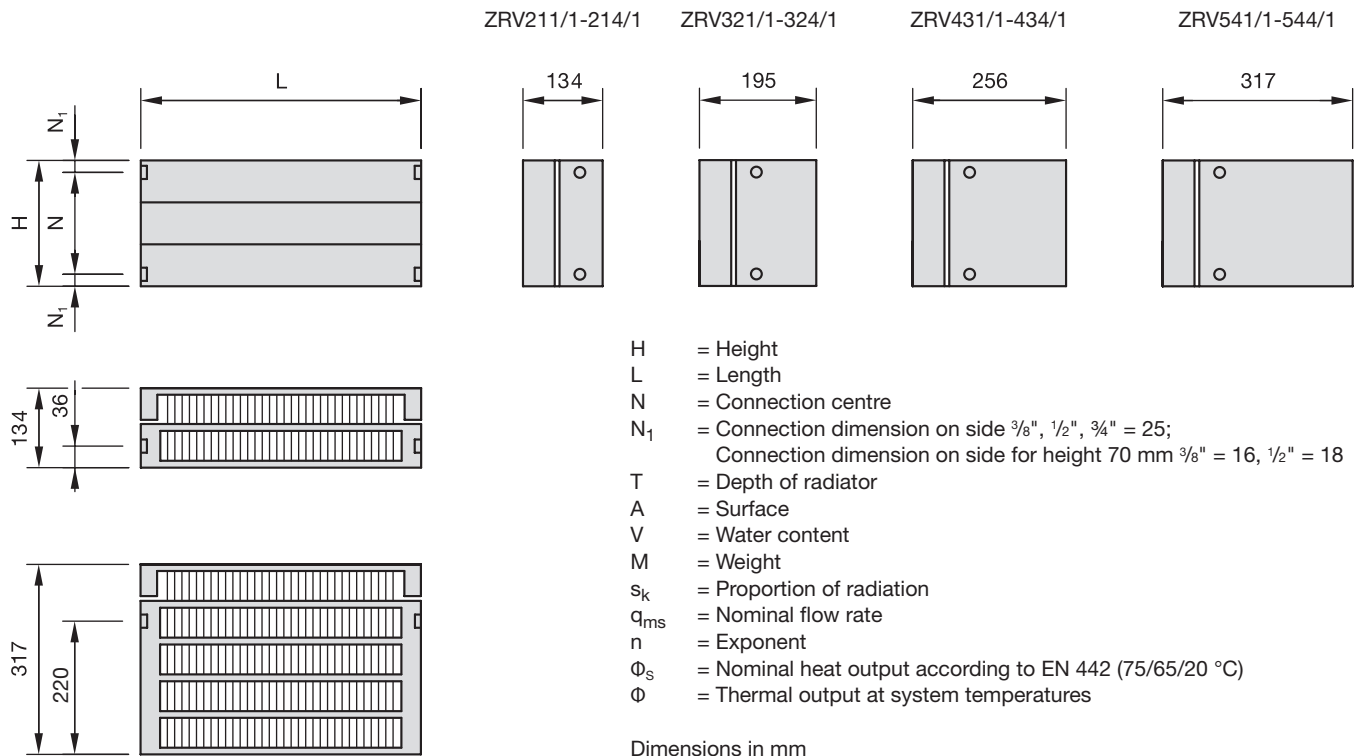
Dimensions in mm

Technical data for length 1000 mm

Model	H mm	N mm	T mm	A m ²	V dm ³	M kg	s _k %	q _{ms} kg/h	Exp, n	Φ _s =ΔT 50 K EN 442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
ZRV211	70	35	73	1,08	1,2	6,0	20	29	1,29	336	270	173
ZRV212	140	90	73	2,18	2,3	12,3	20	45	1,30	524	420	268
ZRV213	210	160	73	3,28	3,5	18,5	20	59	1,30	683	548	349
ZRV214	280	230	73	4,39	4,7	24,7	20	71	1,30	826	663	422
ZRV221	70	35	104	1,61	1,2	7,0	20	37	1,30	435	349	222
ZRV222	140	90	104	3,29	2,3	14,3	20	60	1,30	693	556	354
ZRV223	210	160	104	4,96	3,5	21,6	20	77	1,29	900	723	462
ZRV224	280	230	104	6,64	4,7	28,9	20	93	1,29	1077	865	553
ZRV321	70	35	134	2,00	1,8	9,6	10	50	1,29	578	464	297
ZRV322	140	90	134	4,07	3,7	19,6	10	78	1,30	903	724	461
ZRV323	210	160	134	6,13	5,5	29,6	10	101	1,30	1176	943	601
ZRV324	280	230	134	8,19	7,4	39,6	10	122	1,30	1422	1141	726
ZRV431	70	35	195	2,92	2,5	13,3	10	70	1,29	809	649	413
ZRV432	140	90	195	5,94	5,0	27,1	10	109	1,30	1263	1013	645
ZRV433	210	160	195	8,97	7,6	40,9	10	141	1,30	1645	1319	840
ZRV434	280	230	195	11,98	10,1	54,6	10	171	1,30	1990	1596	1016
ZRV541	70	35	256	3,84	3,2	17,0	10	88	1,29	1028	825	525
ZRV542	140	90	256	7,82	6,4	34,6	10	138	1,30	1606	1288	820
ZRV543	210	160	256	11,80	9,6	52,1	10	180	1,30	2092	1678	1069
ZRV544	280	230	256	15,78	12,8	69,7	10	218	1,30	2530	2029	1292

Zehnder Radiavector

All models with thermal radiation shield



Technical data for length 1000 mm

Model	H mm	N mm	T mm	A m ²	V dm ³	M kg	s _k %	q _{ms} kg/h	Exp, n	Φ _s =ΔT 50 K EN 442 Watt	Φ 70/55/20 °C Watt	Φ 55/45/20 °C Watt
ZRV211/1	70	35	134	1,94	1,2	9,7	20	37	1,30	435	349	222
ZRV212/1	140	90	134	3,98	2,3	19,4	20	60	1,30	693	556	354
ZRV213/1	210	160	134	6,00	3,5	29,3	20	77	1,29	900	722	460
ZRV214/1	280	230	134	8,04	4,7	39,0	20	93	1,29	1077	865	553
ZRV321/1	70	35	195	2,86	1,8	13,4	10	57	1,30	666	534	340
ZRV322/1	140	90	195	5,87	3,7	26,9	10	91	1,30	1060	850	541
ZRV323/1	210	160	195	8,85	5,5	40,6	10	119	1,29	1378	1105	704
ZRV324/1	280	230	195	11,84	7,4	54,4	10	142	1,29	1648	1324	846
ZRV431/1	70	35	256	3,78	2,5	17,1	10	77	1,30	891	715	455
ZRV432/1	140	90	256	7,74	5,0	34,5	10	122	1,30	1417	1137	724
ZRV433/1	210	160	256	11,69	7,6	52,0	10	158	1,29	1841	1479	945
ZRV434/1	280	230	256	15,63	10,1	69,3	10	189	1,29	2202	1769	1131
ZRV541/1	70	35	317	4,70	3,2	20,7	10	95	1,30	1110	890	567
ZRV542/1	140	90	317	9,62	6,4	42,1	10	152	1,30	1766	1417	902
ZRV543/1	210	160	317	14,52	9,6	63,1	10	197	1,29	2295	1844	1178
ZRV544/1	280	230	317	19,43	12,8	84,8	10	236	1,29	2745	2205	1409

Zehnder Radiavector

Recommended for installation situations with normal or increased requirements.¹⁾

Dimensions for the location of the fixing pieces

Models	FMORV	
<p>Note:</p> <p>Preassembly of the brackets is not recommended, as the position of the fins cannot be indicated with mm precision in advance.</p>	<p>View from below</p>	<p>Front view</p> <p>ZRV2xx-ZRV4xx: 400–2000 mm ZRV5xx: 400–1000 mm</p>
<p>H = Height in mm T = Depth in mm</p>	<p>Rear view</p>	<p>Front view</p> <p>ZRV2xx-ZRV4xx: 400–2000 mm ZRV5xx: 400–1000 mm</p>

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list.

²⁾ The setting back of the bracket from the outer edge can only be done approximately, based on the above information. This can also be reduced for side connections.

Zehnder Radiavector

Recommended for installation situations with normal or increased requirements.¹⁾

Dimensions for the location of the fixing pieces

Models	FMORV (centre connections)	
<p>Note:</p> <p>Preassembly of the brackets is not recommended, as the position of the fins cannot be indicated with mm precision in advance.</p>	<p>View from below</p>	<p>Front view</p> <p>ZRV2xx-ZRV4xx: 400–2000 mm ZRV5xx: 400–1000 mm</p> <p>ZRV2xx-ZRV4xx: > 2000–4000 mm ZRV5xx: > 1000–2000 mm</p> <p>ZRV2xx-ZRV4xx: > 4000–6000 mm ZRV5xx: > 2000–4000 mm</p> <p>ZRV5xx: > 4000–6000 mm</p>
<p>H = Height in mm T = Depth in mm</p>	<h3>WMORV (centre connections)</h3> <p>Rear view</p> <p>Front view</p> <p>ZRV2xx-ZRV4xx: 400–2000 mm ZRV5xx: 400–1000 mm</p> <p>ZRV2xx-ZRV4xx: > 2000–4000 mm ZRV5xx: > 1000–2000 mm</p> <p>ZRV2xx-ZRV4xx: > 4000–6000 mm ZRV5xx: > 2000–4000 mm</p> <p>ZRV5xx: > 4000–6000 mm</p>	

¹⁾ Notes on load requirements, safety and installation conditions in the keyword list.
²⁾ The setting back of the bracket from the outer edge can only be done approximately, based on the above information. This can also be reduced for side connections.
³⁾ Due to centre connections: move the bracket 100 mm to the right or left.

Zehnder Radiavector

Lugs

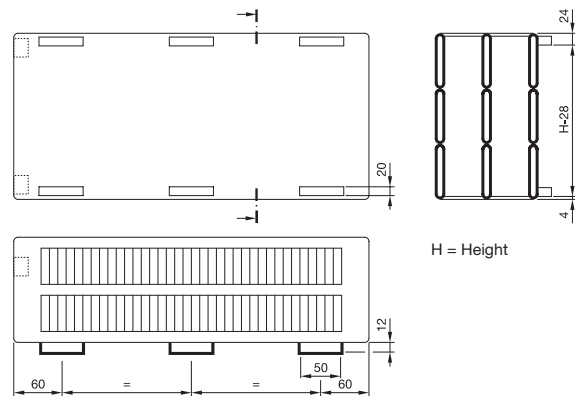
Zehnder Radiavector is delivered in the standard version without lugs for assembly with wall brackets WMORV or foot brackets FMORV. On request, the Zehnder Radiavector without thermal radiation shield can also be delivered with lugs for installation using suitable wall brackets, see "Special solutions, page 13". For brackets, see section on "Accessories, pages 29-37".

No. of lugs top/ bottom per	Zehnder Radiavectors ZRV	
		212, 322, 213, 323, 214, 324
2	Length L	
3	to 1600	to 1200
4	1700 to 3200	1300 to 2400
5	3300 to 4800	2500 to 3600
6	4900 to 6000	3700 to 4800
	-	4900 to 6000

Dimensions in mm

Lugs are offset on the 70 mm height models (details on request)

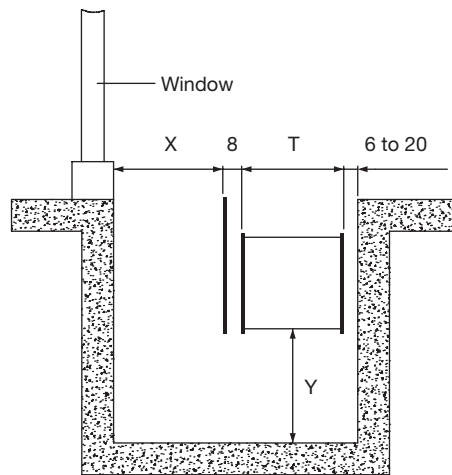
For ZRV without additional fins



Installation in floor ducts

$X = Y = \text{Min. depth } T$

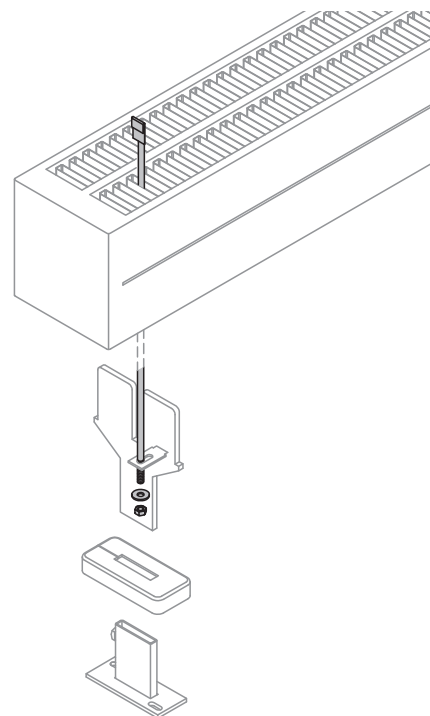
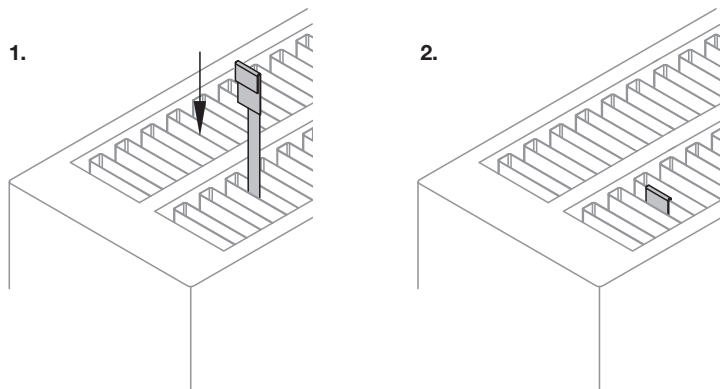
Reduced output for open installation in floor ducts approx. 20%. A grille with a free cross section of at least 70% across the floor duct will reduce the heat emission by approximately 35%.



Zehnder Radiavector

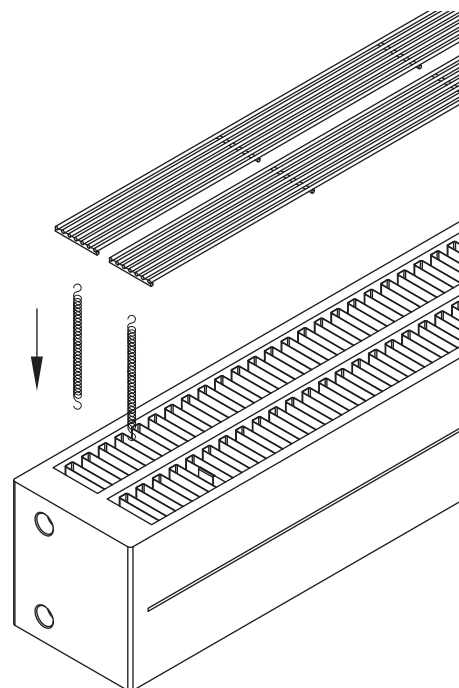
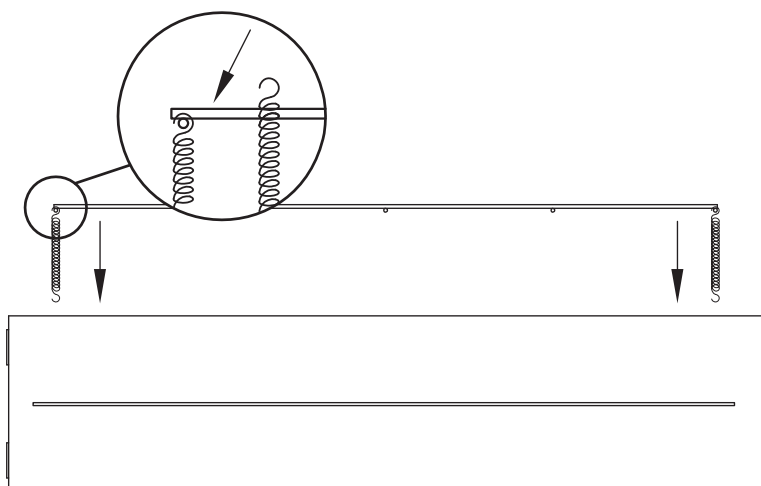
Security clip

For the Zehnder Radiavector, the security clip (galvanised) is delivered as a locking device with each bracket. The security clips are hooked onto the fins and therefore cannot be combined with welded-on grilles. Each of the four radiator heights has a compatible security clip which is fixed to the upper part of the bracket using the fixing material supplied.






Retaining spring

Galvanised retaining springs are delivered with Radiavectors with a standard grille. These springs are for decentralised fixing of the grille on the radiator. The retaining spring is hooked onto the grille and the bottom of the fins and cannot be removed without tools.



Accessories

Details on the specified pages or in the product section

Application	Foot brackets	Individual brackets wall/floor	Accessories, thermostats, miscellaneous
			
	FMORV	WMORV	Thermostats
Zehnder Radiavector	XXX	XXX	XXX

Zehnder Radiavector: Individual brackets for floor mounting (for models without centre connections)

Description	Image	Version	Article no.
<p>Foot bracket FMORV 14 With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211-214 ZRV221-224</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p> <p>Special finish ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p>	<p>169121 169131 169141 169151</p> <p>169129 169139 169149 169159</p>
<p>Foot bracket FMORV 14 With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211/1-214/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p> <p>Special finish ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p>	<p>169201 169211 169221 169231</p> <p>169209 169219 169229 169239</p>
<p>Foot bracket FMORV 14 With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV321-324 ZRV321/1-324/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p> <p>Special finish ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p>	<p>169241 169251 169261 169271</p> <p>169249 169259 169269 169279</p>
<p>Foot bracket FMORV 14 With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV431-434 ZRV431/1-434/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p> <p>Special finish ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p>	<p>169281 169291 169301 169311</p> <p>169289 169299 169309 169319</p>
<p>Foot bracket FMORV 14 With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV541-544 ZRV541/1-544/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p> <p>Special finish ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p>	<p>169321 169331 169341 169351</p> <p>169329 169339 169349 169359</p>

¹⁾Covers: white cover for RAL 9016 radiator surface; grey cover for RAL 7024; black cover for RAL 9005; light grey cover for all other surfaces

Zehnder Radiavector: Individual brackets for floor mounting (for models with centre connections)

Description		Version	Article no.
<p>Foot bracket FMORV 14M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211-214 ZRV221-224</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p> <p>Special finish ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p>	<p>169361 169371 169381 169391</p> <p>169369 169379 169389 169399</p>
<p>Foot bracket FMORV 14M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211/1-214/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p> <p>Special finish ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p>	<p>169161 169171 169181 169191</p> <p>169169 169179 169189 169199</p>
<p>Foot bracket FMORV 14M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV321-324 ZRV321/1-324/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p> <p>Special finish ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p>	<p>169401 169411 169421 169431</p> <p>169409 169419 169429 169439</p>
<p>Foot bracket FMORV 14M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV431-434 ZRV431/1-434/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p> <p>Special finish ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p>	<p>169441 169451 169461 169471</p> <p>169449 169459 169469 169479</p>
<p>Foot bracket FMORV 14M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV541-544 ZRV541/1-544/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p> <p>Special finish ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p>	<p>169481 169491 169501 169511</p> <p>169489 169499 169509 169519</p>

¹⁾Covers: white cover for RAL 9016 radiator surface; grey cover for RAL 7024; black cover for RAL 9005; light grey cover for all other surfaces

Zehnder Radiavector: Individual brackets for floor mounting (for models without centre connections)

Description		Version	Article no.
<p>Foot bracket FMORV 45</p> <p>With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211-214 ZRV221-224</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p> <p>Special finish ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p>	<p>169521 169531 169541 169551</p> <p>169529 169539 169549 169559</p>
<p>Foot bracket FMORV 45</p> <p>With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211/1-214/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p> <p>Special finish ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p>	<p>169601 169611 169621 169631</p> <p>169609 169619 169629 169639</p>
<p>Foot bracket FMORV 45</p> <p>With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV321-324 ZRV321/1-324/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p> <p>Special finish ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p>	<p>169641 169651 169661 169671</p> <p>169649 169659 169669 169679</p>
<p>Foot bracket FMORV 45</p> <p>With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV431-434 ZRV431/1-434/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p> <p>Special finish ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p>	<p>169681 169691 169701 169711</p> <p>169689 169699 169709 169719</p>
<p>Foot bracket FMORV 45</p> <p>With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV541-544 ZRV541/1-544/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p> <p>Special finish ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p>	<p>169721 169731 169741 169751</p> <p>169729 169739 169749 169759</p>

¹⁾Covers: white cover for RAL 9016 radiator surface; grey cover for RAL 7024; black cover for RAL 9005; light grey cover for all other surfaces

Zehnder Radiavector: Individual brackets for floor mounting (for models with centre connections)

Description	Image	Version	Article no.
<p>Foot bracket FMORV 45M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211-214 ZRV221-224</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p> <p>Special finish ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p>	<p>169761 169771 169781 169791</p> <p>169769 169779 169789 169799</p>
<p>Foot bracket FMORV 45M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV211/1-214/1</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p> <p>Special finish ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p>	<p>169561 169571 169581 169591</p> <p>169569 169579 169589 169599</p>
<p>Foot bracket FMORV 45M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV321-324 ZRV321/1-324/1</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p> <p>Special finish ZRV321, 321/1 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p>	<p>169801 169811 169821 169831</p> <p>169809 169819 169829 169839</p>
<p>Foot bracket FMORV 45M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV431-434 ZRV431/1-434/1</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p> <p>Special finish ZRV431, 431/1 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p>	<p>169841 169851 169861 169871</p> <p>169849 169859 169869 169879</p>
<p>Foot bracket FMORV 45M With footplate for tightening, security clip and standard cover¹⁾</p> <p>For Radiavector models: ZRV541-544 ZRV541/1-544/1</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p> <p>Special finish ZRV541, 541/1 ZRV542, 542/1 ZRV543, 543/1 ZRV544, 544/1</p>	<p>169881 169891 169901 169911</p> <p>169889 169899 169909 169919</p>

¹⁾Covers: white cover for RAL 9016 radiator surface; grey cover for RAL 7024; black cover for RAL 9005; light grey cover for all other surfaces

Zehnder Radiavector: Individual brackets for wall mounting (for models without centre connections)

Description	Image	Version	Article no.
<p>Wall bracket WMORV Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV211-214 ZRV221-224</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p> <p>Special finish ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p>	<p>949081 949091 949101 949111</p> <p>949089 949099 949109 949119</p>
<p>Wall bracket WMORV Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV211/1-214/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p> <p>Special finish ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p>	<p>949121 949131 949141 949151</p> <p>949129 949139 949149 949159</p>
<p>Wall bracket WMORV Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV321-324</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV321 ZRV322 ZRV323 ZRV324</p> <p>Special finish ZRV321 ZRV322 ZRV323 ZRV324</p>	<p>949161 949171 949181 949191</p> <p>949169 949179 949189 949199</p>
<p>Wall bracket WMORV Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV321/1-324/1 ZRV431-434</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV321/1, 431 ZRV322/1, 432 ZRV323/1, 433 ZRV324/1, 434</p> <p>Special finish ZRV321/1, 431 ZRV322/1, 432 ZRV323/1, 433 ZRV324/1, 434</p>	<p>949201 949211 949221 949231</p> <p>949209 949219 949229 949239</p>
<p>Wall bracket WMORV Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV431/1-434/1 ZRV541-544</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV431/1, 541 ZRV432/1, 542 ZRV433/1, 543 ZRV434/1, 544</p> <p>Special finish ZRV431/1, 541 ZRV432/1, 542 ZRV433/1, 543 ZRV434/1, 544</p>	<p>949281 949291 949301 949311</p> <p>949289 949299 949309 949319</p>
<p>Wall bracket WMORV Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV541/1-544/1</p> <p>Application: Zehnder Radiavector (all models without centre connections)</p>		<p>RAL 9016 ZRV541/1 ZRV542/1 ZRV543/1 ZRV544/1</p> <p>Special finish ZRV541/1 ZRV542/1 ZRV543/1 ZRV544/1</p>	<p>949361 949371 949381 949391</p> <p>949369 949379 949389 949399</p>

Zehnder Radiavector: Individual brackets for wall mounting (for models with centre connections)

Description		Version	Article no.
<p>Wall bracket WMORV M Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV211-214 ZRV221-224</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p> <p>Special finish ZRV211, 221 ZRV212, 222 ZRV213, 223 ZRV214, 224</p>	<p>949401 949411 949421 949431</p> <p>949409 949419 949429 949439</p>
<p>Wall bracket WMORV M Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV211/1-214/1</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p> <p>Special finish ZRV211/1 ZRV212/1 ZRV213/1 ZRV214/1</p>	<p>949441 949451 949461 949471</p> <p>949449 949459 949469 949479</p>
<p>Wall bracket WMORV M Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV321-324</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV321 ZRV322 ZRV323 ZRV324</p> <p>Special finish ZRV321 ZRV322 ZRV323 ZRV324</p>	<p>949481 949491 949501 949511</p> <p>949489 949499 949509 949519</p>
<p>Wall bracket WMORV M Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV321/1-324/1 ZRV431-434</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV321/1, 431 ZRV322/1, 432 ZRV323/1, 433 ZRV324/1, 434</p> <p>Special finish ZRV321/1, 431 ZRV322/1, 432 ZRV323/1, 433 ZRV324/1, 434</p>	<p>949521 949531 949541 949551</p> <p>949529 949539 949549 949559</p>
<p>Wall bracket WMORV M Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV431/1-434/1 ZRV541-544</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV431/1, 541 ZRV432/1, 542 ZRV433/1, 543 ZRV434/1, 544</p> <p>Special finish ZRV431/1, 541 ZRV432/1, 542 ZRV433/1, 543 ZRV434/1, 544</p>	<p>949601 949611 949621 949631</p> <p>949609 949619 949629 949639</p>
<p>Wall bracket WMORV M Wall bracket for tightening (not adjustable) and security clip.</p> <p>For Radiavector models: ZRV541/1-544/1</p> <p>Application: Zehnder Radiavector (all models with centre connections)</p>		<p>RAL 9016 ZRV541/1 ZRV542/1 ZRV543/1 ZRV544/1</p> <p>Special finish ZRV541/1 ZRV542/1 ZRV543/1 ZRV544/1</p>	<p>949681 949691 949701 949711</p> <p>949689 949699 949709 949719</p>

Zehnder Radiavector: Bench frame

Description		Version	Article no.
<p>Bench frame For height 70 mm incl. security clip</p> <p>For Radiavector models: ZRV321 ZRV321/1</p> <p>Application: Zehnder Radiavector</p>		<p>RAL 9016 ZRV321, 321/1</p> <p>Special finish ZRV321, 321/1</p>	<p>949761</p> <p>949769</p>
<p>Bench frame For height 70 mm incl. security clip</p> <p>For Radiavector models: ZRV431 ZRV431/1</p> <p>Application: Zehnder Radiavector</p>		<p>RAL 9016 ZRV431, 431/1</p> <p>Special finish ZRV431, 431/1</p>	<p>949801</p> <p>949809</p>
<p>Bench frame For height 70 mm incl. security clip</p> <p>For Radiavector models: ZRV541 ZRV541/1</p> <p>Application: Zehnder Radiavector</p>		<p>RAL 9016 ZRV541, 541/1</p> <p>Special finish ZRV541, 541/1</p>	<p>949841</p> <p>949849</p>
<p>Bench frame For heights 140, 210, 280 mm incl. security clip</p> <p>For Radiavector models: ZRV322-324 ZRV322/1-324/1</p> <p>Application: Zehnder Radiavector</p>		<p>RAL 9016 ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p> <p>Special finish ZRV322, 322/1 ZRV323, 323/1 ZRV324, 324/1</p>	<p>949771 949781 949791</p> <p>949779 949789 949799</p>
<p>Bench frame For heights 140, 210, 280 mm incl. security clip</p> <p>For Radiavector models: ZRV432-434 ZRV432/1-434/1</p> <p>Application: Zehnder Radiavector</p>		<p>RAL 9016 ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p> <p>Special finish ZRV432, 432/1 ZRV433, 433/1 ZRV434, 434/1</p>	<p>949811 949821 949831</p> <p>949819 949829 949839</p>

1) Covers: white cover for RAL 9016 radiator surface; grey cover for RAL 7024; black cover for RAL 9005; light grey cover for all other surfaces

Zehnder Radiavector: Miscellaneous

Description		Version	Article no.
<p>Standard cover¹⁾ For footplate 50 x 110 mm Suitable for brackets FMORV14(M)</p> <p>Application: Zehnder Radiavector</p>		Plastic White Light grey Dark grey Black	970071 970099 970079 970089
<p>Cover for FMORV45(M)¹⁾ For square tube 30 x 30 mm and footplate 110 x 110 mm</p> <p>Application: Zehnder Radiavector</p>		Plastic White Light grey Dark grey Black	970031 970059 970039 970049

¹⁾Covers: white cover for RAL 9016 radiator surface; grey cover for RAL 7024; black cover for RAL 9005; light grey cover for all other surfaces

Keyword list

Grille

Grilles can be ordered for various radiators. Detailed information is given alongside the relevant products. See keyword “Reduced output”.

Accessories

A range of accessories are available for various additional uses, such as hanging up towels. For more information, see the section on “Accessories, pages 29-37”.

Connections

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

Antibacterial coating

Especially for use in hygienically sensitive areas. This coating is based on the well-known bacteria-inhibiting and killing effect of silver ions embedded in the painted surface and offers safe and reliable long-term protection against the growth and spread of micro-organisms on radiator surfaces. This coating is completely safe for people to touch.

Tender specification

The tender specification 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. The tender specification can be found and downloaded on page 41 or directly from www.zehnder.co.uk/downloads/rad

Length restrictions

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

Fixings

To ensure that radiators are fixed safely, the weight of the radiator and other aspects must be considered when choosing the right quality and quantity of brackets. 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 etc...

Operating pressure

The maximum permissible operating pressure of a radiator depends on its geometry, the material used and the finishing process. The permissible operating pressure varies according to the product, see table below. Suitable fittings, plugs and 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 Radiavector	6	10

Operating temperature

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

Baffle

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

Ground clearance

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

CE marking

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

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

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

Product/product family	CE - Year
Zehnder Radiavector	CE - 18

Keyword list

Seals

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.

Pressure loss

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

Single pipe system

We recommend using single-tube valves with an adjustable by-pass 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 baffle plates. 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.

Inlet and outlet resistance

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

Colours

Bespoke 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. Surcharge applies for non-standard RAL colours. All other paintable colours are available for a surcharge on request. Different surface structures and visual colour differences can also occur at a later point in time. 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. Textured coatings (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"

Wet rooms

See "Surface protection".

Warranty

The warranty period for the products shown in this price list is two years. Additional information is provided in the General Sales and Delivery Conditions.

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.

Clear lacquer version (Technoline)

See "Colours".

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".

Corrosion protection

See "Finish" and "Surface protection".

Connection

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

Finish

Ready-painted radiators have a two-coat finish (according to DIN 55900, Part 1 and 2, comprising primer and top coat, provided information to the contrary is not given for the standard scope of delivery for the radiator in question).

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. 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, convector fins are used.

Storage

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

Guide plate

See "Baffle".

Scope of delivery

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

Dimensions

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

Keyword list

Reduced output

The thermal output can be affected depending on where the radiator is installed. The nominal heat output is measured in an unobstructed setting with a ground clearance of 110 mm and a wall clearance of 50 mm. Any reduction in these clearances, as well as installation in alcoves and the application of covers and grilles can, depending on the model, lead to a reduction in thermal output. In the case of grilles, this reduction can differ between 5 and 12%, depending on the radiator.

Minimum water flow

If the flow of water through a radiator is heavily reduced, the thermal 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 $q_{m \text{ min}}$ in % of the standard water flow $q_{m \text{ s}}$ 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 achieved through additional installations, even at lower flow rates, as shown in the following table. More information is available on request.

Nominal heat output

The nominal heat 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 nominal heat output according to EN 12831.

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

- 70/55/20 °C
- 55/45/20 °C

Legend

Icon	Unit	Description
H	mm	Height
L	mm	Length
T	mm	Depth
H Lam.	mm	Height of fins
N	mm	Connection centre
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	Heating Delta T t _m - t _r
Φ	W=(J/s)	Thermal output
Φ _s	W	Nominal flow rate
Φ _L	W	Nominal flow rate 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)	Flow rate
q _{ms}	kg/h/(kg/s)	Nominal flow rate
v	m/s	Fan speed
Δp	kPa	Pressure loss, Pressure drop
ζ	-	Coefficient of resistance
ln	-	Natural logarithm

Tender specification

Description: Zehnder Radiavector

Radiator as convector in fully welded version, with 2 to 5 water-bearing profile tubes arranged behind each other and 1 to 4 water-bearing profile tubes arranged on top of each other, 70 x 11 mm, for WVO version with integrated thermal radiation shield;

Versions with grilles are available at an additional cost. Primed and painted with powder coating in colour RAL 9016.

Thermal output to EN 442; with CE marking.

Connections at front 4 x 1/2" female thread for opposite end connection, radiator shrink-wrapped in foil and packaged with edge protection and protective cardboard.

Operating pressure:	max. 6 bar
Operating temperature:	max. 110 °C

