

# Zehnder Charleston



$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		1100									
Model		2110		3110		4110		5110		6110	
Depth	mm	62		100		136		173		210	
Exponent	n	1,25		1,28		1,29		1,31		1,32	
Max. number of elements		22		22		22		22		22	
Price/element	€	21,54		27,87		36,31		44,30		52,69	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	299	86,16	412	111,48	540	145,24	668	177,20	792	210,76
5	230	374	107,70	515	139,35	675	181,55	835	221,50	990	263,45
6	276	449	129,24	618	167,22	810	217,86	1002	265,80	1188	316,14
7	322	523	150,78	721	195,09	945	254,17	1169	310,10	1386	368,83
8	368	598	172,32	824	222,96	1080	290,48	1336	354,40	1584	421,52
9	414	673	193,86	927	250,83	1215	326,79	1503	398,70	1782	474,21
10	460	747	215,40	1030	278,70	1350	363,10	1670	443,00	1980	526,90
11	506	822	236,94	1133	306,57	1485	399,41	1837	487,30	2178	579,59
12	552	897	258,48	1236	334,44	1620	435,72	2004	531,60	2376	632,28
13	598	972	280,02	1339	362,31	1755	472,03	2171	575,90	2574	684,97
14	644	1046	301,56	1442	390,18	1890	508,34	2338	620,20	2772	737,66
15	690	1121	323,10	1545	418,05	2025	544,65	2505	664,50	2970	790,35
16	736	1196	344,64	1648	445,92	2160	580,96	2672	708,80	3168	843,04
17	782	1270	366,18	1751	473,79	2295	617,27	2839	753,10	3366	895,73
18	828	1345	387,72	1854	501,66	2430	653,58	3006	797,40	3564	948,42
19	874	1420	409,26	1957	529,53	2565	689,89	3173	841,70	3762	1001,11
20	920	1494	430,80	2060	557,40	2700	726,20	3340	886,00	3960	1053,80
21	966	1569	452,34	2163	585,27	2835	762,51	3507	930,30	4158	1106,49
22	1012	1644	473,88	2266	613,14	2970	798,82	3674	974,60	4356	1159,18
23	1058	1719	495,42	2369	641,01	3105	835,13	3841	1018,90	4554	1211,87
24	1104	1793	516,96	2472	668,88	3240	871,44	4008	1063,20	4752	1264,56
25	1150	1868	538,50	2575	696,75	3375	907,75	4175	1107,50	4950	1317,25
26	1196	1943	560,04	2678	724,62	3510	944,06	4342	1151,80	5148	1369,94
27	1242	2017	581,58	2781	752,49	3645	980,37	4509	1196,10	5346	1422,63
28	1288	2092	603,12	2884	780,36	3780	1016,68	4676	1240,40	5544	1475,32
29	1334	2167	624,66	2987	808,23	3915	1052,99	4843	1284,70	5742	1528,01
30	1380	2241	646,20	3090	836,10	4050	1089,30	5010	1329,00	5940	1580,70
31	1426	2316	667,74	3193	863,97	4185	1125,61	5177	1373,30	6138	1633,39
32	1472	2391	689,28	3296	891,84	4320	1161,92	5344	1417,60	6336	1686,08
33	1518	2466	710,82	3399	919,71	4455	1198,23	5511	1461,90	6534	1738,77
34	1564	2540	732,36	3502	947,58	4590	1234,54	5678	1506,20	6732	1791,46
35	1610	2615	753,90	3605	975,45	4725	1270,85	5845	1550,50	6930	1844,15
36	1656	2690	775,44	3708	1003,32	4860	1307,16	6012	1594,80	7128	1896,84
37	1702	2764	796,98	3811	1031,19	4995	1343,47	6179	1639,10	7326	1949,53
38	1748	2839	818,52	3914	1059,06	5130	1379,78	6346	1683,40	7524	2002,22
39	1794	2914	840,06	4017	1086,93	5265	1416,09	6513	1727,70	7722	2054,91
40	1840	2988	861,60	4120	1114,80	5400	1452,40	6680	1772,00	7920	2107,60

Surcharge for Completto, valve at top, connections V001/V002 €: 148,10

Surcharge for Completto, valve at top, connections V007/V008 €: 196,80

Surcharge for Completto, valve at bottom, connections V003/V004 €: 209,48

Warning: Weight over 100 kg

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

$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		1200									
Model		2120		3120		4120		5120		6120	
Depth	mm	62		100		136		173		210	
Exponent	n	1,26		1,29		1,30		1,31		1,32	
Max. number of elements		22		22		22		22		22	
Price/element	€	23,17		32,55		40,99		51,26		59,73	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	331	92,68	460	130,20	588	163,96	716	205,04	840	238,92
5	230	414	115,85	575	162,75	735	204,95	895	256,30	1050	298,65
6	276	497	139,02	690	195,30	882	245,94	1074	307,56	1260	358,38
7	322	579	162,19	805	227,85	1029	286,93	1253	358,82	1470	418,11
8	368	662	185,36	920	260,40	1176	327,92	1432	410,08	1680	477,84
9	414	745	208,53	1035	292,95	1323	368,91	1611	461,34	1890	537,57
10	460	827	231,70	1150	325,50	1470	409,90	1790	512,60	2100	597,30
11	506	910	254,87	1265	358,05	1617	450,89	1969	563,86	2310	657,03
12	552	993	278,04	1380	390,60	1764	491,88	2148	615,12	2520	716,76
13	598	1076	301,21	1495	423,15	1911	532,87	2327	666,38	2730	776,49
14	644	1158	324,38	1610	455,70	2058	573,86	2506	717,64	2940	836,22
15	690	1241	347,55	1725	488,25	2205	614,85	2685	768,90	3150	895,95
16	736	1324	370,72	1840	520,80	2352	655,84	2864	820,16	3360	955,68
17	782	1406	393,89	1955	553,35	2499	696,83	3043	871,42	3570	1015,41
18	828	1489	417,06	2070	585,90	2646	737,82	3222	922,68	3780	1075,14
19	874	1572	440,23	2185	618,45	2793	778,81	3401	973,94	3990	1134,87
20	920	1654	463,40	2300	651,00	2940	819,80	3580	1025,20	4200	1194,60
21	966	1737	486,57	2415	683,55	3087	860,79	3759	1076,46	4410	1254,33
22	1012	1820	509,74	2530	716,10	3234	901,78	3938	1127,72	4620	1314,06
23	1058	1903	532,91	2645	748,65	3381	942,77	4117	1178,98	4830	1373,79
24	1104	1985	556,08	2760	781,20	3528	983,76	4296	1230,24	5040	1433,52
25	1150	2068	579,25	2875	813,75	3675	1024,75	4475	1281,50	5250	1493,25
26	1196	2151	602,42	2990	846,30	3822	1065,74	4654	1332,76	5460	1552,98
27	1242	2233	625,59	3105	878,85	3969	1106,73	4833	1384,02	5670	1612,71
28	1288	2316	648,76	3220	911,40	4116	1147,72	5012	1435,28	5880	1672,44
29	1334	2399	671,93	3335	943,95	4263	1188,71	5191	1486,54	6090	1732,17
30	1380	2481	695,10	3450	976,50	4410	1229,70	5370	1537,80	6300	1791,90
31	1426	2564	718,27	3565	1009,05	4557	1270,69	5549	1589,06	6510	1851,63
32	1472	2647	741,44	3680	1041,60	4704	1311,68	5728	1640,32	6720	1911,36
33	1518	2730	764,61	3795	1074,15	4851	1352,67	5907	1691,58	6930	1971,09
34	1564	2812	787,78	3910	1106,70	4998	1393,66	6086	1742,84	7140	2030,82
35	1610	2895	810,95	4025	1139,25	5145	1434,65	6265	1794,10	7350	2090,55
36	1656	2978	834,12	4140	1171,80	5292	1475,64	6444	1845,36	7560	2150,28
37	1702	3060	857,29	4255	1204,35	5439	1516,63	6623	1896,62	7770	2210,01
38	1748	3143	880,46	4370	1236,90	5586	1557,62	6802	1947,88	7980	2269,74
39	1794	3226	903,63	4485	1269,45	5733	1598,61	6981	1999,14	8190	2329,47
40	1840	3308	926,80	4600	1302,00	5880	1639,60	7160	2050,40	8400	2389,20

Surcharge for Completo, valve at top, connections V001/V002 €: 148,10

Surcharge for Completo, valve at top, connections V007/V008 €: 196,80

Surcharge for Completo, valve at bottom, connections V003/V004 €: 209,48

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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 Charleston



$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		1500									
Model		2150		3150		4150		5150		6150	
Depth	mm	62		100		136		173		210	
Exponent	n	1,28		1,31		1,31		1,32		1,32	
Max. number of elements		22		22		22		22		22	
Price/element	€	29,49		42,14		55,08		68,83		82,01	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	416	117,96	560	168,56	720	220,32	876	275,32	1024	328,04
5	230	520	147,45	700	210,70	900	275,40	1095	344,15	1280	410,05
6	276	624	176,94	840	252,84	1080	330,48	1314	412,98	1536	492,06
7	322	728	206,43	980	294,98	1260	385,56	1533	481,81	1792	574,07
8	368	832	235,92	1120	337,12	1440	440,64	1752	550,64	2048	656,08
9	414	936	265,41	1260	379,26	1620	495,72	1971	619,47	2304	738,09
10	460	1040	294,90	1400	421,40	1800	550,80	2190	688,30	2560	820,10
11	506	1144	324,39	1540	463,54	1980	605,88	2409	757,13	2816	902,11
12	552	1248	353,88	1680	505,68	2160	660,96	2628	825,96	3072	984,12
13	598	1352	383,37	1820	547,82	2340	716,04	2847	894,79	3328	1066,13
14	644	1456	412,86	1960	589,96	2520	771,12	3066	963,62	3584	1148,14
15	690	1560	442,35	2100	632,10	2700	826,20	3285	1032,45	3840	1230,15
16	736	1664	471,84	2240	674,24	2880	881,28	3504	1101,28	4096	1312,16
17	782	1768	501,33	2380	716,38	3060	936,36	3723	1170,11	4352	1394,17
18	828	1872	530,82	2520	758,52	3240	991,44	3942	1238,94	4608	1476,18
19	874	1976	560,31	2660	800,66	3420	1046,52	4161	1307,77	4864	1558,19
20	920	2080	589,80	2800	842,80	3600	1101,60	4380	1376,60	5120	1640,20
21	966	2184	619,29	2940	884,94	3780	1156,68	4599	1445,43	5376	1722,21
22	1012	2288	648,78	3080	927,08	3960	1211,76	4818	1514,26	5632	1804,22
23	1058	2392	678,27	3220	969,22	4140	1266,84	5037	1583,09	5888	1886,23
24	1104	2496	707,76	3360	1011,36	4320	1321,92	5256	1651,92	6144	1968,24
25	1150	2600	737,25	3500	1053,50	4500	1377,00	5475	1720,75	6400	2050,25
26	1196	2704	766,74	3640	1095,64	4680	1432,08	5694	1789,58	6656	2132,26
27	1242	2808	796,23	3780	1137,78	4860	1487,16	5913	1858,41	6912	2214,27
28	1288	2912	825,72	3920	1179,92	5040	1542,24	6132	1927,24	7168	2296,28
29	1334	3016	855,21	4060	1222,06	5220	1597,32	6351	1996,07	7424	2378,29
30	1380	3120	884,70	4200	1264,20	5400	1652,40	6570	2064,90	7680	2460,30
31	1426	3224	914,19	4340	1306,34	5580	1707,48	6789	2133,73	7936	2542,31
32	1472	3328	943,68	4480	1348,48	5760	1762,56	7008	2202,56	8192	2624,32
33	1518	3432	973,17	4620	1390,62	5940	1817,64	7227	2271,39	8448	2706,33
34	1564	3536	1002,66	4760	1432,76	6120	1872,72	7446	2340,22	8704	2788,34
35	1610	3640	1032,15	4900	1474,90	6300	1927,80	7665	2409,05	8960	2870,35
36	1656	3744	1061,64	5040	1517,04	6480	1982,88	7884	2477,88	9216	2952,36
37	1702	3848	1091,13	5180	1559,18	6660	2037,96	8103	2546,71	9472	3034,37
38	1748	3952	1120,62	5320	1601,32	6840	2093,04	8322	2615,54	9728	3116,38
39	1794	4056	1150,11	5460	1643,46	7020	2148,12	8541	2684,37	9984	3198,39
40	1840	4160	1179,60	5600	1685,60	7200	2203,20	8760	2753,20	10240	3280,40

Surcharge for Completto, valve at top, connections V001/V002 €: 148,10

Surcharge for Completto, valve at top, connections V007/V008 €: 196,80



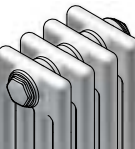
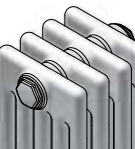
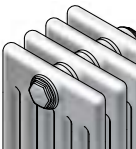
Surcharge for Completto, valve at bottom, connections V003/V004 €: 209,48

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$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		1800											
													
Model		2180		3180		4180		5180		6180			
Depth	mm	62		100		136		173		210			
Exponent	n	1,31		1,33		1,33		1,32		1,33			
Max. number of elements		22		22		22		22		22			
Price/element	€	34,86		52,02		66,13		81,18		96,40			
Length		$\Phi_s$		Price		$\Phi_s$		Price		$\Phi_s$		Price	
Elements	mm	W	€	W	€	W	€	W	€	W	€	W	€
4	184	496	139,44	664	208,08	852	264,52	1036	324,72	1212	385,60		
5	230	620	174,30	830	260,10	1065	330,65	1295	405,90	1515	482,00		
6	276	744	209,16	996	312,12	1278	396,78	1554	487,08	1818	578,40		
7	322	868	244,02	1162	364,14	1491	462,91	1813	568,26	2121	674,80		
8	368	992	278,88	1328	416,16	1704	529,04	2072	649,44	2424	771,20		
9	414	1116	313,74	1494	468,18	1917	595,17	2331	730,62	2727	867,60		
10	460	1240	348,60	1660	520,20	2130	661,30	2590	811,80	3030	964,00		
11	506	1364	383,46	1826	572,22	2343	727,43	2849	892,98	3333	1060,40		
12	552	1488	418,32	1992	624,24	2556	793,56	3108	974,16	3636	1156,80		
13	598	1612	453,18	2158	676,26	2769	859,69	3367	1055,34	3939	1253,20		
14	644	1736	488,04	2324	728,28	2982	925,82	3626	1136,52	4242	1349,60		
15	690	1860	522,90	2490	780,30	3195	991,95	3885	1217,70	4545	1446,00		
16	736	1984	557,76	2656	832,32	3408	1058,08	4144	1298,88	4848	1542,40		
17	782	2108	592,62	2822	884,34	3621	1124,21	4403	1380,06	5151	1638,80		
18	828	2232	627,48	2988	936,36	3834	1190,34	4662	1461,24	5454	1735,20		
19	874	2356	662,34	3154	988,38	4047	1256,47	4921	1542,42	5757	1831,60		
20	920	2480	697,20	3320	1040,40	4260	1322,60	5180	1623,60	6060	1928,00		
21	966	2604	732,06	3486	1092,42	4473	1388,73	5439	1704,78	6363	2024,40		
22	1012	2728	766,92	3652	1144,44	4686	1454,86	5698	1785,96	6666	2120,80		
23	1058	2852	801,78	3818	1196,46	4899	1520,99	5957	1867,14	6969	2217,20		
24	1104	2976	836,64	3984	1248,48	5112	1587,12	6216	1948,32	7272	2313,60		
25	1150	3100	871,50	4150	1300,50	5325	1653,25	6475	2029,50	7575	2410,00		
26	1196	3224	906,36	4316	1352,52	5538	1719,38	6734	2110,68	7878	2506,40		
27	1242	3348	941,22	4482	1404,54	5751	1785,51	6993	2191,86	8181	2602,80		
28	1288	3472	976,08	4648	1456,56	5964	1851,64	7252	2273,04	8484	2699,20		
29	1334	3596	1010,94	4814	1508,58	6177	1917,77	7511	2354,22	8787	2795,60		
30	1380	3720	1045,80	4980	1560,60	6390	1983,90	7770	2435,40	9090	2892,00		
31	1426	3844	1080,66	5146	1612,62	6603	2050,03	8029	2516,58	9393	2988,40		
32	1472	3968	1115,52	5312	1664,64	6816	2116,16	8288	2597,76	9696	3084,80		
33	1518	4092	1150,38	5478	1716,66	7029	2182,29	8547	2678,94	9999	3181,20		
34	1564	4216	1185,24	5644	1768,68	7242	2248,42	8806	2760,12	10302	3277,60		
35	1610	4340	1220,10	5810	1820,70	7455	2314,55	9065	2841,30	10605	3374,00		
36	1656	4464	1254,96	5976	1872,72	7668	2380,68	9324	2922,48	10908	3470,40		
37	1702	4588	1289,82	6142	1924,74	7881	2446,81	9583	3003,66	11211	3566,80		
38	1748	4712	1324,68	6308	1976,76	8094	2512,94	9842	3084,84	11514	3663,20		
39	1794	4836	1359,54	6474	2028,78	8307	2579,07	10101	3166,02	11817	3759,60		
40	1840	4960	1394,40	6640	2080,80	8520	2645,20	10360	3247,20	12120	3856,00		

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Warning: Weight over 100 kg

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

$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		2000									
Model		2200		3200		4200		5200		6200	
Depth	mm	62		100		136		173		210	
Exponent	n	1,31		1,33		1,32		1,32		1,32	
Max. number of elements		22		22		22		22		22	
Price/element	€	39,38		56,25		73,89		90,58		107,29	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	552	157,52	732	225,00	936	295,56	1140	362,32	1336	429,16
5	230	690	196,90	915	281,25	1170	369,45	1425	452,90	1670	536,45
6	276	828	236,28	1098	337,50	1404	443,34	1710	543,48	2004	643,74
7	322	966	275,66	1281	393,75	1638	517,23	1995	634,06	2338	751,03
8	368	1104	315,04	1464	450,00	1872	591,12	2280	724,64	2672	858,32
9	414	1242	354,42	1647	506,25	2106	665,01	2565	815,22	3006	965,61
10	460	1380	393,80	1830	562,50	2340	738,90	2850	905,80	3340	1072,90
11	506	1518	433,18	2013	618,75	2574	812,79	3135	996,38	3674	1180,19
12	552	1656	472,56	2196	675,00	2808	886,68	3420	1086,96	4008	1287,48
13	598	1794	511,94	2379	731,25	3042	960,57	3705	1177,54	4342	1394,77
14	644	1932	551,32	2562	787,50	3276	1034,46	3990	1268,12	4676	1502,06
15	690	2070	590,70	2745	843,75	3510	1108,35	4275	1358,70	5010	1609,35
16	736	2208	630,08	2928	900,00	3744	1182,24	4560	1449,28	5344	1716,64
17	782	2346	669,46	3111	956,25	3978	1256,13	4845	1539,86	5678	1823,93
18	828	2484	708,84	3294	1012,50	4212	1330,02	5130	1630,44	6012	1931,22
19	874	2622	748,22	3477	1068,75	4446	1403,91	5415	1721,02	6346	2038,51
20	920	2760	787,60	3660	1125,00	4680	1477,80	5700	1811,60	6680	2145,80
21	966	2898	826,98	3843	1181,25	4914	1551,69	5985	1902,18	7014	2253,09
22	1012	3036	866,36	4026	1237,50	5148	1625,58	6270	1992,76	7348	2360,38
23	1058	3174	905,74	4209	1293,75	5382	1699,47	6555	2083,34	7682	2467,67
24	1104	3312	945,12	4392	1350,00	5616	1773,36	6840	2173,92	8016	2574,96
25	1150	3450	984,50	4575	1406,25	5850	1847,25	7125	2264,50	8350	2682,25
26	1196	3588	1023,88	4758	1462,50	6084	1921,14	7410	2355,08	8684	2789,54
27	1242	3726	1063,26	4941	1518,75	6318	1995,03	7695	2445,66	9018	2896,83
28	1288	3864	1102,64	5124	1575,00	6552	2068,92	7980	2536,24	9352	3004,12
29	1334	4002	1142,02	5307	1631,25	6786	2142,81	8265	2626,82	9686	3111,41
30	1380	4140	1181,40	5490	1687,50	7020	2216,70	8550	2717,40	10020	3218,70
31	1426	4278	1220,78	5673	1743,75	7254	2290,59	8835	2807,98	10354	3325,99
32	1472	4416	1260,16	5856	1800,00	7488	2364,48	9120	2898,56	10688	3433,28
33	1518	4554	1299,54	6039	1856,25	7722	2438,37	9405	2989,14	11022	3540,57
34	1564	4692	1338,92	6222	1912,50	7956	2512,26	9690	3079,72	11356	3647,86
35	1610	4830	1378,30	6405	1968,75	8190	2586,15	9975	3170,30	11690	3755,15
36	1656	4968	1417,68	6588	2025,00	8424	2660,04	10260	3260,88	12024	3862,44
37	1702	5106	1457,06	6771	2081,25	8658	2733,93	10545	3351,46	12358	3969,73
38	1748	5244	1496,44	6954	2137,50	8892	2807,82	10830	3442,04	12692	4077,02
39	1794	5382	1535,82	7137	2193,75	9126	2881,71	11115	3532,62	13026	4184,31
40	1840	5520	1575,20	7320	2250,00	9360	2955,60	11400	3623,20	13360	4291,60

Surcharge for Completto, valve at top, connections V001/V002 €: 148,10

Surcharge for Completto, valve at top, connections V007/V008 €: 196,80

Surcharge for Completto, valve at bottom, connections V003/V004 €: 209,48

Warning: Weight over 100 kg

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

$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		2200									
Model		2220		3220		4220		5220		6220	
Depth	mm	62		100		136		173		210	
Exponent	n	1,31		1,32		1,32		1,32		1,32	
Max. number of elements		22		22		22		22		17	
Price/element	€	43,68		63,30		82,19		100,65		119,47	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	604	174,72	800	253,20	1024	328,76	1248	402,60	1460	477,88
5	230	755	218,40	1000	316,50	1280	410,95	1560	503,25	1825	597,35
6	276	906	262,08	1200	379,80	1536	493,14	1872	603,90	2190	716,82
7	322	1057	305,76	1400	443,10	1792	575,33	2184	704,55	2555	836,29
8	368	1208	349,44	1600	506,40	2048	657,52	2496	805,20	2920	955,76
9	414	1359	393,12	1800	569,70	2304	739,71	2808	905,85	3285	1075,23
10	460	1510	436,80	2000	633,00	2560	821,90	3120	1006,50	3650	1194,70
11	506	1661	480,48	2200	696,30	2816	904,09	3432	1107,15	4015	1314,17
12	552	1812	524,16	2400	759,60	3072	986,28	3744	1207,80	4380	1433,64
13	598	1963	567,84	2600	822,90	3328	1068,47	4056	1308,45	4745	1553,11
14	644	2114	611,52	2800	886,20	3584	1150,66	4368	1409,10	5110	1672,58
15	690	2265	655,20	3000	949,50	3840	1232,85	4680	1509,75	5475	1792,05
16	736	2416	698,88	3200	1012,80	4096	1315,04	4992	1610,40	5840	1911,52
17	782	2567	742,56	3400	1076,10	4352	1397,23	5304	1711,05	6205	2030,99
18	828	2718	786,24	3600	1139,40	4608	1479,42	5616	1811,70	6570	2150,46
19	874	2869	829,92	3800	1202,70	4864	1561,61	5928	1912,35	6935	2269,93
20	920	3020	873,60	4000	1266,00	5120	1643,80	6240	2013,00	7300	2389,40
21	966	3171	917,28	4200	1329,30	5376	1725,99	6552	2113,65	7665	2508,87
22	1012	3322	960,96	4400	1392,60	5632	1808,18	6864	2214,30	8030	2628,34
23	1058	3473	1004,64	4600	1455,90	5888	1890,37	7176	2314,95	8395	2747,81
24	1104	3624	1048,32	4800	1519,20	6144	1972,56	7488	2415,60	8760	2867,28
25	1150	3775	1092,00	5000	1582,50	6400	2054,75	7800	2516,25	9125	2986,75
26	1196	3926	1135,68	5200	1645,80	6656	2136,94	8112	2616,90	9490	3106,22
27	1242	4077	1179,36	5400	1709,10	6912	2219,13	8424	2717,55	9855	3225,69
28	1288	4228	1223,04	5600	1772,40	7168	2301,32	8736	2818,20	10220	3345,16
29	1334	4379	1266,72	5800	1835,70	7424	2383,51	9048	2918,85	10585	3464,63
30	1380	4530	1310,40	6000	1899,00	7680	2465,70	9360	3019,50	10950	3584,10
31	1426	4681	1354,08	6200	1962,30	7936	2547,89	9672	3120,15	11315	3703,57
32	1472	4832	1397,76	6400	2025,60	8192	2630,08	9984	3220,80	11680	3823,04
33	1518	4983	1441,44	6600	2088,90	8448	2712,27	10296	3321,45	12045	3942,51
34	1564	5134	1485,12	6800	2152,20	8704	2794,46	10608	3422,10	12410	4061,98
35	1610	5285	1528,80	7000	2215,50	8960	2876,65	10920	3522,75	12775	4181,45
36	1656	5436	1572,48	7200	2278,80	9216	2958,84	11232	3623,40	13140	4300,92
37	1702	5587	1616,16	7400	2342,10	9472	3041,03	11544	3724,05	13505	4420,39
38	1748	5738	1659,84	7600	2405,40	9728	3123,22	11856	3824,70	13870	4539,86
39	1794	5889	1703,52	7800	2468,70	9984	3205,41	12168	3925,35	14235	4659,33
40	1840	6040	1747,20	8000	2532,00	10240	3287,60	12480	4026,00	14600	4778,80

Surcharge for Completo, valve at top, connections V001/V002 €: 148,10

Surcharge for Completo, valve at top, connections V007/V008 €: 196,80

Surcharge for Completo, valve at bottom, connections V003/V004 €: 209,48

Warning: Weight over 100 kg

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 Charleston



$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		2500									
Model		2250		3250		4250		5250		6250	
Depth	mm	62		100		136		173		210	
Exponent	n	1,30		1,32		1,31		1,31		1,32	
Max. number of elements		22		22		22		22		17	
Price/element	€	48,78		71,61		92,20		112,62		134,21	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	684	195,12	900	286,44	1156	368,80	1408	450,48	1648	536,84
5	230	855	243,90	1125	358,05	1445	461,00	1760	563,10	2060	671,05
6	276	1026	292,68	1350	429,66	1734	553,20	2112	675,72	2472	805,26
7	322	1197	341,46	1575	501,27	2023	645,40	2464	788,34	2884	939,47
8	368	1368	390,24	1800	572,88	2312	737,60	2816	900,96	3296	1073,68
9	414	1539	439,02	2025	644,49	2601	829,80	3168	1013,58	3708	1207,89
10	460	1710	487,80	2250	716,10	2890	922,00	3520	1126,20	4120	1342,10
11	506	1881	536,58	2475	787,71	3179	1014,20	3872	1238,82	4532	1476,31
12	552	2052	585,36	2700	859,32	3468	1106,40	4224	1351,44	4944	1610,52
13	598	2223	634,14	2925	930,93	3757	1198,60	4576	1464,06	5356	1744,73
14	644	2394	682,92	3150	1002,54	4046	1290,80	4928	1576,68	5768	1878,94
15	690	2565	731,70	3375	1074,15	4335	1383,00	5280	1689,30	6180	2013,15
16	736	2736	780,48	3600	1145,76	4624	1475,20	5632	1801,92	6592	2147,36
17	782	2907	829,26	3825	1217,37	4913	1567,40	5984	1914,54	7004	2281,57
18	828	3078	878,04	4050	1288,98	5202	1659,60	6336	2027,16	7416	2415,78
19	874	3249	926,82	4275	1360,59	5491	1751,80	6688	2139,78	7828	2549,99
20	920	3420	975,60	4500	1432,20	5780	1844,00	7040	2252,40	8240	2684,20
21	966	3591	1024,38	4725	1503,81	6069	1936,20	7392	2365,02	8652	2818,41
22	1012	3762	1073,16	4950	1575,42	6358	2028,40	7744	2477,64	9064	2952,62
23	1058	3933	1121,94	5175	1647,03	6647	2120,60	8096	2590,26	9476	3086,83
24	1104	4104	1170,72	5400	1718,64	6936	2212,80	8448	2702,88	9888	3221,04
25	1150	4275	1219,50	5625	1790,25	7225	2305,00	8800	2815,50	10300	3355,25
26	1196	4446	1268,28	5850	1861,86	7514	2397,20	9152	2928,12	10712	3489,46
27	1242	4617	1317,06	6075	1933,47	7803	2489,40	9504	3040,74	11124	3623,67
28	1288	4788	1365,84	6300	2005,08	8092	2581,60	9856	3153,36	11536	3757,88
29	1334	4959	1414,62	6525	2076,69	8381	2673,80	10208	3265,98	11948	3892,09
30	1380	5130	1463,40	6750	2148,30	8670	2766,00	10560	3378,60	12360	4026,30
31	1426	5301	1512,18	6975	2219,91	8959	2858,20	10912	3491,22	12772	4160,51
32	1472	5472	1560,96	7200	2291,52	9248	2950,40	11264	3603,84	13184	4294,72
33	1518	5643	1609,74	7425	2363,13	9537	3042,60	11616	3716,46	13596	4428,93
34	1564	5814	1658,52	7650	2434,74	9826	3134,80	11968	3829,08	14008	4563,14
35	1610	5985	1707,30	7875	2506,35	10115	3227,00	12320	3941,70	14420	4697,35
36	1656	6156	1756,08	8100	2577,96	10404	3319,20	12672	4054,32	14832	4831,56
37	1702	6327	1804,86	8325	2649,57	10693	3411,40	13024	4166,94	15244	4965,77
38	1748	6498	1853,64	8550	2721,18	10982	3503,60	13376	4279,56	15656	5099,98
39	1794	6669	1902,42	8775	2792,79	11271	3595,80	13728	4392,18	16068	5234,19
40	1840	6840	1951,20	9000	2864,40	11560	3688,00	14080	4504,80	16480	5368,40

Surcharge for Completto, valve at top, connections V001/V002 €: 148,10

Surcharge for Completto, valve at top, connections V007/V008 €: 196,80

Surcharge for Completto, valve at bottom, connections V003/V004 €: 209,48

Warning: Weight over 100 kg

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

$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		2800									
Model		2280		3280		4280		5280		6280	
Depth	mm	62		100		136		173		210	
Exponent	n	1,30		1,30		1,30		1,30		1,30	
Max. number of elements		22		22		22		17		14	
Price/element	€	55,56		80,38		105,15		126,20		151,86	
Length		$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price	$\Phi_s$	Price
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	756	222,24	1004	321,52	1292	420,60	1568	504,80	1836	607,44
5	230	945	277,80	1255	401,90	1615	525,75	1960	631,00	2295	759,30
6	276	1134	333,36	1506	482,28	1938	630,90	2352	757,20	2754	911,16
7	322	1323	388,92	1757	562,66	2261	736,05	2744	883,40	3213	1063,02
8	368	1512	444,48	2008	643,04	2584	841,20	3136	1009,60	3672	1214,88
9	414	1701	500,04	2259	723,42	2907	946,35	3528	1135,80	4131	1366,74
10	460	1890	555,60	2510	803,80	3230	1051,50	3920	1262,00	4590	1518,60
11	506	2079	611,16	2761	884,18	3553	1156,65	4312	1388,20	5049	1670,46
12	552	2268	666,72	3012	964,56	3876	1261,80	4704	1514,40	5508	1822,32
13	598	2457	722,28	3263	1044,94	4199	1366,95	5096	1640,60	5967	1974,18
14	644	2646	777,84	3514	1125,32	4522	1472,10	5488	1766,80	6426	2126,04
15	690	2835	833,40	3765	1205,70	4845	1577,25	5880	1893,00	6885	2277,90
16	736	3024	888,96	4016	1286,08	5168	1682,40	6272	2019,20	7344	2429,76
17	782	3213	944,52	4267	1366,46	5491	1787,55	6664	2145,40	7803	2581,62
18	828	3402	1000,08	4518	1446,84	5814	1892,70	7056	2271,60	8262	2733,48
19	874	3591	1055,64	4769	1527,22	6137	1997,85	7448	2397,80	8721	2885,34
20	920	3780	1111,20	5020	1607,60	6460	2103,00	7840	2524,00	9180	3037,20
21	966	3969	1166,76	5271	1687,98	6783	2208,15	8232	2650,20	9639	3189,06
22	1012	4158	1222,32	5522	1768,36	7106	2313,30	8624	2776,40	10098	3340,92
23	1058	4347	1277,88	5773	1848,74	7429	2418,45	9016	2902,60	10557	3492,78
24	1104	4536	1333,44	6024	1929,12	7752	2523,60	9408	3028,80	11016	3644,64
25	1150	4725	1389,00	6275	2009,50	8075	2628,75	9800	3155,00	11475	3796,50
26	1196	4914	1444,56	6526	2089,88	8398	2733,90	10192	3281,20	11934	3948,36
27	1242	5103	1500,12	6777	2170,26	8721	2839,05	10584	3407,40	12393	4100,22
28	1288	5292	1555,68	7028	2250,64	9044	2944,20	10976	3533,60	12852	4252,08
29	1334	5481	1611,24	7279	2331,02	9367	3049,35	11368	3659,80	13311	4403,94
30	1380	5670	1666,80	7530	2411,40	9690	3154,50	11760	3786,00	13770	4555,80
31	1426	5859	1722,36	7781	2491,78	10013	3259,65	12152	3912,20	14229	4707,66
32	1472	6048	1777,92	8032	2572,16	10336	3364,80	12544	4038,40	14688	4859,52
33	1518	6237	1833,48	8283	2652,54	10659	3469,95	12936	4164,60	15147	5011,38
34	1564	6426	1889,04	8534	2732,92	10982	3575,10	13328	4290,80	15606	5163,24
35	1610	6615	1944,60	8785	2813,30	11305	3680,25	13720	4417,00	16065	5315,10
36	1656	6804	2000,16	9036	2893,68	11628	3785,40	14112	4543,20	16524	5466,96
37	1702	6993	2055,72	9287	2974,06	11951	3890,55	14504	4669,40	16983	5618,82
38	1748	7182	2111,28	9538	3054,44	12274	3995,70	14896	4795,60	17442	5770,68
39	1794	7371	2166,84	9789	3134,82	12597	4100,85	15288	4921,80	17901	5922,54
40	1840	7560	2222,40	10040	3215,20	12920	4206,00	15680	5048,00	18360	6074,40

Surcharge for Completo, valve at top, connections V001/V002 €: 148,10

Surcharge for Completo, valve at top, connections V007/V008 €: 196,80

Surcharge for Completo, valve at bottom, connections V003/V004 €: 209,48

Warning: Weight over 100 kg

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 Charleston



$\Phi_s$  = Standard thermal output according to EN 442 ( $\Delta T$  50K: 75/65/20 °C)

Height		3000									
mm											
Model		2300		3300		4300		5300		6300	
Depth	mm	62		100		136		173		210	
Exponent	n	1,30		1,30		1,30		1,30		1,30	
Max. number of elements		22		22		22		17		14	
Price/element		€ 58,97		€ 87,04		€ 112,48		€ 135,15		€ 161,57	
Length		$\Phi_s$		Price		$\Phi_s$		Price		$\Phi_s$	
Elements	mm	W	€	W	€	W	€	W	€	W	€
4	184	804	235,88	1076	348,16	1380	449,92	1680	540,60	1964	646,28
5	230	1005	294,85	1345	435,20	1725	562,40	2100	675,75	2455	807,85
6	276	1206	353,82	1614	522,24	2070	674,88	2520	810,90	2946	969,42
7	322	1407	412,79	1883	609,28	2415	787,36	2940	946,05	3437	1130,99
8	368	1608	471,76	2152	696,32	2760	899,84	3360	1081,20	3928	1292,56
9	414	1809	530,73	2421	783,36	3105	1012,32	3780	1216,35	4419	1454,13
10	460	2010	589,70	2690	870,40	3450	1124,80	4200	1351,50	4910	1615,70
11	506	2211	648,67	2959	957,44	3795	1237,28	4620	1486,65	5401	1777,27
12	552	2412	707,64	3228	1044,48	4140	1349,76	5040	1621,80	5892	1938,84
13	598	2613	766,61	3497	1131,52	4485	1462,24	5460	1756,95	6383	2100,41
14	644	2814	825,58	3766	1218,56	4830	1574,72	5880	1892,10	6874	2261,98
15	690	3015	884,55	4035	1305,60	5175	1687,20	6300	2027,25	7365	2423,55
16	736	3216	943,52	4304	1392,64	5520	1799,68	6720	2162,40	7856	2585,12
17	782	3417	1002,49	4573	1479,68	5865	1912,16	7140	2297,55	8347	2746,69
18	828	3618	1061,46	4842	1566,72	6210	2024,64	7560	2432,70	8838	2908,26
19	874	3819	1120,43	5111	1653,76	6555	2137,12	7980	2567,85	9329	3069,83
20	920	4020	1179,40	5380	1740,80	6900	2249,60	8400	2703,00	9820	3231,40
21	966	4221	1238,37	5649	1827,84	7245	2362,08	8820	2838,15	10311	3392,97
22	1012	4422	1297,34	5918	1914,88	7590	2474,56	9240	2973,30	10802	3554,54
23	1058	4623	1356,31	6187	2001,92	7935	2587,04	9660	3108,45	11293	3716,11
24	1104	4824	1415,28	6456	2088,96	8280	2699,52	10080	3243,60	11784	3877,68
25	1150	5025	1474,25	6725	2176,00	8625	2812,00	10500	3378,75	12275	4039,25
26	1196	5226	1533,22	6994	2263,04	8970	2924,48	10920	3513,90	12766	4200,82
27	1242	5427	1592,19	7263	2350,08	9315	3036,96	11340	3649,05	13257	4362,39
28	1288	5628	1651,16	7532	2437,12	9660	3149,44	11760	3784,20	13748	4523,96
29	1334	5829	1710,13	7801	2524,16	10005	3261,92	12180	3919,35	14239	4685,53
30	1380	6030	1769,10	8070	2611,20	10350	3374,40	12600	4054,50	14730	4847,10
31	1426	6231	1828,07	8339	2698,24	10695	3486,88	13020	4189,65	15221	5008,67
32	1472	6432	1887,04	8608	2785,28	11040	3599,36	13440	4324,80	15712	5170,24
33	1518	6633	1946,01	8877	2872,32	11385	3711,84	13860	4459,95	16203	5331,81
34	1564	6834	2004,98	9146	2959,36	11730	3824,32	14280	4595,10	16694	5493,38
35	1610	7035	2063,95	9415	3046,40	12075	3936,80	14700	4730,25	17185	5654,95
36	1656	7236	2122,92	9684	3133,44	12420	4049,28	15120	4865,40	17676	5816,52
37	1702	7437	2181,89	9953	3220,48	12765	4161,76	15540	5000,55	18167	5978,09
38	1748	7638	2240,86	10222	3307,52	13110	4274,24	15960	5135,70	18658	6139,66
39	1794	7839	2299,83	10491	3394,56	13455	4386,72	16380	5270,85	19149	6301,23
40	1840	8040	2358,80	10760	3481,60	13800	4499,20	16800	5406,00	19640	6462,80

Surcharge for Completto, valve at top, connections V001/V002 €: 148,10

Surcharge for Completto, valve at top, connections V007/V008 €: 196,80

Surcharge for Completto, valve at bottom, connections V003/V004 €: 209,48

Warning: Weight over 100 kg

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