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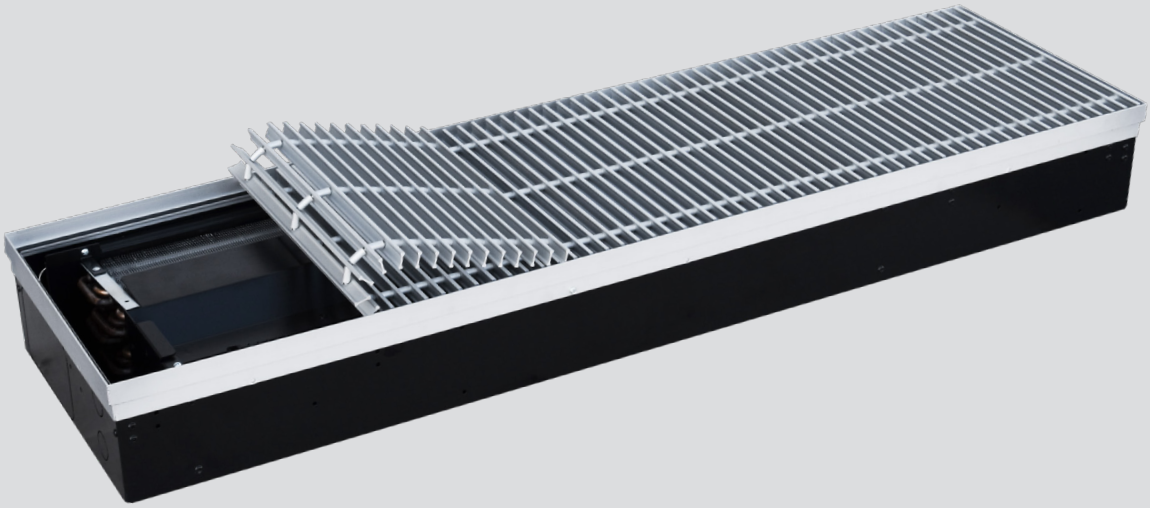
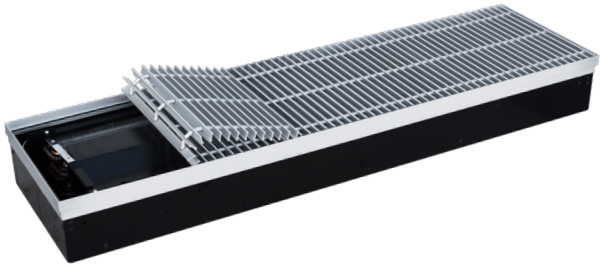


TECHNICAL CATALOGUE

We care about healthy air

Floor convectors TKV-S-13 for humid conditions with forced convection

Floor convector for humid conditions with forced convection TKV-S-13



TKV-S-13 Floor convectors for humid conditions with forced convection

Forced convection floor convectors are designed for room heating with heating capacities up to 4.2 kW. Floor convectors operate in the same way as the types TKV-13. They are particularly suitable for heating of areas with increased level of humidity such as swimming pools or similar.

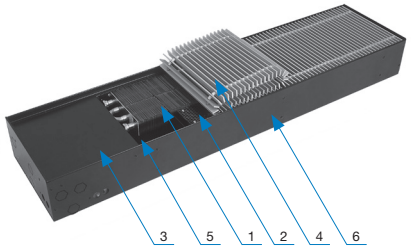
Application

Setting up into the room and installation is the same as for floor convectors TKV-13. They are used for heating, prevention of condensation on glass surfaces, reduction of the convection effect from cold surfaces, and prevention of ingress of cold outside air. Because of the potential ingress of water into the interior of the housing, a drip tray is mounted to collect and drain water. For safety, a low voltage fan (12 V) is installed in the TKV-S-13 model. There are only option with one or two fan units inside TKV-S-13.

Components

Basic design:

1. Heat exchanger
2. Tangential fan 12 V (for TKV-S-13 only), up to 2 fans
3. Electric connection socket (for TKV-S-13 only),
4. Tread-on grille,
5. Condensation collection drip tray,
6. Housing.



Dimensions

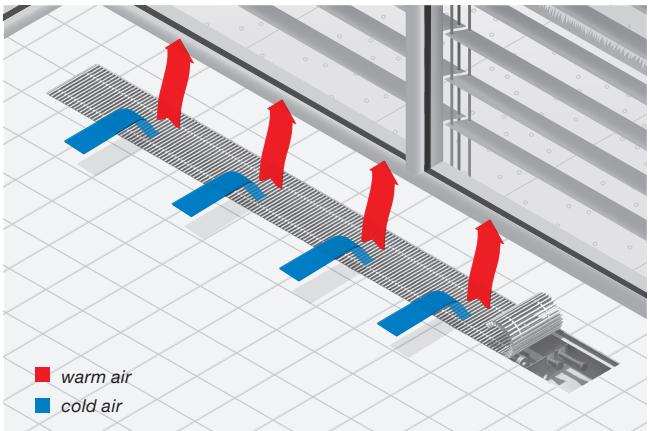
- Standard widths: 200, 300 and 400 mm
- Standard height: 140 mm
- 15 standard lengths: from 1100 mm to 2500 mm.

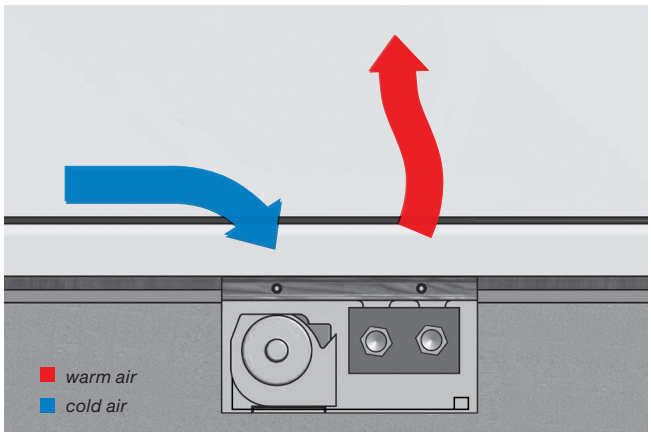
Accessories

Water side regulation is possible with manual valves 01-04 only. Two-way valve VP2 is not appropriate because of thermal actuator 230 V. Air supply side regulation (sets 09S) is defined separately, according to the order conditions.

Selection

User friendly selection softwar makes it easy to select the optimum floor convector for individual projects.





Technical data

TKV-S-13 Lx20x14

Housing length L [mm]	Fan speed	Heating capacity									Sound power	Sound pressure
		75 °C / 65 °C / 20 °C			90 °C / 70 °C / 20 °C			55 °C / 45 °C / 20 °C				
		Q_h	$\dot{m}_w$	Δp_w	Q_h	$\dot{m}_w$	Δp_w	Q_h	$\dot{m}_w$	Δp_w	L_{wA}	L_{pA}
	AC	[W]	[kg/h]	[kPa]	[W]	[kg/h]	[kPa]	[W]	[kg/h]	[kPa]	[dB(A)]	[dB(A)]
1100	MAX	1186	101,9	0,08	1372	59,0	0,03	686	58,9	0,03	49	42
	MED	982	84,4	0,05	1144	49,2	0,02	557	47,9	0,02	43	37
	MIN	813	69,9	0,04	958	41,2	0,01	446	38,3	0,01	38	32
	STOP	159	13,7	0,00	197	8,5	0,00	76	6,5	0,00	-	-
1200	MAX	1209	103,9	0,09	1400	60,1	0,03	698	60,0	0,03	49	42
	MED	1005	86,3	0,06	1171	50,3	0,02	569	48,9	0,02	43	36
	MIN	836	71,8	0,04	986	42,3	0,01	458	39,3	0,01	38	32
	STOP	182	15,6	0,00	225	9,7	0,00	87	7,5	0,00	-	-
1300	MAX	1232	105,8	0,10	1428	61,3	0,03	708	60,9	0,03	49	42
	MED	1028	88,3	0,07	1199	51,5	0,02	580	49,8	0,02	43	36
	MIN	858	73,8	0,05	1013	43,5	0,02	469	40,3	0,01	38	32
	STOP	204	17,6	0,00	253	10,9	0,00	98	8,4	0,00	-	-
1400	MAX	1254	107,8	0,12	1457	62,6	0,04	718	61,7	0,04	49	42
	MED	1050	90,2	0,08	1228	52,7	0,03	590	50,7	0,03	43	36
	MIN	881	75,7	0,06	1042	44,8	0,02	480	41,2	0,02	38	32
	STOP	227	19,5	0,00	281	12,1	0,00	109	9,3	0,00	-	-
1500	MAX	1277	109,7	0,13	1486	63,9	0,04	726	62,4	0,04	49	42
	MED	1073	92,2	0,09	1257	54,0	0,03	600	51,5	0,03	43	36
	MIN	904	77,7	0,07	1070	46,0	0,02	490	42,1	0,02	38	31
	STOP	250	21,5	0,01	310	13,3	0,00	119	10,3	0,00	-	-
1600	MAX	1300	111,7	0,15	1516	65,1	0,05	734	63,1	0,05	49	42
	MED	1096	94,1	0,11	1286	55,2	0,04	609	52,3	0,03	43	36
	MIN	927	79,6	0,08	1099	47,2	0,03	500	42,9	0,02	38	31
	STOP	273	23,4	0,01	338	14,5	0,00	130	11,2	0,00	-	-
1700	MAX	1323	113,6	0,17	1547	66,4	0,06	742	63,8	0,05	49	41
	MED	1118	96,1	0,12	1315	56,5	0,04	618	53,1	0,04	43	36
	MIN	949	81,6	0,09	1128	48,5	0,03	510	43,8	0,02	38	31
	STOP	295	25,4	0,01	366	15,7	0,00	141	12,1	0,00	-	-
1800	MAX	1345	115,6	0,18	1577	67,8	0,06	750	64,4	0,06	49	41
	MED	1141	98,1	0,13	1345	57,8	0,05	626	53,8	0,04	43	36
	MIN	972	83,5	0,10	1157	49,7	0,03	519	44,6	0,03	38	31
	STOP	318	27,3	0,01	394	16,9	0,00	152	13,1	0,00	-	-
1900	MAX	1368	117,5	0,20	1607	69,1	0,07	757	65,1	0,06	49	41
	MED	1164	100,0	0,15	1375	59,1	0,05	635	54,6	0,04	43	35
	MIN	995	85,5	0,11	1186	50,9	0,04	529	45,4	0,03	38	31
	STOP	341	29,3	0,01	422	18,1	0,00	163	14,0	0,00	-	-
2000	MAX	2418	207,8	0,67	2799	120,3	0,23	1396	119,9	0,22	52	44
	MED	2010	172,7	0,46	2342	100,6	0,16	1138	97,8	0,15	46	38
	MIN	1671	143,6	0,32	1971	84,7	0,11	916	78,7	0,10	41	34
	STOP	363	31,2	0,02	450	19,3	0,01	174	14,9	0,00	-	-
2100	MAX	2441	209,7	0,73	2827	121,5	0,24	1407	120,9	0,24	52	44
	MED	2032	174,6	0,50	2370	101,8	0,17	1149	98,7	0,16	46	38
	MIN	1694	145,6	0,35	1999	85,9	0,12	927	79,6	0,10	41	34
	STOP	386	33,2	0,02	478	20,6	0,01	185	15,9	0,00	-	-
2200	MAX	2464	211,7	0,78	2856	122,7	0,26	1417	121,7	0,26	52	44
	MED	2055	176,6	0,54	2398	103,0	0,19	1160	99,7	0,17	46	38
	MIN	1717	147,5	0,38	2027	87,1	0,13	938	80,6	0,11	41	34
	STOP	409	35,1	0,02	507	21,8	0,01	195	16,8	0,00	-	-
2300	MAX	2486	213,6	0,84	2884	123,9	0,28	1426	122,5	0,28	52	44
	MED	2078	178,5	0,59	2427	104,2	0,20	1170	100,5	0,19	46	38
	MIN	1740	149,5	0,41	2055	88,3	0,14	949	81,5	0,12	41	33
	STOP	432	37,1	0,03	535	23,0	0,01	206	17,7	0,01	-	-
2400	MAX	2509	215,6	0,90	2914	125,2	0,30	1435	123,3	0,29	52	44
	MED	2101	180,5	0,63	2455	105,5	0,21	1180	101,4	0,20	46	38
	MIN	1762	151,4	0,44	2083	89,5	0,15	959	82,4	0,13	41	33
	STOP	454	39,0	0,03	563	24,2	0,01	217	18,7	0,01	-	-
2500	MAX	2532	217,5	0,96	2943	126,4	0,32	1444	124,1	0,31	52	43
	MED	2123	182,4	0,67	2484	106,7	0,23	1190	102,2	0,21	46	38
	MIN	1785	153,4	0,48	2112	90,7	0,17	969	83,3	0,14	41	33
	STOP	477	41,0	0,03	591	25,4	0,01	228	19,6	0,01	-	-

TKV-S-13 Lx30x14

Housing length L [mm]	Fan speed	Heating capacity									Sound power	Sound pressure
		75 °C / 65 °C / 20 °C			90 °C / 70 °C / 20 °C			55 °C / 45 °C / 20 °C				
		Q_h	$\dot{m}_w$	Δp_w	Q_h	$\dot{m}_w$	Δp_w	Q_h	$\dot{m}_w$	Δp_w	L_{wA}	L_{pA}
	AC	[W]	[kg/h]	[kPa]	[W]	[kg/h]	[kPa]	[W]	[kg/h]	[kPa]	[dB(A)]	[dB(A)]
1100	MAX	1708	146,8	0,30	1981	85,1	0,10	981	84,3	0,10	47	41
	MED	1410	121,2	0,20	1658	71,2	0,07	779	66,9	0,06	41	35
	MIN	1164	100,1	0,14	1370	58,9	0,05	642	55,2	0,04	36	30
	STOP	245	21,1	0,01	306	13,2	0,00	114	9,8	0,00	-	-
1200	MAX	1743	149,8	0,35	2023	86,9	0,12	999	85,8	0,11	47	41
	MED	1445	124,2	0,24	1700	73,1	0,08	797	68,5	0,07	41	34
	MIN	1199	103,1	0,17	1412	60,7	0,06	661	56,8	0,05	36	30
	STOP	280	24,1	0,01	350	15,0	0,00	131	11,2	0,00	-	-
1300	MAX	1778	152,8	0,41	2067	88,8	0,14	1015	87,2	0,13	47	40
	MED	1480	127,2	0,28	1744	74,9	0,10	814	69,9	0,09	41	34
	MIN	1234	106,1	0,20	1455	62,5	0,07	678	58,2	0,06	36	29
	STOP	315	27,1	0,01	394	16,9	0,00	147	12,6	0,00	-	-
1400	MAX	1813	155,8	0,47	2112	90,7	0,16	1029	88,4	0,15	47	40
	MED	1515	130,2	0,33	1788	76,8	0,11	829	71,2	0,10	41	34
	MIN	1269	109,1	0,23	1498	64,4	0,08	694	59,6	0,07	36	29
	STOP	350	30,1	0,02	437	18,8	0,01	163	14,0	0,00	-	-
1500	MAX	1848	158,8	0,53	2158	92,7	0,18	1042	89,5	0,17	47	40
	MED	1550	133,2	0,38	1833	78,7	0,13	844	72,5	0,11	41	34
	MIN	1304	112,1	0,27	1543	66,3	0,09	709	60,9	0,08	36	29
	STOP	385	33,1	0,02	481	20,7	0,01	179	15,4	0,01	-	-
1600	MAX	1883	161,8	0,60	2204	94,7	0,21	1054	90,6	0,19	47	40
	MED	1585	136,2	0,43	1878	80,7	0,15	858	73,7	0,12	41	34
	MIN	1339	115,1	0,30	1587	68,2	0,11	724	62,2	0,09	36	29
	STOP	420	36,1	0,03	525	22,6	0,01	196	16,8	0,01	-	-
1700	MAX	1918	164,8	0,67	2251	96,7	0,23	1066	91,6	0,21	47	40
	MED	1620	139,2	0,48	1923	82,6	0,17	872	74,9	0,14	41	34
	MIN	1374	118,1	0,35	1632	70,1	0,12	738	63,4	0,10	36	29
	STOP	455	39,1	0,04	569	24,4	0,01	212	18,2	0,01	-	-
1800	MAX	1953	167,8	0,75	2298	98,7	0,26	1077	92,6	0,23	47	40
	MED	1655	142,2	0,54	1969	84,6	0,19	885	76,0	0,15	41	34
	MIN	1409	121,1	0,39	1677	72,1	0,14	753	64,7	0,11	36	29
	STOP	490	42,1	0,05	612	26,3	0,02	228	19,6	0,01	-	-
1900	MAX	1988	170,8	0,83	2345	100,8	0,29	1089	93,5	0,25	47	40
	MED	1690	145,2	0,60	2015	86,6	0,21	898	77,2	0,17	41	34
	MIN	1444	124,1	0,44	1723	74,0	0,16	767	65,9	0,12	36	29
	STOP	525	45,1	0,06	656	28,2	0,02	245	21,0	0,01	-	-
2000	MAX	3487	299,6	2,73	4047	173,9	0,92	1997	171,6	0,90	50	43
	MED	2890	248,4	1,88	3401	146,1	0,65	1594	137,0	0,57	44	36
	MIN	2399	206,1	1,29	2824	121,3	0,45	1321	113,5	0,39	39	32
	STOP	560	48,1	0,07	700	30,1	0,03	261	22,4	0,02	-	-
2100	MAX	3522	302,6	2,95	4090	175,7	1,00	2014	173,0	0,97	50	42
	MED	2925	251,4	2,04	3444	148,0	0,71	1611	138,4	0,62	44	36
	MIN	2434	209,1	1,41	2867	123,2	0,49	1339	115,0	0,43	39	31
	STOP	595	51,1	0,08	744	31,9	0,03	277	23,8	0,02	-	-
2200	MAX	3557	305,6	3,18	4134	177,6	1,08	2029	174,4	1,04	50	42
	MED	2960	254,4	2,21	3487	149,8	0,77	1627	139,8	0,67	44	36
	MIN	2469	212,1	1,53	2910	125,0	0,53	1355	116,4	0,46	39	31
	STOP	630	54,1	0,10	787	33,8	0,04	294	25,2	0,02	-	-
2300	MAX	3592	308,6	3,42	4179	179,5	1,16	2044	175,6	1,11	50	42
	MED	2995	257,4	2,38	3531	151,7	0,83	1643	141,2	0,72	44	36
	MIN	2504	215,1	1,66	2953	126,9	0,58	1372	117,8	0,50	39	31
	STOP	665	57,1	0,12	831	35,7	0,05	310	26,6	0,03	-	-
2400	MAX	3627	311,6	3,67	4224	181,5	1,24	2058	176,8	1,18	50	42
	MED	3030	260,4	2,56	3576	153,6	0,89	1658	142,5	0,77	44	36
	MIN	2539	218,1	1,80	2997	128,8	0,63	1387	119,2	0,54	39	31
	STOP	700	60,1	0,14	875	37,6	0,05	326	28,0	0,03	-	-
2500	MAX	3662	314,6	3,93	4269	183,4	1,33	2071	177,9	1,26	50	42
	MED	3065	263,4	2,75	3620	155,5	0,96	1673	143,8	0,82	44	36
	MIN	2574	221,1	1,94	3041	130,6	0,68	1403	120,5	0,58	39	31
	STOP	735	63,1	0,16	918	39,5	0,06	343	29,4	0,03	-	-

TKV-13 Lx40x14

Housing length L [mm]	Fan speed	Heating capacity									Sound power	Sound pressure
		75 °C / 65 °C / 20 °C			90 °C / 70 °C / 20 °C			55 °C / 45 °C / 20 °C				
		Q_h	$\dot{m}_w$	Δp_w	Q_h	$\dot{m}_w$	Δp_w	Q_h	$\dot{m}_w$	Δp_w	L_{wA}	L_{pA}
	AC	[W]	[kg/h]	[kPa]	[W]	[kg/h]	[kPa]	[W]	[kg/h]	[kPa]	[dB(A)]	[dB(A)]
1100	MAX	1916	164,6	0,55	2233	95,9	0,19	1084	93,1	0,18	47	41
	MED	1595	137,0	0,38	1876	80,6	0,13	880	75,6	0,12	41	35
	MIN	1332	114,4	0,26	1572	67,5	0,09	728	62,5	0,08	36	30
	STOP	379	32,5	0,02	475	20,4	0,01	175	15,0	0,00	-	-
1200	MAX	1970	169,2	0,66	2298	98,7	0,22	1112	95,6	0,21	47	41
	MED	1649	141,7	0,46	1941	83,4	0,16	908	78,1	0,14	41	35
	MIN	1386	119,1	0,33	1637	70,3	0,11	756	65,0	0,10	36	30
	STOP	433	37,2	0,03	542	23,3	0,01	200	17,2	0,01	-	-
1300	MAX	2024	173,9	0,78	2364	101,6	0,27	1139	97,8	0,25	47	41
	MED	1703	146,3	0,55	2007	86,2	0,19	935	80,3	0,17	41	35
	MIN	1440	123,7	0,39	1703	73,1	0,14	783	67,3	0,12	36	30
	STOP	487	41,8	0,05	610	26,2	0,02	225	19,3	0,01	-	-
1400	MAX	2078	178,5	0,91	2432	104,5	0,31	1163	99,9	0,28	47	41
	MED	1757	151,0	0,65	2074	89,1	0,23	960	82,5	0,19	41	34
	MIN	1494	128,4	0,47	1769	76,0	0,16	809	69,5	0,14	36	30
	STOP	541	46,5	0,06	678	29,1	0,02	250	21,5	0,01	-	-
1500	MAX	2132	183,2	1,05	2501	107,4	0,36	1185	101,8	0,32	47	41
	MED	1811	155,6	0,76	2142	92,0	0,27	984	84,6	0,22	41	34
	MIN	1548	133,0	0,55	1837	78,9	0,20	834	71,6	0,16	36	29
	STOP	595	51,1	0,08	746	32,0	0,03	275	23,6	0,02	-	-
1600	MAX	2186	187,8	1,20	2571	110,4	0,42	1207	103,7	0,37	47	40
	MED	1865	160,3	0,88	2211	95,0	0,31	1007	86,6	0,26	41	34
	MIN	1602	137,7	0,65	1905	81,8	0,23	858	73,7	0,19	36	29
	STOP	649	55,8	0,11	814	35,0	0,04	300	25,8	0,02	-	-
1700	MAX	2240	192,5	1,37	2641	113,5	0,47	1228	105,5	0,41	47	40
	MED	1919	164,9	1,00	2280	98,0	0,35	1030	88,5	0,29	41	34
	MIN	1656	142,3	0,75	1973	84,8	0,27	882	75,8	0,21	36	29
	STOP	703	60,4	0,13	881	37,9	0,05	325	27,9	0,03	-	-
1800	MAX	2294	197,1	1,54	2712	116,5	0,54	1249	107,3	0,46	47	40
	MED	1973	169,6	1,14	2350	101,0	0,40	1053	90,4	0,32	41	34
	MIN	1710	146,9	0,86	2042	87,7	0,31	905	77,8	0,24	36	29
	STOP	757	65,0	0,17	949	40,8	0,07	350	30,1	0,04	-	-
1900	MAX	2348	201,8	1,73	2783	119,5	0,61	1269	109,1	0,50	47	40
	MED	2028	174,2	1,29	2420	104,0	0,46	1075	92,3	0,36	41	34
	MIN	1764	151,6	0,98	2111	90,7	0,35	928	79,8	0,27	36	29
	STOP	811	69,7	0,21	1017	43,7	0,08	375	32,2	0,04	-	-
2000	MAX	3939	338,5	5,18	4595	197,4	1,76	2225	191,2	1,65	50	43
	MED	3298	283,4	3,63	3882	166,8	1,26	1817	156,1	1,10	44	37
	MIN	2772	238,1	2,56	3273	140,6	0,89	1512	130,0	0,76	39	32
	STOP	865	74,3	0,25	1085	46,6	0,10	400	34,4	0,05	-	-
2100	MAX	3993	343,1	5,65	4661	200,3	1,92	2252	193,5	1,80	50	43
	MED	3352	288,0	3,98	3948	169,6	1,38	1844	158,4	1,20	44	37
	MIN	2826	242,8	2,83	3339	143,4	0,99	1540	132,3	0,84	39	32
	STOP	919	79,0	0,30	1152	49,5	0,12	425	36,5	0,06	-	-
2200	MAX	4047	347,7	6,14	4728	203,1	2,09	2277	195,7	1,94	50	43
	MED	3406	292,7	4,35	4014	172,5	1,51	1870	160,7	1,31	44	36
	MIN	2880	247,4	3,11	3405	146,3	1,09	1566	134,6	0,92	39	32
	STOP	973	83,6	0,36	1220	52,4	0,14	450	38,7	0,08	-	-
2300	MAX	4101	352,4	6,65	4796	206,0	2,27	2302	197,8	2,09	50	43
	MED	3460	297,3	4,73	4081	175,3	1,65	1895	162,8	1,42	44	36
	MIN	2934	252,1	3,40	3472	149,1	1,19	1592	136,8	1,00	39	31
	STOP	1027	88,3	0,42	1288	55,3	0,16	475	40,8	0,09	-	-
2400	MAX	4155	357,0	7,18	4864	209,0	2,46	2325	199,8	2,25	50	42
	MED	3514	302,0	5,14	4149	178,2	1,79	1920	165,0	1,53	44	36
	MIN	2988	256,7	3,71	3539	152,0	1,30	1618	139,0	1,09	39	31
	STOP	1081	92,9	0,49	1356	58,3	0,19	500	43,0	0,10	-	-
2500	MAX	4210	361,7	7,73	4933	211,9	2,65	2348	201,8	2,41	50	42
	MED	3568	306,6	5,56	4217	181,2	1,94	1944	167,1	1,65	44	36
	MIN	3042	261,4	4,04	3606	154,9	1,42	1643	141,2	1,18	39	31
	STOP	1136	97,6	0,56	1424	61,2	0,22	525	45,1	0,12	-	-

Other technical data for TKV-S-13 Lx20x14, Lx30x14, Lx40x14

Housing length [mm]	**Fan designation** (max. no. of fans)	**Water connectors dimensions** [˝]	**Air flow** [m³/h]	**Max. input power** [W]	**Max. input current** [A]
1100-1900	12	1/2	160	24	4.00
2000-2500	24	1/2	320	48	8.00

Types and colours of tread-on grilles

Longitudinal tread-on grilles are designed to withstand the weight of an individual person, while in case of larger loads roll-up grilles are recommended.

Longitudinal aluminium tread-on grilles

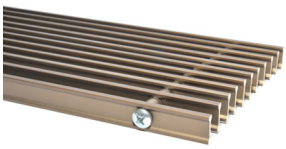
111D longitudinal fixed grille, anodised in natural aluminium colour

111B longitudinal fixed grille, anodised in black colour

111C longitudinal fixed grille, anodised in brass colour

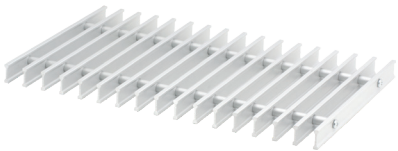
111E longitudinal fixed grille, anodised in chocolate colour

111F longitudinal fixed grille, anodised in bronze colour

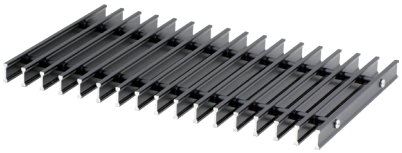


Aluminium and stainless steel roll-up grilles

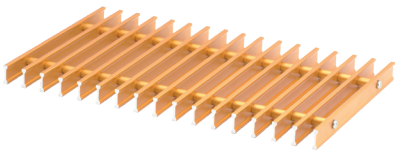
114D roll-up grille, anodised in natural aluminium colour



114B roll-up grille, anodised in black colour

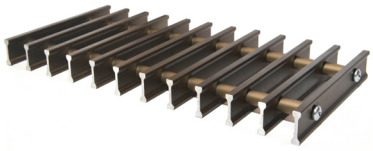


114C roll-up grille, anodised in brass colour

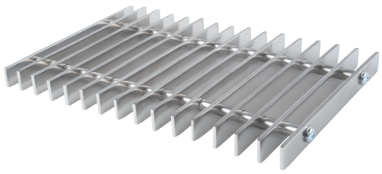


114E roll-up grille, anodised in chocolate colour

114F roll-up grille, anodised in bronze colour

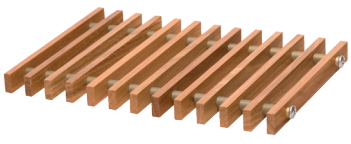


114SS roll-up grille, stainless steel

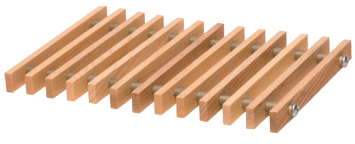


Wooden roll-up grilles

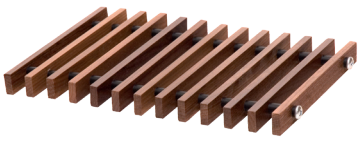
114W1 oak wood



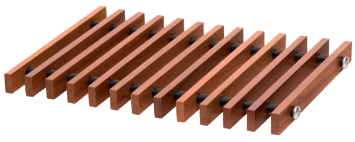
114W2 ash wood



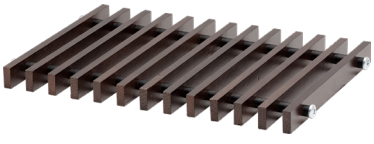
114W3 walnut wood



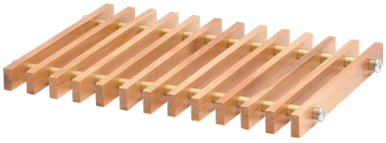
114W4 mahogany wood



114W5 wenge wood



114W6 cherry wood

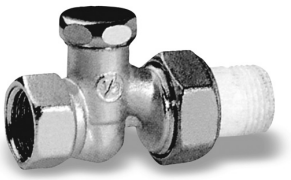


Water side control accessories

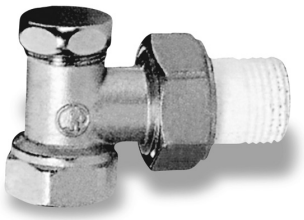
01 Manual valve R1/2” ali R3/4”, straight

02 Manual valve R1/2” or R3/4”, angular

03 Radiator shut-off cock R1/2”ali R3/4”, straight



04 Radiator shut-off cock R1/2”or R3/4”, angular



Notes:

- Valve size (R1/2”, R3/4”) depends on the size of heat exchanger connector size (not necessary to state).
- Manual valves 01-04 are only supplied with the convector but not installed.

Thermostats

T01 Room thermostat

- for 2-pipes systems
- wall installation
- room temperature setup
- manual speed selection
- manual regime (heating-cooling) selection

Air side control accessories

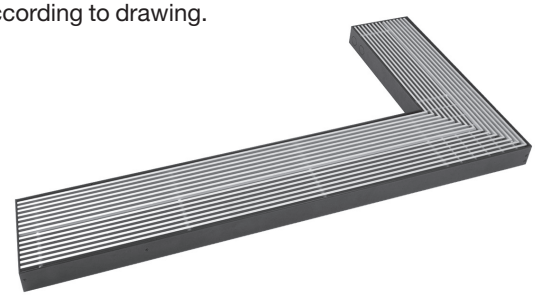
09S Fan speed controller

- The design of 09S is always upon reqest

Other accessories

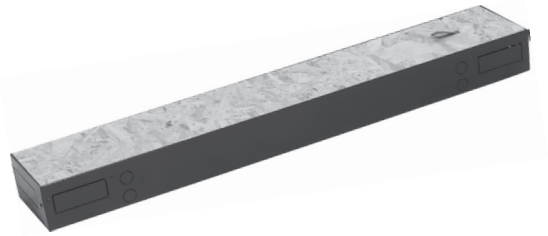
010(xx°) Corner design of convector and grille

According to drawing.

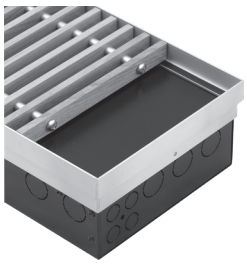


017 Housing thermal insulation

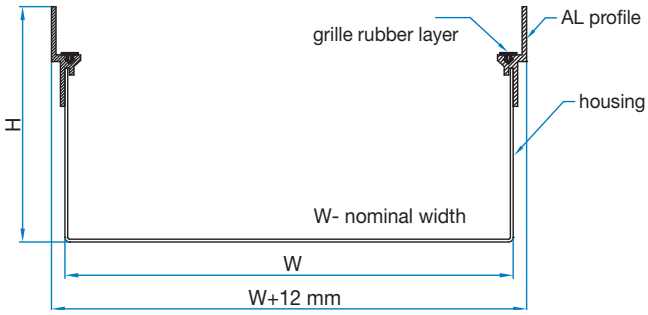
018 Wooden protection cover

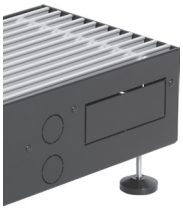


021 Aluminium frame



Note:
when ordering accessory 021, lenght and width of housing increase for 12 mm. The length and width of the grille also change accordingly.





028 Level adjusting legs

- Leveling height (distance to the bottom of floor convector) is 20–70 mm.
- Installation possible in models of 105 and 140 mm height only.
- Different project solutions upon request.

029 Level adjusting and support legs

- Recommended for installation into false floor.
- Set with reinforced housing bracket.
- Available upon request.

032 Connection for fresh air supply without damper

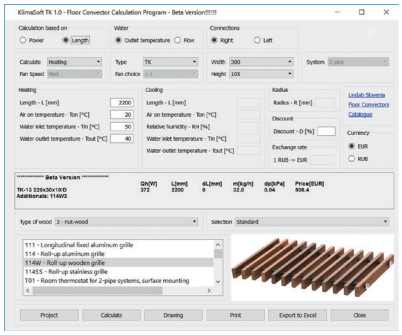
- The connection for fresh air supply is available as a tailored solution, installation details, connection placement and size are to be clarified with the producer for each project individually.

033 Connection for fresh air supply with damper

- The connection for fresh air supply is available as a tailored solution, installation details, connection placement and size are to be clarified with the producer for each project individually.

040 Lowered side

- For connecting two or more floor convectors in line. The grille is from one piece limited with maximum grille length.
- Possible lowered side on the right 040R, lowered side on the left 040L, both lowered sides 040R, 040L.



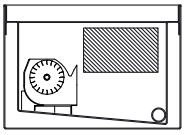
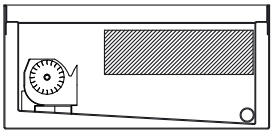
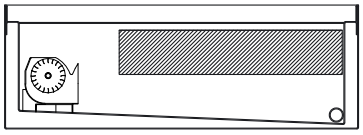
For selection of floor convectors user friendly software is available on request.

Quick overview of floor convectors TKV-S-13

Basic characteristics

Heating capacities	**up to 4.2 kW**
Length	1100-2500 mm increment 100 mm
Width	200, 300, 400 mm
Height	140 mm

Dimensions

	200 mm	300 mm	400 mm
140 mm			

Accessories

Code	Tread-on grile	
111	**Standard tread-on grille design: longitudinal fixed aluminium grille**	**Anodised aluminium** natural aluminium colour, black, brass colour, chocolate, bronze*
114	**roll-up aluminium grille**	**Anodised aluminium** natural aluminium colour, black, brass colour, chocolate, bronze
114W	**roll-up wooden grille**	**Wood type** oak, ash, walnut, mahogany, wenge, cherry
114SS	**roll-up steel**	**Stainless steel**

*For longitudinal grilles other grille colors acc. RAL scale are available on customer's request.

Code	Control accessories
	Water side control (control of the warm water flow rate into the convector)
01	Manual valve R1/2", straight
02	Manual valve R1/2", angular
03	Radiator shut-off cock R1/2", straight
04	Radiator shut-off cock R1/2", angular

Code	Other accessories
010(xx°)*	Corner design of convector and grille
017	Housing thermal insulation
018	Wooden protection cover (protection of the convector during the installation)
021	Aluminium frame, fixed to the housing
028	Level adjusting legs, levelling height 20-70 mm
029	Level adjusting and support legs, with reinforced housing (upon request)
032	Connection for fresh air supply, without damper (upon request)
033	Connection for fresh air supply, with damper (upon request)
040	Lowered side

*(xx°) = state desired angle, e.g. 90 °

Ordering key

TKV-S-13	200 X 20 X 14	/	R	/	N	/	24	/		/	01, 03, 09S	/	111D	/		/	
1	2a x 2b x 2c		3		4		5		6		7a, 7b		8		9		10

1 Type

TKV-S-13	Floor convector with forced convection for humid conditions

2a Length

110-250	1100 - 2500 mm (increment 100 mm)

2b Width

20	200 mm
30	300 mm
40	400 mm

2c Height

14	140 mm

3 Water connection side

R	Right (convector seen from the room towards the window)
L	Left (convector seen from the room towards the window)

4 New floor convectors version 2017

N	New generation of floor convectors with optimized tehnical caracteristics and price:performance ratio.

5 Fan designation

12	Suitable for housing length 1200-1600
24	Suitable for housing length 2000-2500

6 Thermostat type

T01	Fan speed controller

7a Air side control

09S	Fan speed controller

7 Valve type

01	Manual valve, straight
02	Manual valve, angular
03	Shout-off cock, straight
04	Shout-off cock, angular

8 Special housing designs

010(xx°)	Corner design (example: angle xx°=90°)

9 Grille

111	Longitudinal aluminium grille, anodised
114	Roll-up aluminium gille, anodised
114W	Wooden roll-up grille
114SS	Stainless steel roll-up grille

10 Accessories

017	Housing thermal insulation
018	Wooden protection cover for increased protection during installation
021	Aluminium decorative frame fixed to the housing
028	Level adjusting legs
029	Level adjusting and support legs, with reinforced housing
032	Fresh air connection without damper
033	Fresh air connection with damper
040R	Lowered side on the right
040L	Lowered side on the right

Product description, scope of delivery, dimensions

Floor convectors with forced convection TKV-S-13

Housing

- Housing suitable for false floor installation, installation in concrete floors or screed. Operation principle: natural convection.
- The durable, stable box is made of steel sheet powder painted in black color (RAL 9005).
- The adjustable support screws are located inside the housing. Optionally, also support legs mounted outside of the housing are available to increase the housing stability (accessory 029). The support surfaces for the decorative grille in the housing are equipped with a special anti-slip seal that ensures good sound insulation and fit of the grille.
- The connections can be carried out on both side and front housing panel.
- Water collection drip tray included as standard.

Heat exchanger

- The heat exchanger consists of copper pipes and aluminum fins in natural aluminium color and is placed in the housing on steel support brackets.
- Features: End connection; inner thread 1/2 for models with height 80, 105, 110 inner thread 3/4 for models with height 140 (widths 200 and 400);
- Fitted with a de-airing valve;
- Suitable for operation with a maximum working pressure of 11 bar (maximum allowed pressure 16 bar) and maximum operating temperature 110 °C.

Fan

- Tangential fans which enhance convection are installed parallel to the heat exchanger. The fan in the housing must be located on the side of the room.
- The fan has a lightweight protective casing that prevents large and medium particles from reaching the fan impeller.
- The fan is mounted to the body of the convector by using rubber dampers, which eliminate background noise.
- Power is provided by an energy-efficient AC motor 12 V. The fans are energy efficient.

Grille

- As standard, a longitudinal aluminium grille is delivered with the floor convector. The grille is placed on a anti vibration sealing tape for improved sound attenuation. The grille itself consist of 18 mm high profile rods, anodized in natural aluminum color. The effective cross-section is approx. 70 %. Since the grille is made of I-profiles it can be turned over and used equally on both sides.

Standards

- Heating characteristics are measured acc. European standard EN 442.
- Sound power level L wA (dB(A)), weighted according to IEC 61672 and calculated in accordance with the recommendation of the EN ISO 3741 standard.
- Quality management system according to catest standard EN ISO 9001.
- Environmental management system according to catest standard EN ISO 14001..

Operation

- Forced convection floor convectors apply the principle of forced air circulation, maintained both by means of a tangential fan and by natural convection. Cold air enters into the floor convector, warms in the heat exchanger and rises into the room. Increased volume flow rate contributes to uniform distribution of heat in the room and improved indoor comfort. Floor convectors further prevent condensation build-up on glass and inlet of cold outside air.

Application

- Floor convectors are used as an efficient heating solution for premises with humid conditions and large glazing envelope surfaces such as swimming pools, spa areas, etc.

Scope of delivery

- 3 convector widths: 200, 300, 400 mm;
- 1 convector height: 140 mm;
- 18 convector lengths: from 800 mm to 2500 mm length (increment is 100 mm).

Control accessories

- See description on pages 8-9.

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