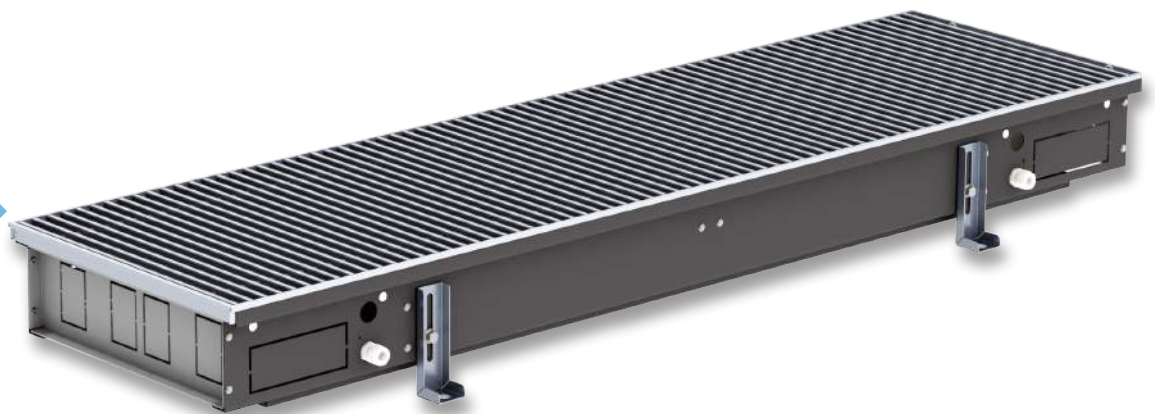


8/S5
v 2.6 (en)



FLOOR CONVECTORS

PKN, PKF, PKH, PKH-4C

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Definition of symbols

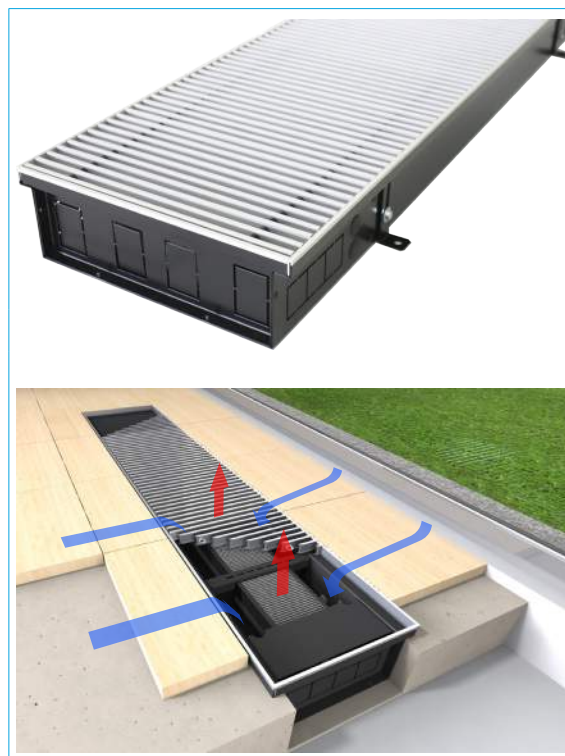
V	[m ³ /h]	Air flow rate	L	[m]	Window length
v _L	[m/s]	Cold jet velocity	t _{UL}	[°C]	Inlet air temperature
Δt _L	[°C]	Temperature difference	t _{LZ}	[°C]	Outlet air temperature
K	[W/m ² K]	Heat coefficient	Q _H	[W]	Heating output
Q	[W]	Heat output	Q _C	[W]	Cooling output
L _{WA}	[dB(A)]	Sound power level	Q _S	[W]	Sensible heat output
c _L	[kJ/kgK]	Specific heat coefficient of cold air	U	[V]	Voltage
b	[m]	Window width	I	[A]	Current
h	[m]	Window height	P	[W]	Electric motor rated power
ρ	[kg/m ³]	Air density	f	[Hz]	Frequency

Application

- Perfect for use in areas with high interior design requirements and spaces with large glass surfaces.
- Attractive solution used both as a primary or secondary heat source in water heating and/or cooling systems.

Features

- Steel sheet casing powder coated in black color - RAL9005. Optional external 6 mm thick insulation.
- Cu/Al heat exchanger with profiled fins and 1/2" internal thread connections; each tested on 25 bar max pressure.
- Low noise tangential fans: 230V AC or 24V EC
- Wide range of attractive cover grilles made of anodized aluminium, wood or stainless steel in longitudinal or transverse roll-up design.
- Modular design allows easy connection and section adjustments
- Variety of accessories, regulation and inactive connection parts.



Advantages

Intersecting cold air stream

In rooms with large glass surfaces, cold air downwash is present from glass surfaces towards the rest of the room. Floor convectors intersect the cold air stream, creating a warm barrier between cold glass surface and the rest of the room. It improves the room comfort and prevents fogging of the glass surfaces.

Cost effective

As an addition to floor heating system, floor convectors are great solution for short-term heating requirements during transitional periods between seasons. In this way heating is only delivered when necessary, avoiding unwanted heat transfer and saving money.

Instant heating

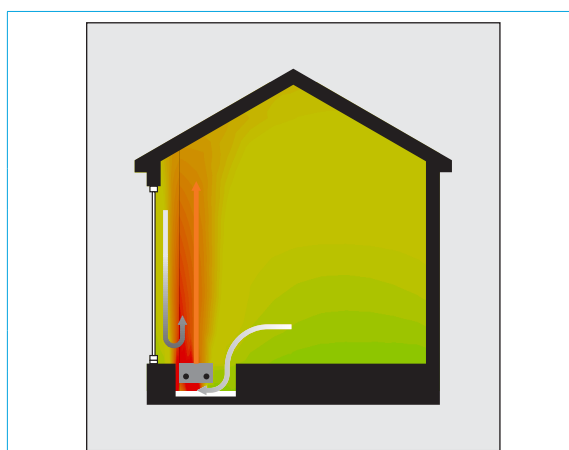
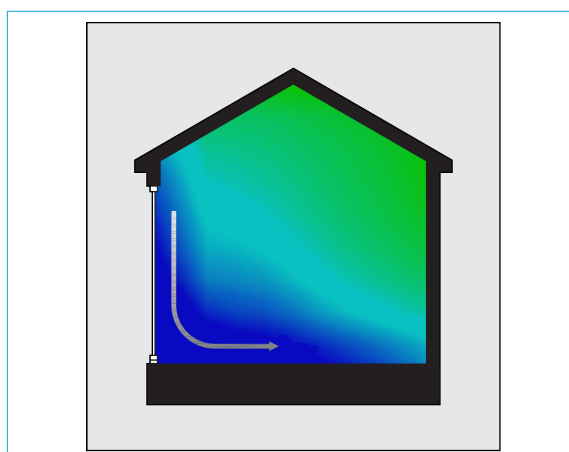
Heat exchangers provide rapid heat transfer due to large heat exchange surface. It is especially beneficial in combination with slow heating systems.

High heat output at low input water temperatures

In heating systems with low water temperatures, floor convectors with forced convection are used. The principle of forced convection greatly increases heat output.

Attractive design

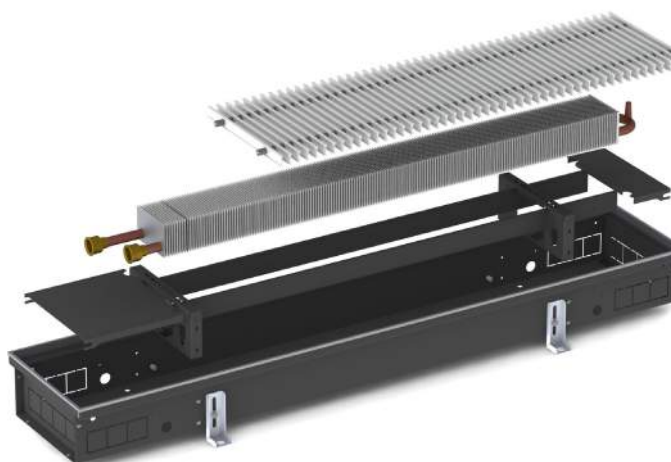
Compared to classical heating systems, floor convectors are not using up useful space nor interfering with room arrangement.



PKN | NATURAL CONVECTION HEATING

Natural convection is used for heat transfer from heating element to the surrounding air. Cold air is heavier and falls to the bottom of the casing. Air is then heated by a heat exchanger. As it gets warmer, it rises, and leaves the room for new cold air to fill the casing.

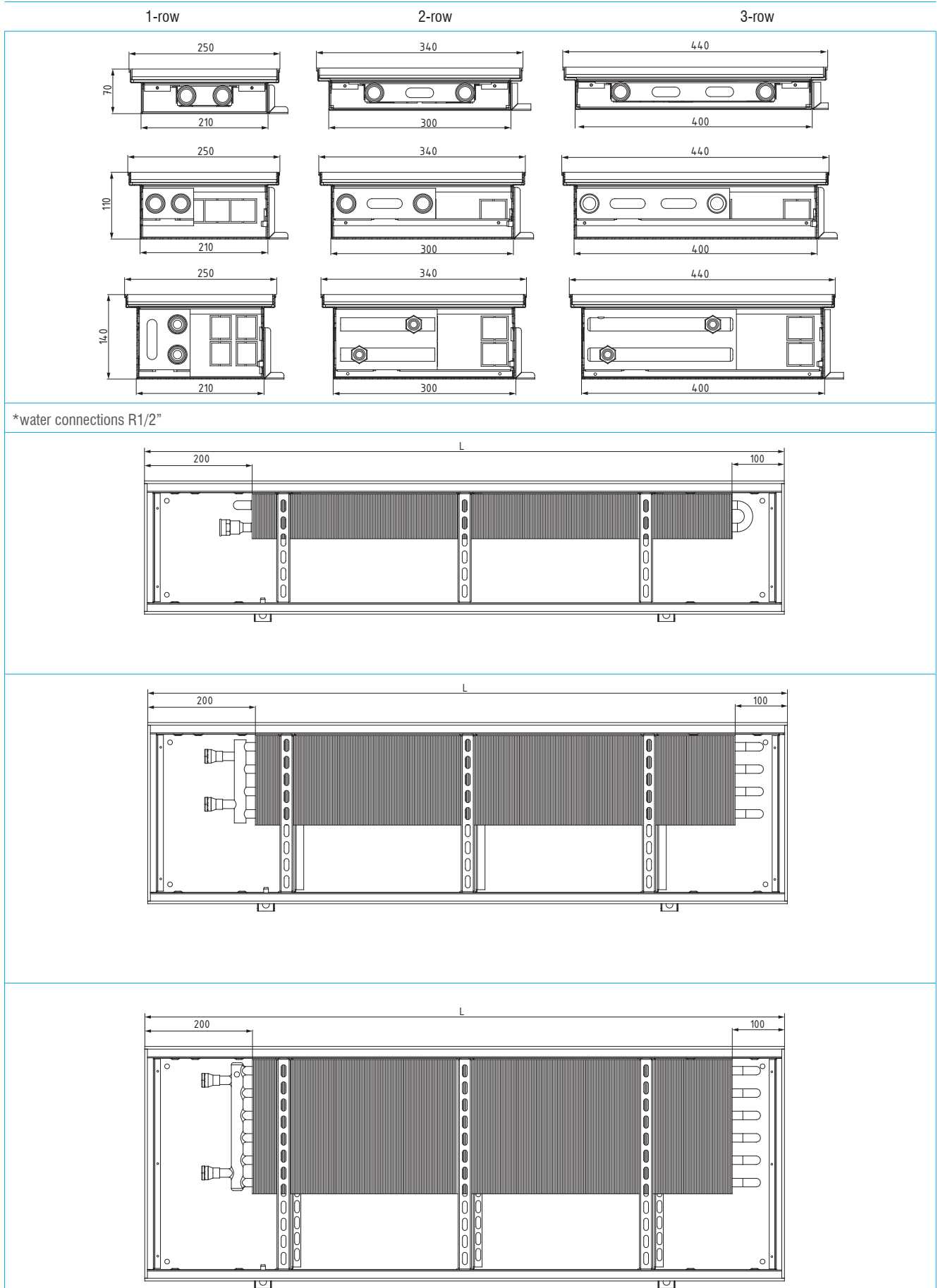
Length: 1000 to 3000 mm
 Height: 70, 110 or 140 mm
 Heat output: 66 - 2570 W
 Heat exchanger: 1-row, 2-row, 3-row



Heat output [W] - PKN

Length [mm]	LPHW	1-row			2-row			3-row		
		Height [mm]								
		70	110	140	70	110	140	70	110	140
1000	90/70/20 °C	198	280	329	351	460	532	494	632	831
	75/65/20 °C	153	223	256	279	376	427	398	522	671
	55/45/20 °C	66	102	111	129	186	199	189	264	323
1200	90/70/20 °C	257	349	412	437	571	667	619	781	1021
	75/65/20 °C	198	278	321	347	467	535	498	645	825
	55/45/20 °C	85	128	140	160	230	249	236	326	398
1400	90/70/20 °C	314	421	497	523	682	800	744	928	1213
	75/65/20 °C	242	335	387	416	558	642	599	766	980
	55/45/20 °C	104	154	169	192	275	299	284	387	473
1600	90/70/20 °C	372	492	582	608	893	936	870	1077	1405
	75/65/20 °C	287	392	453	483	731	751	700	889	1135
	55/45/20 °C	123	180	197	223	360	350	332	449	547
1800	90/70/20 °C	430	561	668	695	903	1071	993	1223	1595
	75/65/20 °C	332	447	520	552	739	859	799	1010	1289
	55/45/20 °C	143	205	226	255	364	400	379	511	622
2000	90/70/20 °C	487	632	751	781	1013	1204	1118	1370	1789
	75/65/20 °C	376	503	585	621	829	966	900	1131	1445
	55/45/20 °C	161	231	255	287	409	450	427	572	697
2200	90/70/20 °C	545	702	836	864	1124	1340	1242	1519	1980
	75/65/20 °C	421	559	651	687	920	1075	1000	1254	1600
	55/45/20 °C	180	257	284	317	453	501	474	634	771
2400	90/70/20 °C	602	774	920	951	1234	1475	1367	1665	2172
	75/65/20 °C	465	616	717	7556	1010	1183	1100	1375	1755
	55/45/20 °C	199	283	312	349	498	551	521	695	846
2600	90/70/20 °C	662	845	1005	1039	1346	1608	1491	1814	2363
	75/65/20 °C	511	673	783	826	1101	1290	1200	1498	1909
	55/45/20 °C	219	309	341	381	543	601	569	757	921
2800	90/70/20 °C	718	913	1090	1122	1458	1744	1615	1961	2555
	75/65/20 °C	554	727	849	892	1193	1399	1300	1619	2064
	55/45/20 °C	238	334	370	412	588	652	616	819	955
3000	90/70/20 °C	777	986	1178	1208	1569	1881	1740	2107	2570
	75/65/20 °C	600	785	918	960	1284	1509	1401	1740	2076
	55/45/20 °C	257	360	400	444	633	703	664	880	1001

Dimensions - PKN



PKF | FORCED CONVECTION HEATING

Forced convection is achieved by using a built in fans to increase the airflow over heating surfaces, thus greatly improving heat transfer efficiency.

Length: 1000 to 3000 mm
Height: 110 or 140 mm
Heat output: 57 - 7360 W
Heat exchanger: 1-row, 2-row, 3-row

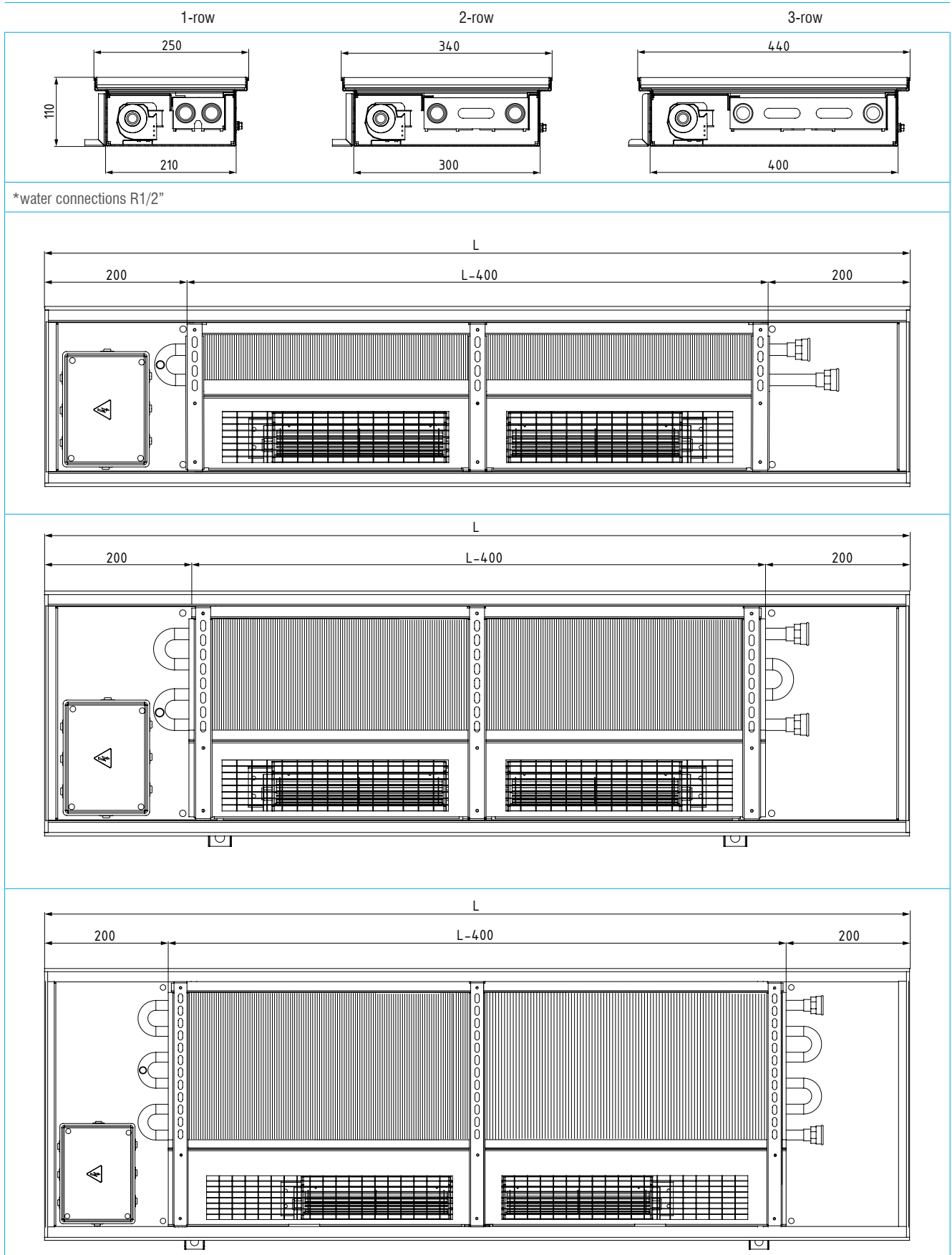
Fans / Controls
230 V AC - 3 speed transformer
230 V AC - control 0-10 V
24 V EC - control 0-10 V
12 V DC - on request



Heat output [W] - PKF

Length [mm]	LPHW	1-row				2-row					3-row			
		Fan speed												
		OFF	MIN	MED	MAX	OFF	MIN	MED	MAX	OFF	MIN	MED	MAX	
1 fan														
1000	90/70/20 °C	148	575	762	1080	248	846	1130	1645	365	985	1412	1994	
	75/65/20 °C	119	488	656	933	197	723	1020	1501	293	834	1303	1829	
	55/45/20 °C	57	267	372	540	92	397	532	809	135	456	666	967	
1200	90/70/20 °C	179	686	894	1235	318	1027	1343	1915	429	1329	1759	2416	
	75/65/20 °C	144	583	770	1067	252	878	1211	1749	345	1128	1618	2207	
	55/45/20 °C	69	319	436	618	117	482	631	942	159	617	827	1167	
1400	90/70/20 °C	233	739	946	1289	408	1112	1428	2003	549	1444	1869	2528	
	75/65/20 °C	188	628	816	1115	324	954	1292	1832	441	1228	1733	2317	
	55/45/20 °C	90	343	462	645	151	523	673	987	203	672	886	1225	
1600	90/70/20 °C	286	788	994	1339	503	1195	1515	2088	666	1556	1985	2640	
	75/65/20 °C	231	670	856	1157	399	1033	1297	1819	535	1333	1698	2275	
	55/45/20 °C	110	366	485	670	185	567	716	1034	246	729	940	1285	
2 fans														
1800	90/70/20 °C	308	1320	1736	2419	548	1969	2602	3748	744	2547	3411	4720	
	75/65/20 °C	248	1122	1595	1495	435	1683	2344	3418	598	2161	3143	4310	
	55/45/20 °C	118	613	848	1210	202	924	1221	184	275	1182	1607	2279	
2000	90/70/20 °C	361	1371	1789	2473	642	2056	2688	3832	869	2654	3523	4835	
	75/65/20 °C	291	1166	1541	2137	509	1758	2419	3499	698	2259	3249	4417	
	55/45/20 °C	139	637	873	1236	237	965	1260	1885	321	1235	1661	2335	
2200	90/70/20 °C	415	1423	1842	2519	734	2137	2771	3915	979	2775	3632	4945	
	75/65/20 °C	335	1210	1586	2182	582	1832	2493	3579	787	2357	3355	4523	
	55/45/20 °C	160	662	899	1263	270	1005	1299	1928	362	1289	1716	2392	
2400	90/70/20 °C	469	1474	1893	2573	824	2226	2863	4006	1101	2887	3748	5057	
	75/65/20 °C	378	1253	1630	2226	654	1907	2436	3469	885	2446	3198	4335	
	55/45/20 °C	180	685	924	1288	304	1046	1346	1973	407	1338	1770	2449	
3 fans														
2600	90/70/20 °C	490	2004	2631	3654	871	2997	3953	5657	1175	3878	5172	7140	
	75/65/20 °C	395	1704	2266	3159	691	2562	3555	5167	944	3290	4766	6517	
	55/45/20 °C	188	932	1284	1828	321	1406	1852	2784	434	1799	2437	3446	
2800	90/70/20 °C	542	2056	2684	3707	963	3083	4030	5752	1292	3992	5284	7252	
	75/65/20 °C	437	1771	2311	3204	764	2636	3634	5247	1038	3388	4872	6623	
	55/45/20 °C	208	969	1310	1854	355	1446	1894	2827	478	1853	2492	3502	
3000	90/70/20 °C	596	2115	2735	3760	1053	3170	4115	5844	1413	4106	5397	7360	
	75/65/20 °C	481	1838	2355	3250	835	2710	3710	5328	1135	3485	4979	6730	
	55/45/20 °C	229	1005	1335	1880	388	1487	1935	2871	522	1906	2546	3559	

Dimensions - PKF



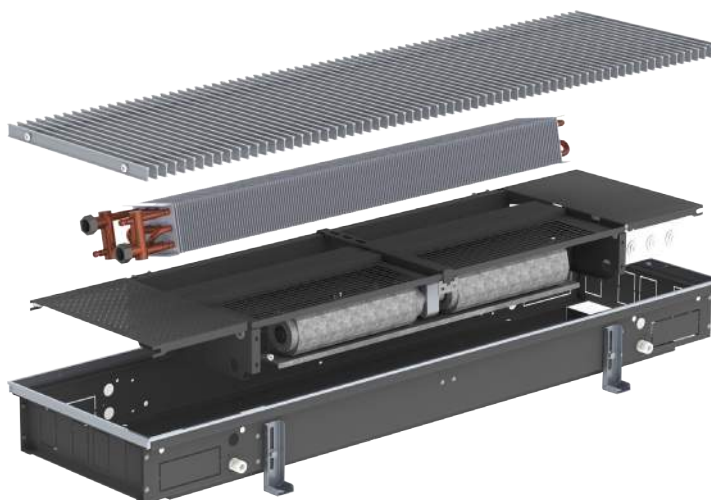
PKH | HEATING or COOLING

- 2-pipe system for heating or cooling
- Condensate drain included

Length: 1200 to 3000 mm
 Height: 130 or 150 mm
 Heat output: 1105 - 13006 W
 Cooling output: 406 - 4757 W

Fans / Controls

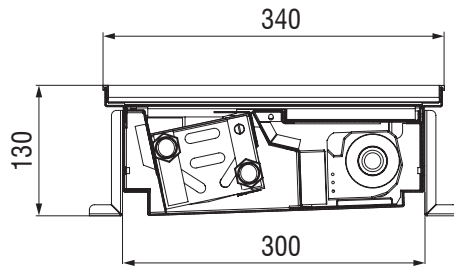
230 V AC - 3 speed transformer
 230 V AC - control 0-10 V
 24 V EC - control 0-10 V
 12 V DC - on request



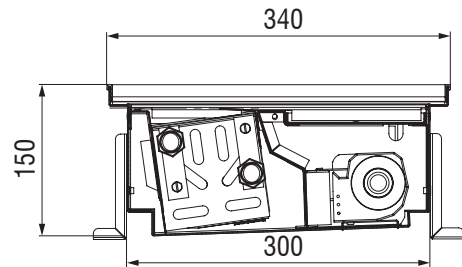
		PKH-130						PKH-150					
		LPHW			LPCW			LPHW			LPCW		
		90/70/20 °C	75/65/20 °C	55/45/20 °C	6/12/26 °C	10/15/26 °C	12/16/26 °C	90/70/20 °C	75/65/20 °C	55/45/20 °C	6/12/26 °C	10/15/26 °C	12/16/26 °C
L = 1200 mm (1 fan)													
Fan speed	MIN	2610	1790	1105	726	517	454	2677	2231	1335	717	443	406
	MED	3016	2537	1568	841	615	525	3448	2832	1684	1026	790	689
	MAX	3683	3069	1892	1019	754	655	4600	3647	2209	1384	1013	893
L = 2000 mm (2 fans)													
Fan speed	MIN	5015	4083	2250	1309	909	876	5331	4494	2663	1364	861	843
	MED	5867	4802	3041	1682	1094	1086	6806	5644	3422	2340	1751	1356
	MAX	7366	5953	3763	2461	1596	1588	8703	7412	4402	2978	2001	1607
L = 2600 mm (3 fans)													
Fan speed	MIN	7369	6124	3375	2252	1523	1343	7832	6574	3983	2563	1749	1547
	MED	8801	7203	4561	2744	1872	1623	9920	8501	4925	3241	2264	1977
	MAX	11050	8930	5645	3462	2224	2162	12847	10529	6309	4294	3039	2697
L = 3000 mm (3 fans)													
Fan speed	MIN	7523	6201	3620	2302	1771	1538	7910	6669	3952	2808	1942	1676
	MED	8903	7346	4725	2873	2124	1918	10047	8332	5052	3527	2453	2142
	MAX	11357	9145	5921	3926	2848	2469	13006	10751	6372	4757	3306	2887

Dimensions - PKH

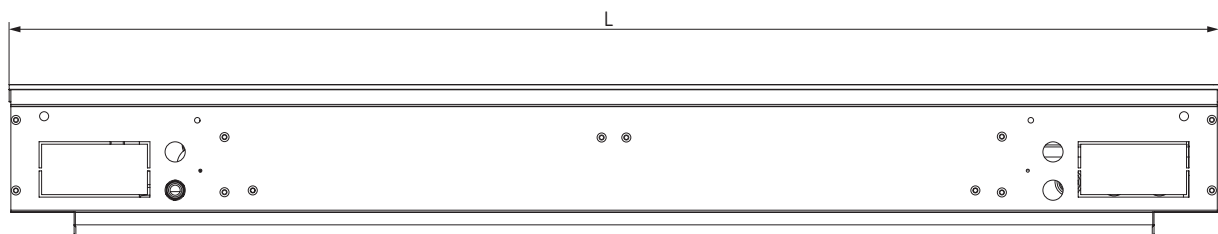
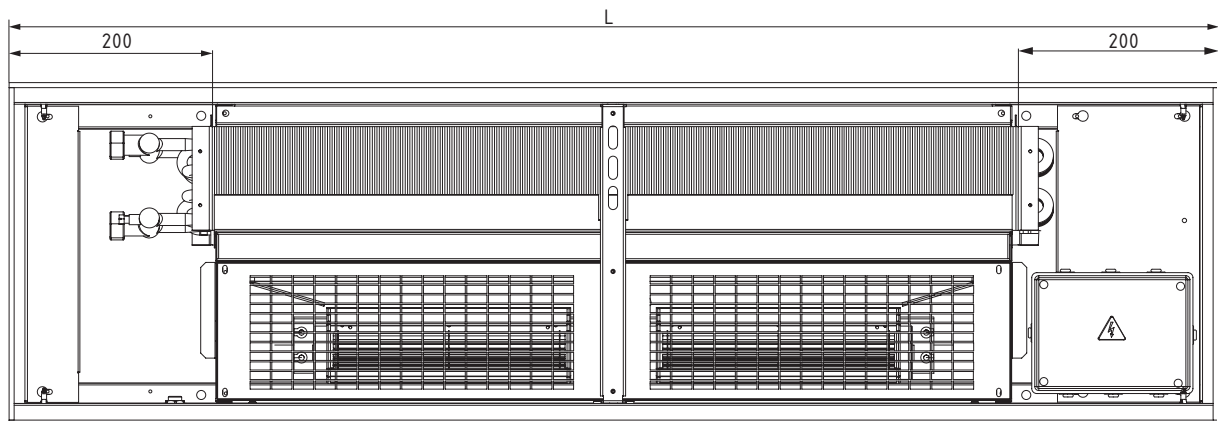
PKH-130



PKH-150



*water connections R1/2"



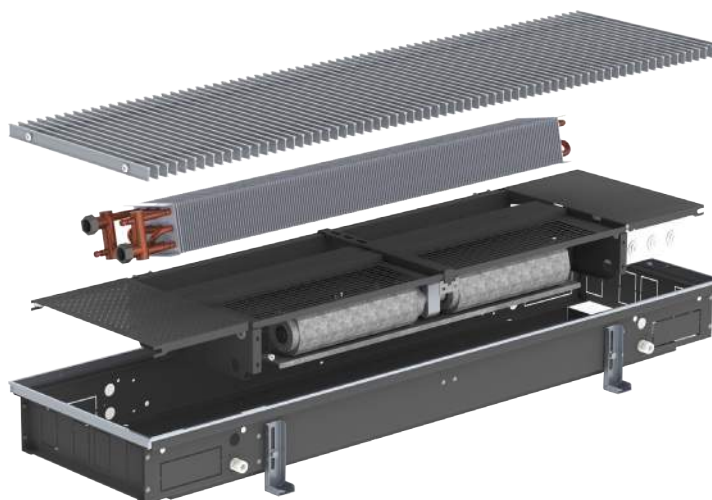
PKH-4C | HEATING and/or COOLING

- 4-pipe system for heating and/or cooling
- Condensate drain included

Length: 1200 to 3000 mm
 Height: 130 or 150 mm
 Heat output: 941 - 9181 W
 Cooling output: 440 - 4439 W

Fans / Controls

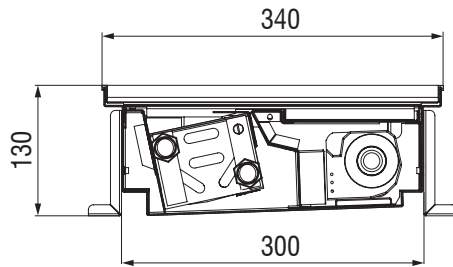
230 V AC - 3 speed transformer
 230 V AC - control 0-10 V
 24 V EC - control 0-10 V
 12 V DC - on request



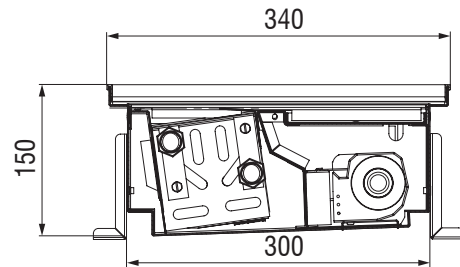
		PKH-4C-130						PKH-4C-150					
		LPHW			LPCW			LPHW			LPCW		
		90/70/20 °C	75/65/20 °C	55/45/20 °C	6/12/26 °C	10/15/26 °C	12/16/26 °C	90/70/20 °C	75/65/20 °C	55/45/20 °C	6/12/26 °C	10/15/26 °C	12/16/26 °C
L = 1200 mm (1 fan)													
Fan speed	MIN	-	-	-	-	-	-	1913	1586	941	755	523	440
	MED	-	-	-	-	-	-	2285	1880	1106	1110	767	627
	MAX	-	-	-	-	-	-	2727	2284	1350	1426	1013	855
L = 2000 mm (2 fans)													
Fan speed	MIN	-	-	-	-	-	-	3693	3069	1820	1494	1003	789
	MED	-	-	-	-	-	-	4310	3614	2113	2151	1454	1205
	MAX	-	-	-	-	-	-	5310	4410	2609	2853	1939	1640
L = 2600 mm (3 fans)													
Fan speed	MIN	-	-	-	-	-	-	5479	4526	2684	1903	1364	1237
	MED	-	-	-	-	-	-	6342	5216	3067	2723	1952	1751
	MAX	-	-	-	-	-	-	7864	6412	3880	4280	2688	2419
L = 3000 mm (3 fans)													
Fan speed	MIN	-	-	-	-	-	-	5955	5141	2792	2343	1703	1489
	MED	-	-	-	-	-	-	7018	5523	3149	2954	2093	1831
	MAX	-	-	-	-	-	-	9181	7425	4116	4439	2908	2566

Dimensions - PKH-4C

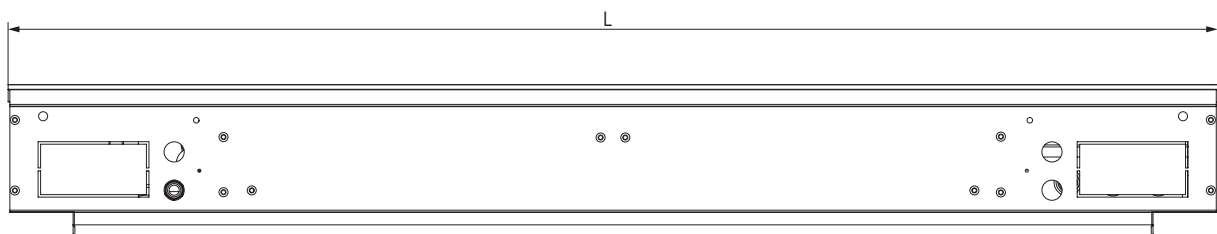
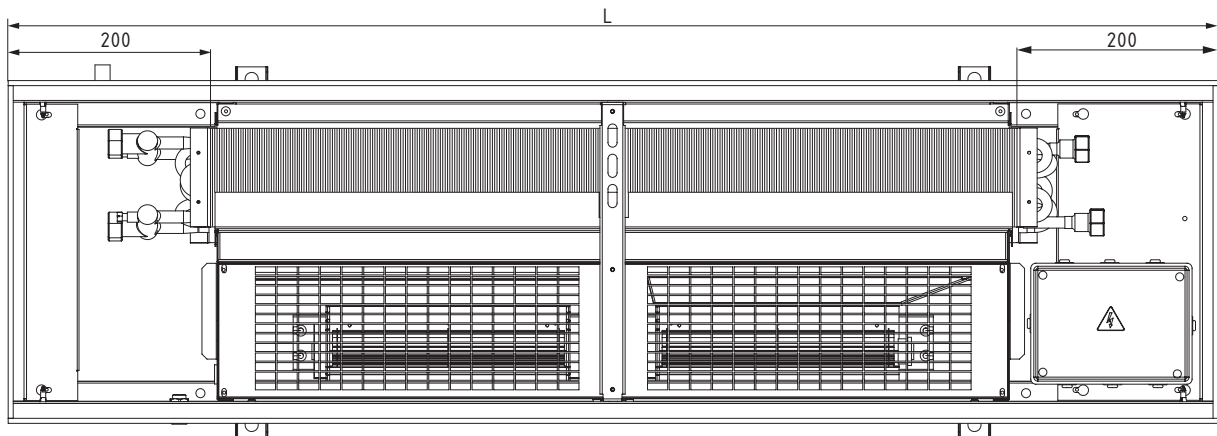
PKH-4C-130



PKH-4C-150



*water connections R1/2"



PKV | FOR DAMP LOCATIONS

- Version for heating of damp areas (swimming pools, winter gardens etc.)
- Natural or forced convection
- Special 12V crossflow fans (power supply unit has to be provided outside of the floor convector)
- Unique casing design with water drain and dividing rack

Length: 1000 to 3000 mm

Height: 110 or 140 mm

Heat output:

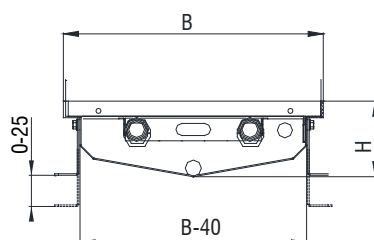
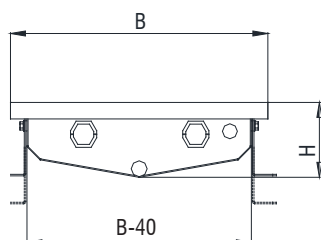
Heat exchanger: 1-row, 2-row, 3-row

Fans / Controls

12 V DC



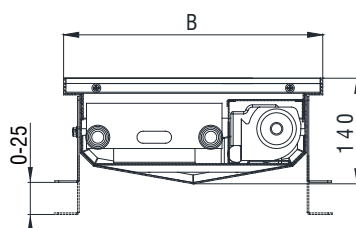
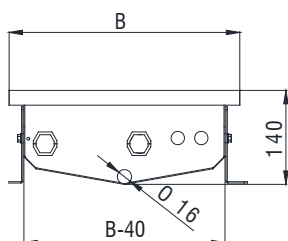
PKV-N (Natural convection)



connection - R 1/2"

Heat exchanger	B [mm]	H [mm]
1-row	250	100
		140
		170
2-rows	340	100
		140
		170
3-rows	440	100
		140
		170

PKV-F (Forced convection)



connection - R 1/2"

Heat exchanger	B [mm]	H [mm]
1-row	250	140
2-row	340	140
3-row	440	140

Floor convector selection

For given height and width of glass surface, heat transfer coefficient K and outside temperature, we can calculate convector selection parameters.

Example:

- from diagram 1, $\Delta t_L = 7$ K
- from diagram 2 cold air velocity $v = 0,36$ m/s.
- from diagram 3 airflow rate, $V_L = 52$ m³/h

To prevent cold air intrusion in room, necessary heat output per meter length is determined by:

$$Q_{\text{falling air}} = \frac{V_L \cdot c_L \cdot b \cdot \Delta t_L \cdot \rho}{3600}$$

Inserting known values

$$V_L = 52 \text{ m}^3/\text{h}$$

$$c_L = 1,006 \text{ kJ/kgK}$$

$$b = 1 \text{ m (glass width)}$$

$$\Delta t_L = 7 \text{ K}$$

$$\rho = 1,2 \text{ kg/m}^3$$

$$Q_{\text{falling air}} = 0,122 \text{ kW}$$

In accordance with result above, a floor convector with minimal length of 1m and minimal heat output of 0,122kW can be selected.

Diagram 1: Temperature difference of glass surface, at room temperature 20°C

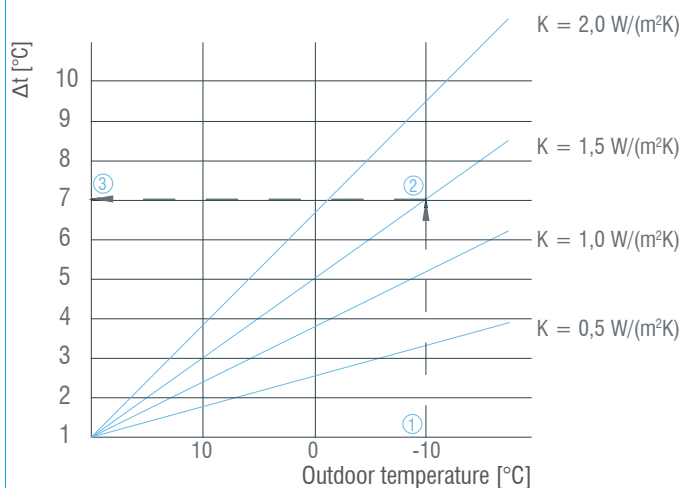


Diagram 2: Cold air velocity

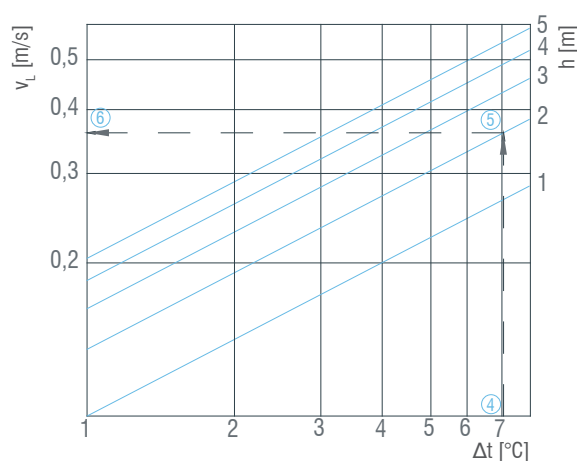
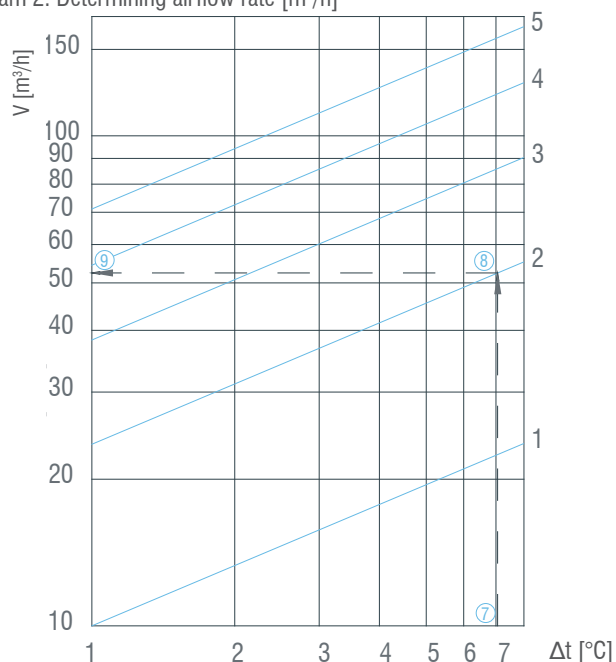


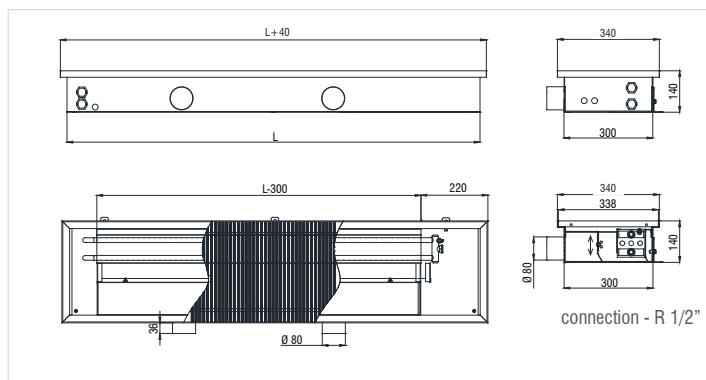
Diagram 2: Determining airflow rate [m³/h]



OPTIONS

Fresh air supply - PKS

- fresh air supply connection with a flow damper.



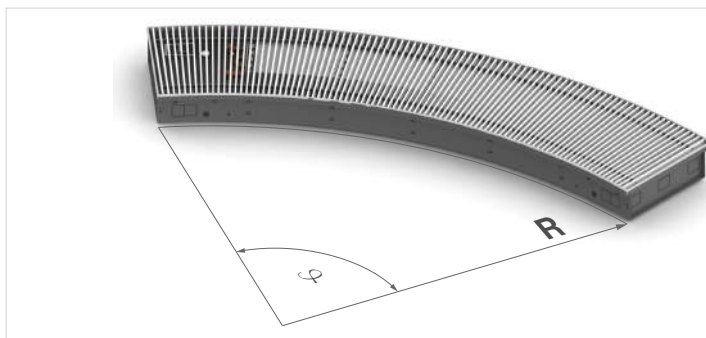
EBM EC - electronically controlled motors

- electronic control
- up to 30% more efficient than conventional motors
- low noise levels
- remote control via ModBus



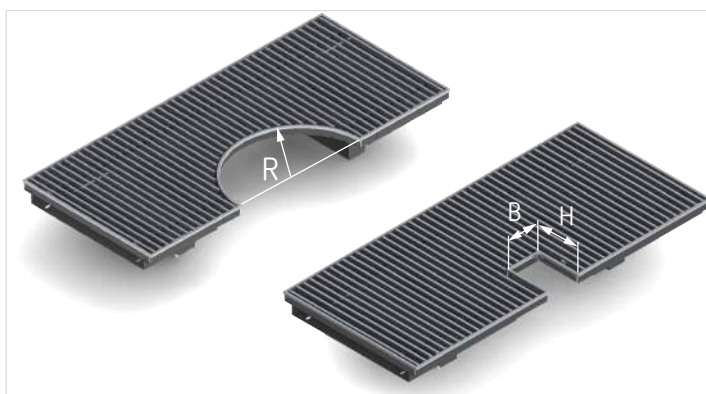
Curved section (QL-518)

Ordering key:	QL-518	110	2	1000	90
Convactor height	70, 110, 130, 140, 150				
No. of rows	1, 2, 3				
Radius R					
Angle φ					



Empty section with round/rectangular cut-out (QL-517)

Ordering key:	QL-517	110	2	80x120
Convactor height	70, 110, 130, 140, 150			
No. of rows	1, 2, 3			
Cut-out dimensions R / BxH				



OPTIONS

Connecting section QL-512

- Universal connection module
- Fully customizable module (4 different possibilities)
- All modules can be shortened on site up to 100mm
- Available lengths: 250, 500 and 1000 mm
- Option: load bearing cover (QL-515)

Ordering key: QL-512 110 2 R
 Convactor height
 70, 110, 130, 140, 150
 No. of rows
 1, 2, 3
 Grille type (R - roll-up / F - linear)



End
section



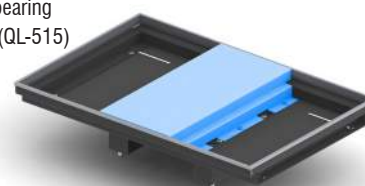
Empty
section



Connecting
section

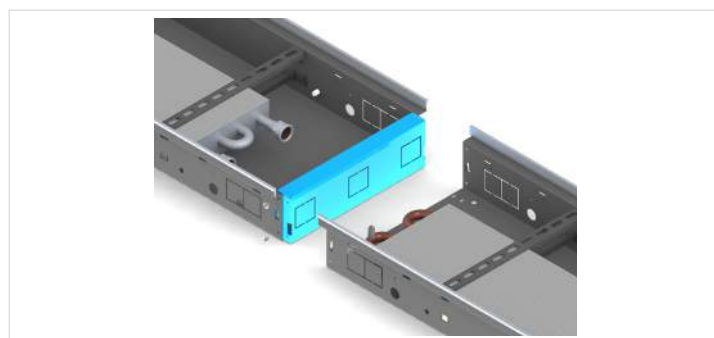


Load bearing
cover (QL-515)



Connection piece (QL-516)

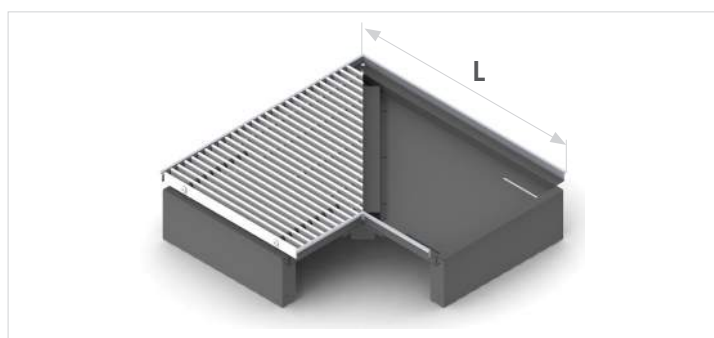
Ordering key: QL-516 110 2
 Convactor height
 70, 110, 130, 140, 150
 No. of rows
 1, 2, 3



Corner connection (QL-519 roll up grille / QL-520 linear grille)

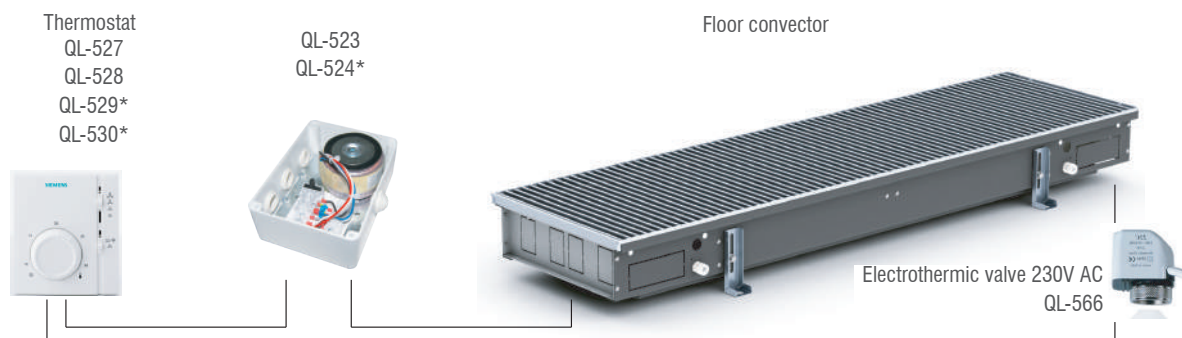
Ordering key: QL-519 110 2
 Convactor height
 70, 110, 130, 140, 150
 No. of rows
 1, 2, 3

No. of rows	1-row	2-row	3-row
L [mm]	300	400	500



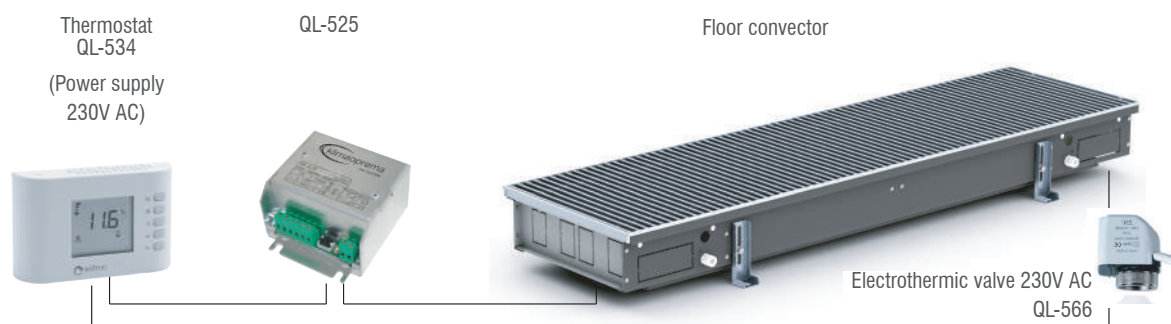
CONTROL OPTIONS

230V AC (3-speed regulation)

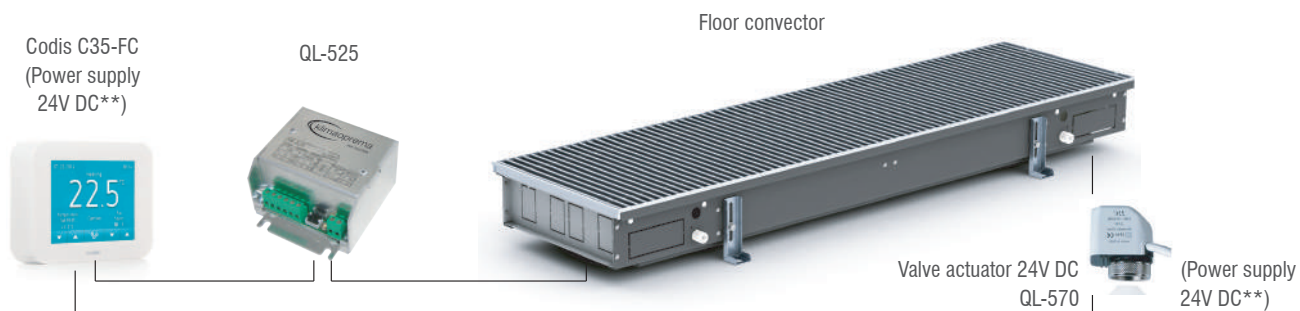


* Relay plate must be included

230V AC (0-10V regulation)

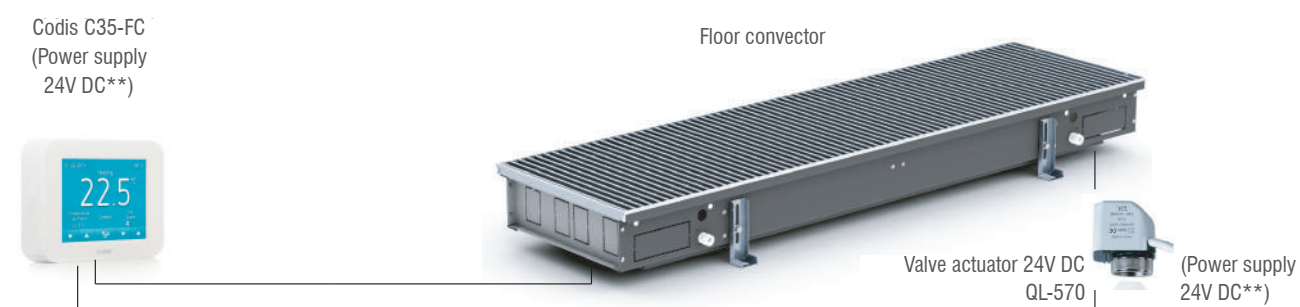


230V AC (0-10V regulation)



**Power supply 24V DC should be provided externally

24V EC (0-10V regulation)

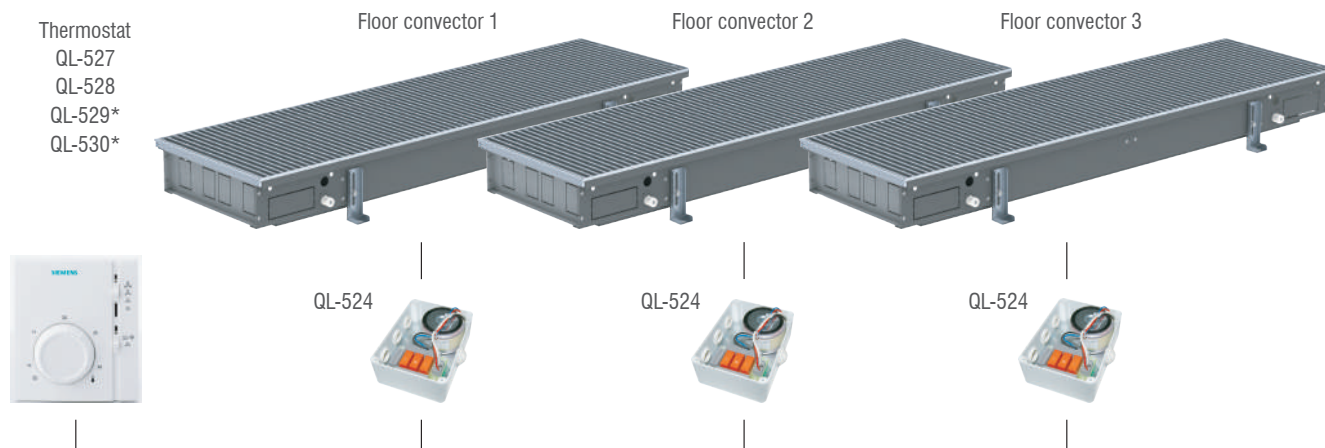


**Power supply 24V DC should be provided externally

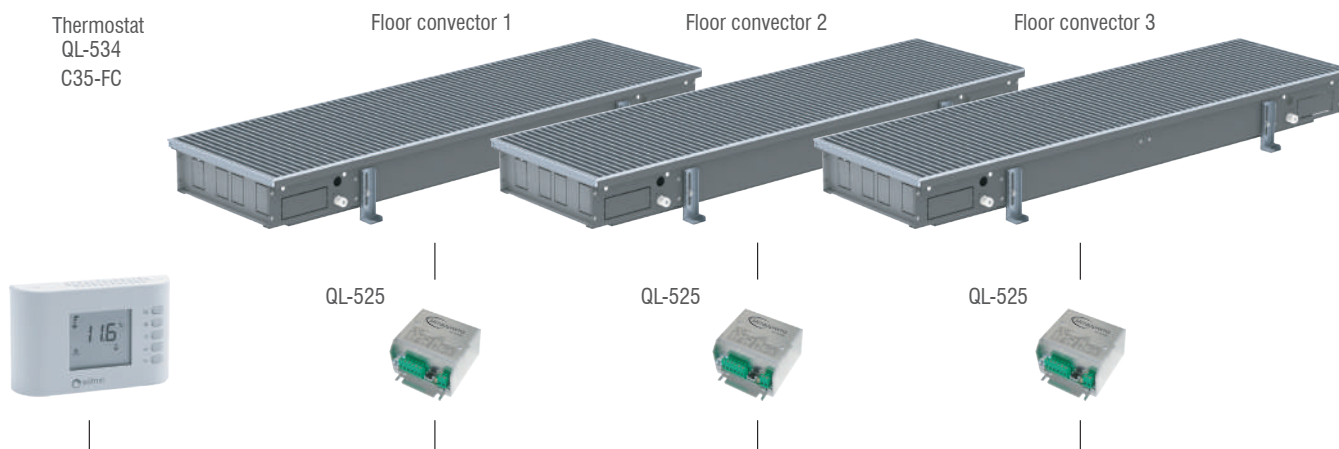
Connecting multiple convectors with one thermostat

- Relay plate QL-524
- Number of relay plates is equal to number of autotransformers that control the group of convectors
- Power supply, motors and electrothermic valves are connected to relay plate
- Relay plate is placed together with the autotransformer in the junction box
- If thermostats QL-529 or QL-530 are used, connection of the relay plate is necessary

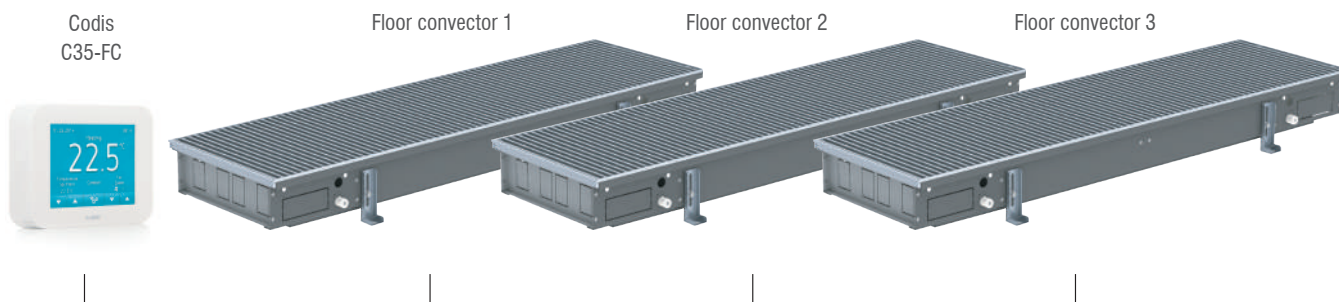
230V AC (3-speed regulation)



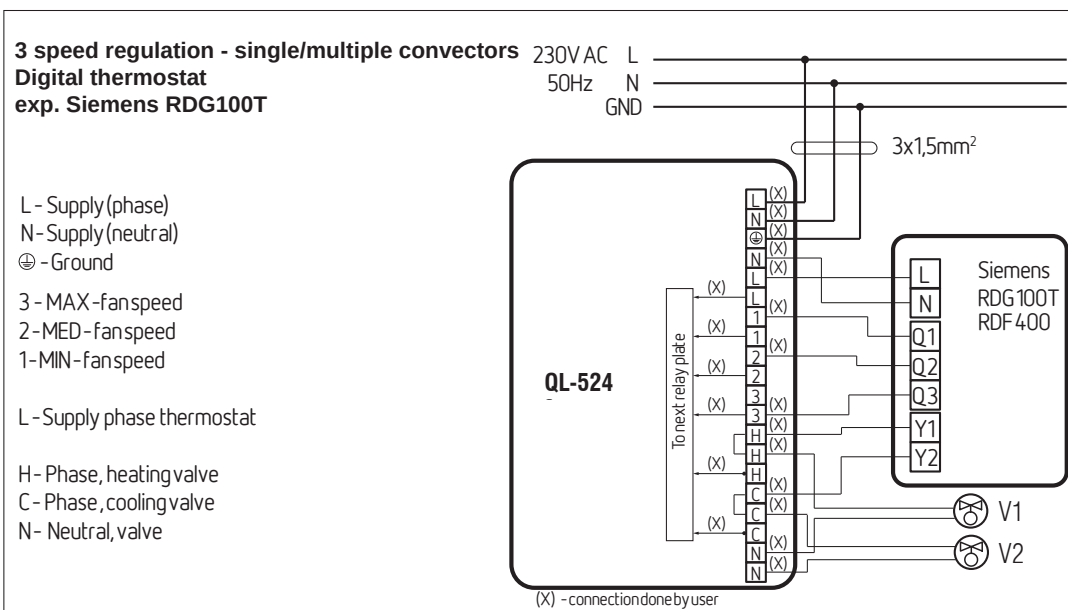
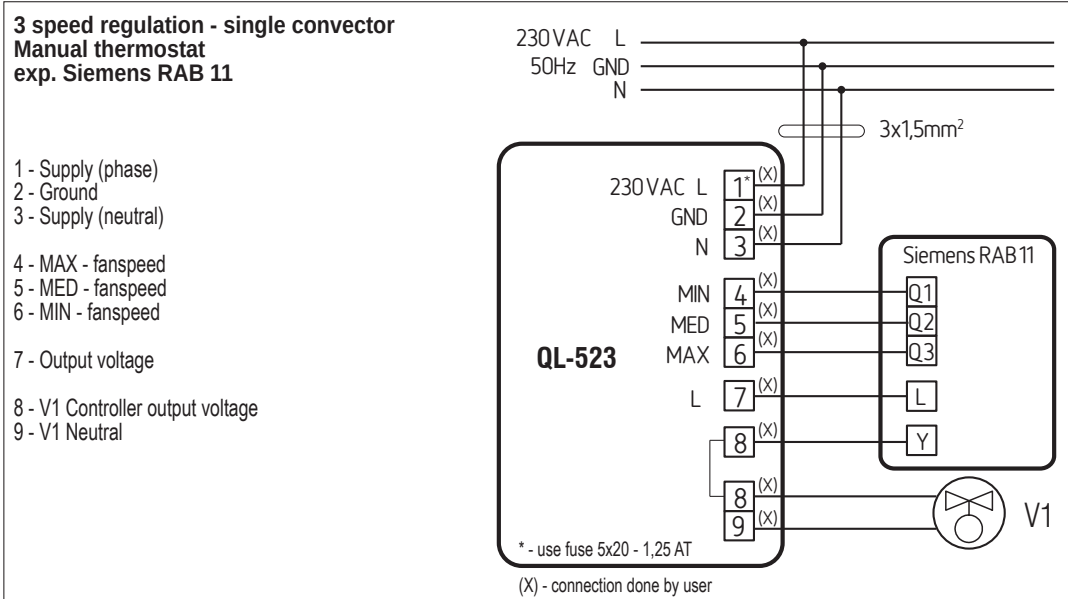
230V AC (0-10V regulation)



24V EC (0-10V regulation)



WIRING DIAGRAMS



0-10V regulation - single/multiple convectors
Digital thermostat
exp. Seitron TFZ01M

230V AC L
50Hz N
GND

3x1,5mm²

QL-525

1
2
3
4 (X)
5
6 (X)
7 (X)
8
9
10 (X)
11 (X)

Seitron

L
N
5
6
7
11 IN
12

V2
V1

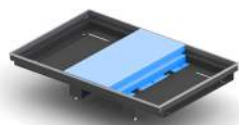
(X) - connection done by user

The schematic diagram illustrates the power supply and control circuit. It features a power supply section with a 24V AC/DC input, a transformer (S1), and a rectifier bridge (D1) with three output voltages (VO1, VO2, VO3). A motor (M1) is connected to VO1. A control section includes a BACnet interface (S1) connected to GND and BIN1, and two RTD sensors (T1) connected to GND and RTD. The motor (M1) is also connected to GND and VO1.

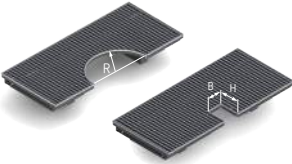
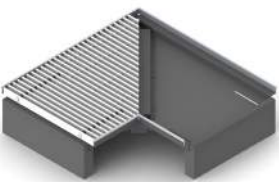
ACCESSORIES

Image	Description	Code	Suitable for
	Roll-up aluminium grille (anodized in natural color)	QL-501-1	All models - 1 row
		QL-501-2	All models - 2 row
		QL-501-3	All models - 3 row
	Roll-up al. grille - anodized (light bronze, bronze, light brown, brown, black)	QL-502-1	All models - 1 row
		QL-502-2	All models - 2 row
		QL-502-3	All models - 3 row
	Roll-up al. grille - RAL...	QL-503-1	All models - 1 row
		QL-503-2	All models - 2 row
		QL-503-3	All models - 3 row
	Linear aluminium grille (anodized in natural color)	QL-504-1	All models - 1 row
		QL-504-2	All models - 2 row
		QL-504-3	All models - 3 row
	Linear al. grille - anodized (light bronze, bronze, light brown, brown, black)	QL-505-1	All models - 1 row
		QL-505-2	All models - 2 row
		QL-505-3	All models - 3 row
	Linear al. grille - RAL...	QL-506-1	All models - 1 row
		QL-506-2	All models - 2 row
		QL-506-3	All models - 3 row
	Roll-up grille - beech	QL-507-1	All models - 1 row
		QL-507-2	All models - 2 row
		QL-507-3	All models - 3 row
	Roll-up grille - oak	QL-508-1	All models - 1 row
		QL-508-2	All models - 2 row
		QL-508-3	All models - 3 row
	Roll-up grille - cherry	QL-509-1	All models - 1 row
		QL-509-2	All models - 2 row
		QL-509-3	All models - 3 row
	Roll-up grille - inox	QL-510-1	All models - 1 row
		QL-510-2	All models - 2 row
		QL-510-3	All models - 3 row

ACCESSORIES

Image	Description	Code	Suitable for	
	Optional F frame	QL-511	All models	
	Inactive section set (L=250 mm)	QL-512-701	PKN 70	1-row
		QL-512-702		2-row
		QL-512-703		3-row
		QL-512-111	PKN 110 / PKF 110	1-row
		QL-512-112		2-row
		QL-512-113		3-row
		QL-512-132	PKH 130	
		QL-512-141	PKN 140 / PKF 140	1-row
		QL-512-142		2-row
		QL-512-143		3-row
		QL-512-152	PKH 150	
	Inactive section set (L=500 mm)	QL-513-701	PKN 70	1-row
		QL-513-702		2-row
		QL-513-703		3-row
		QL-513-111	PKN 110 / PKF 110	1-row
		QL-513-112		2-row
		QL-513-113		3-row
		QL-513-132	PKH 130	
		QL-513-141	PKN 140 / PKF 140	1-row
		QL-513-142		2-row
		QL-513-143		3-row
		QL-513-152	PKH 150	
	Inactive section set (L=1000 mm)	QL-514-701	PKN 70	1-row
		QL-514-702		2-row
		QL-514-703		3-row
		QL-514-111	PKN 110 / PKF 110	1-row
		QL-514-112		2-row
		QL-514-113		3-row
		QL-514-133	PKH 130	
		QL-514-141	PKN 140 / PKF 140	1-row
		QL-514-142		2-row
		QL-514-143		3-row
		QL-514-153	PKH 150	
	Load bearing cover	QL-515-701	All models	1-row
		QL-515-702		2-row
		QL-515-703		3-row
	Casing connection piece	QL-516-701	PKN 70	1-row
		QL-516-702		2-row
		QL-516-703		3-row
		QL-516-111	PKN 110 / PKF 110	1-row
		QL-516-112		2-row
		QL-516-113		3-row
		QL-516-132	PKH 130	
		QL-516-141	PKN 140 / PKF 140	1-row
		QL-516-142		2-row
		QL-516-143		3-row
		QL-516-152	PKH 150	

ACCESSORIES

Image	Description	Code	Suitable for	
	Cut out section	QL-517-701	PKN 70	1-row
		QL-517-702		2-row
		QL-517-703		3-row
		QL-517-111	PKN 110 / PKF 110	1- row
		QL-517-112		2-row
		QL-517-113		3-row
		QL-517-132	PKH 130	
		QL-517-141	PKN 140 / PKF 140	1-row
		QL-517-142		2-row
		QL-517-143		3-row
		QL-517-152	PKH 150	
	Curved section	QL-518	All models	
	Corner section 90° Roll-up grille	QL-519-701	PKN 70	1-row
		QL-519-702		2-row
		QL-519-703		3-row
		QL-519-111	PKN 110 / PKF 110	1- row
		QL-519-112		2-row
		QL-519-113		3-row
		QL-519-132	PKH 130	
		QL-519-141	PKN 140 / PKF 140	1-row
		QL-519-142		2-row
		QL-519-143		3-row
		QL-519-152	PKH 150	
	Corner section 90° Linear grille	QL-520-701	PKN 70	1-row
		QL-520-702		2-row
		QL-520-703		3-row
		QL-520-111	PKN 110 / PKF 110	1- row
		QL-520-112		2-row
		QL-520-113		3-row
		QL-520-132	PKH 130	
		QL-520-141	PKN 140 / PKF 140	1-row
		QL-520-142		2-row
		QL-520-143		3-row
		QL-520-152	PKH 150	

ACCESSORIES

Image	Description	Code	Suitable for
	Filter G2	QL-521	PKF, PKH, PKH-4C (230V AC and 24V EC)
	External casing insulation	QL-522	All models
	Control box AT6	QL-523	PKF, PKH, PKH-4C (230V AC)
	Control box AT6-Relay	QL-524	PKF, PKH, PKH-4C (230V AC)
	Silent drive (230V AC; 0-10V)	QL-525	PKF, PKH, PKH-4C (230V AC)
	Room thermostat - wall (Siemens RAA 21)	QL-526	PKN
	Analog 3-step thermostat - wall (Siemens RAB 11)	QL-527	PKF, PKH (230V AC)
	Analog 3-step thermostat - wall (Siemens RAB 31)	QL-528	PKH-4C (230V AC)
	Digital thermostat - flush (Siemens RDF 510)	QL-529	PKF, PKH (230V AC)
	Digital thermostat - flush (Siemens 400.01)	QL-530	PKF, PKH, PKH-4C (230V AC)
	Frame for RDF thermostat	QL-531	
	Remote control for RDG and RDF	QL-532	
	Digital thermostat - wall (Siemens RDG 100T)	QL-533	PKF, PKH, PKH-4C (230V AC)
	Digital thermostat 0-10V - wall (Seitron TFZ01M)	QL-534	PKF, PKH, PKH-4C (230V AC)
	KOER Codis C35-FC (Temp.)	C35-FC	PKF, PKH, PKH-4C (230V AC and 24V EC)
	KOER Codis C35-FC-B/RS (Temp.-BACnet)	C35-FC-B/RS	
	KOER Codis C35-FC-H (Temp.-Humidity)	C35-FC-H	
	KOER Codis C35-FC-H-B/RS (Temp.-Humidity-BACnet)	C35-FC-H-B/RS	

ACCESSORIES

Image	Description	Code	Suitable for
	Service valve 1/2" Service valve 3/4"	QL-535 QL-536	All models
	Radiator valve straight 1/2" Radiator valve angled 1/2"	QL-537 QL-538	All models
	Thermostatic valve straight 1/2" Thermostatic valve straight 3/4"	QL-539 QL-540	All models
	Thermostatic valve angular 1/2" Thermostatic valve angular 3/4"	QL-541 QL-542	All models
	Lockshield valve straight 1/2" Lockshield valve straight 3/4"	QL-543 QL-544	All models
	Lockshield valve angled 1/2" Lockshield valve angled 3/4"	QL-545 QL-546	All models
	3-way valve 1/2" 3-way valve 3/4"	QL-547 QL-548	All models
	4-way valve 1/2" 4-way valve 3/4"	QL-549 QL-550	All models
	Balancing valve 1/2" Balancing valve 3/4"	QL-551 QL-552	All models
	Flexible couplings 1/2" Flexible couplings 3/4"	QL-553 QL-554	All models

ACCESSORIES

Image	Description	Code		Suitable for
	Thermostat head	QL-555		All models
	Thermostat head - RAL 9016	QL-556		All models
	Thermostat head - RAL 9005	QL-557		All models
	Thermostat head - metal matte	QL-558		All models
	Thermostat head - metal chrome	QL-559		All models
	Thermostat head - white chrome	QL-560		All models
	Cable temperature sensor	QL-561		All models
	Thermostat head with remote regulator	2m	QL-562	All models
		5m	QL-563	All models
		8m	QL-564	All models
	Thermostat head with remote regulator and temperature sensor	QL-565		All models
	Thermal valve actuator 230V AC (NC)	QL-566		All models
	Thermal valve actuator 24V AC (NC)	QL-567		
	Thermal valve actuator 230V AC (NO)	QL-568		
	Thermal valve actuator 24V AC (NO)	QL-569		
	Valve actuator 24V DC; 0-10V	QL-570		All models
	Condensate pump	QL-571		All models
	Magnet switch - window/door	QL-572		All models

FLOOR CONVECTORS - PKN, PKF

Standard delivery:

Steel and aluminium parts powder coated in RAL 9005		Leveling mounts for height adjustment and casing fixing	
Efficient low volume heat exchanger with bleed valve 1/4"		Protective plywood cover	
Silent 230V AC or 24V EC tangential fans		Service cover	
Leveling screws		PVC foil and carton box packaging with polystyrene corner and side protection	
Standard U frame		Installation and operation manual	
Ground terminal		Air valve on heat exchanger	

Ordering key

Accessories

Type	PKF - 110 - 1 - 2000	QL-xxx
PKN / PKF / PKH / PKH-4C PKF-EC / PKH-EC / PKH-4C-EC		
Casing height		
70 (PKN); 110 (PKN, PKF); 130 (PKH, PKH-4C), 140 (PKN, PKF); 150 (PKH, PKH-4C)		
1 - row width 210/250 mm		
2 - row width 300/340 mm		
3 - row width 400/440 mm		
Casing length [mm]		

