

FLOOR CONVECTORS

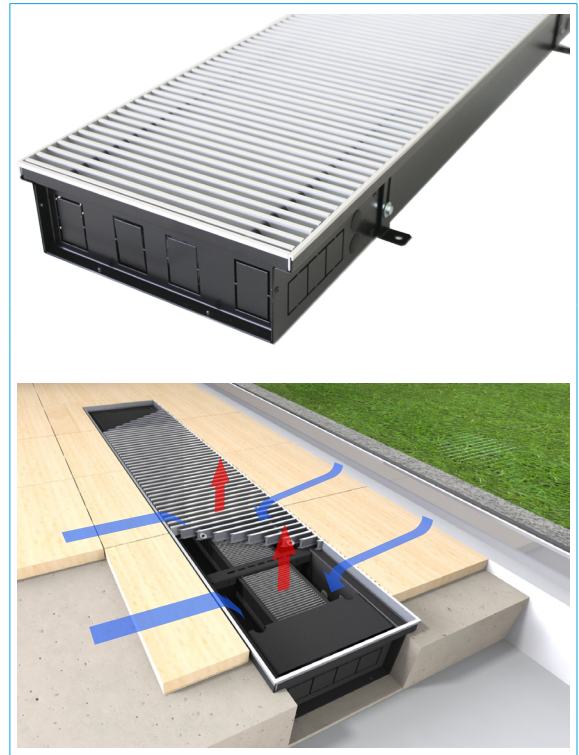
PKN

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 tick 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

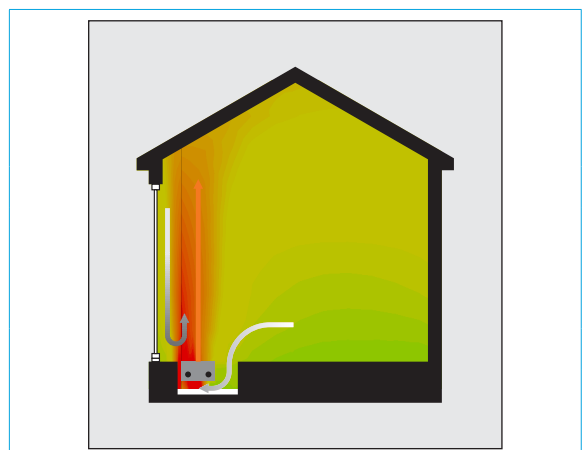
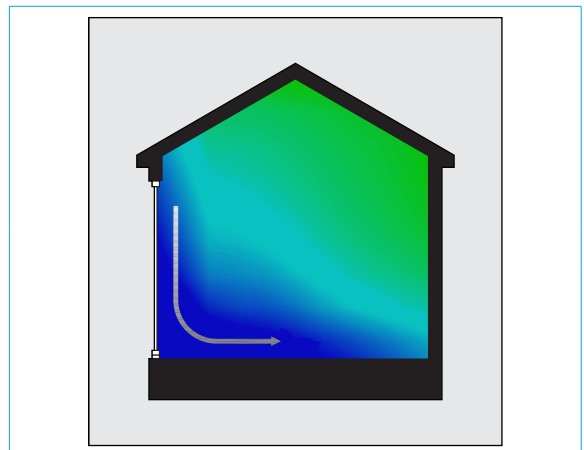
Heat exchangers provide rapid heat transfer due to large heat exchange surface. It is especially beneficial in combination with slow heating systems.

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

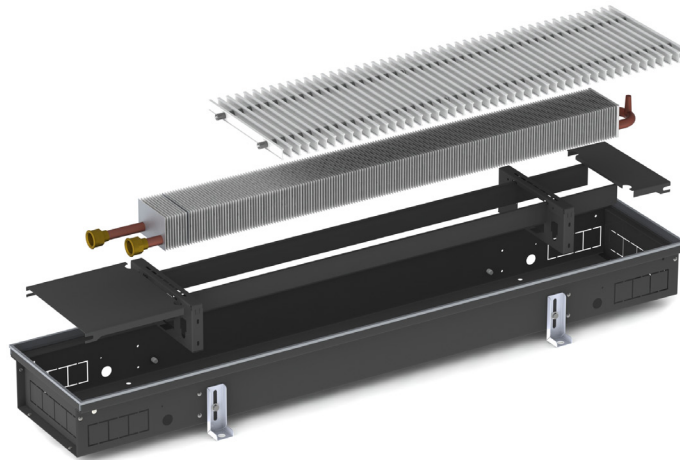
Compared to classical heating systems, floor convectors are not using up usefull space nor interfering with room arrangement.



PKN | NATURAL CONVECTION
HEATING

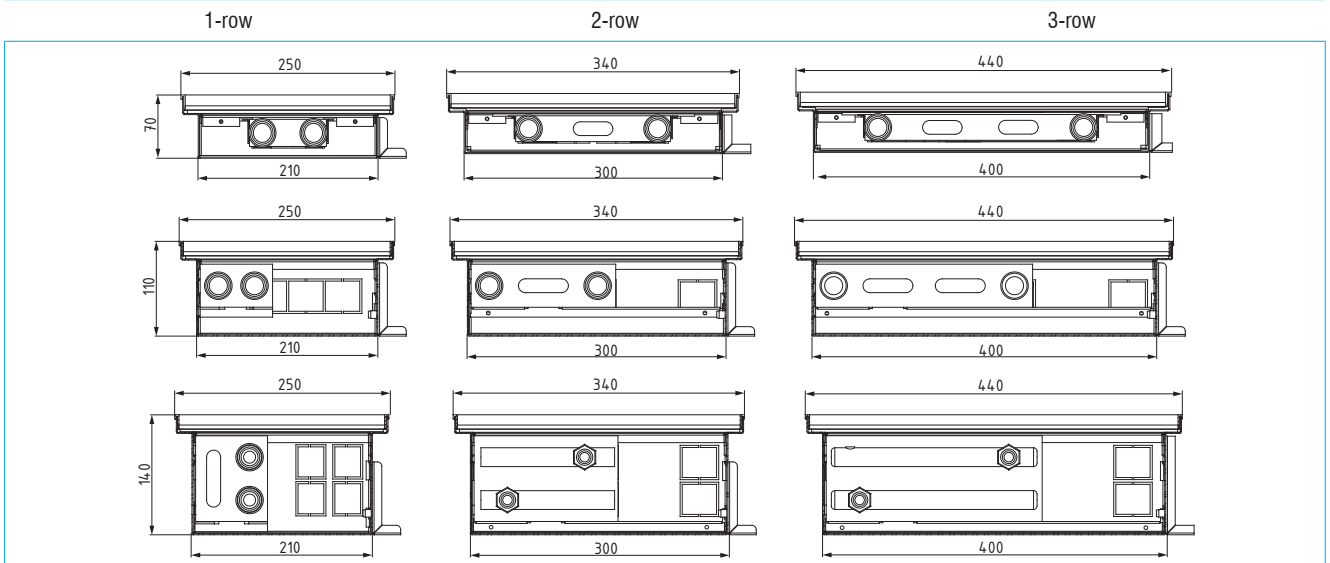
Natural convection is used for heat transfer from heating element to the surrounding air. Cold air is heavier and falls to the bottom of the casing. Air is then heated by a heat exchanger. As it gets warmer, it rises, and leaves the room for new cold air to fill the casing.

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

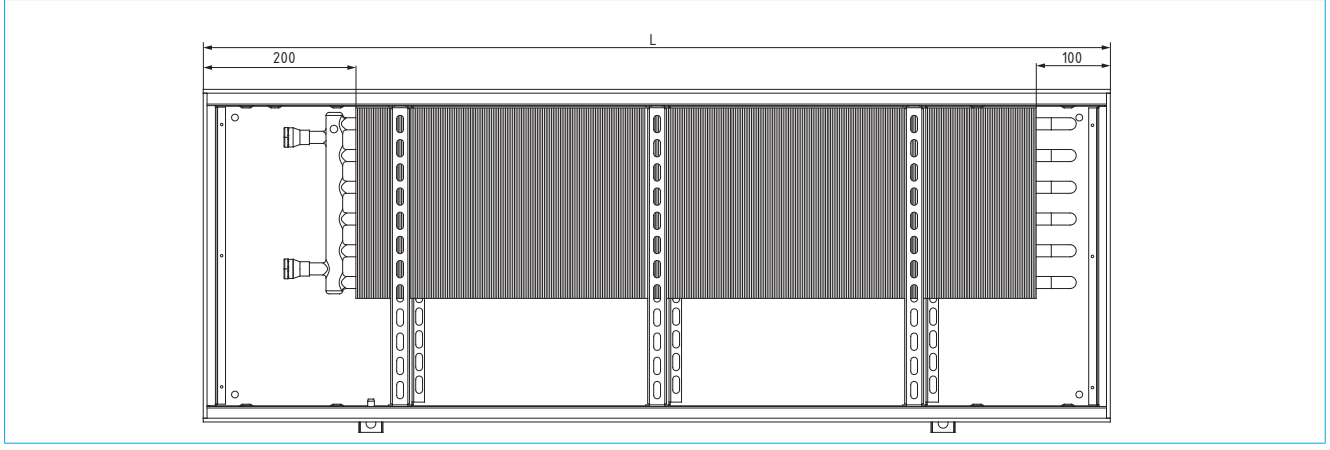
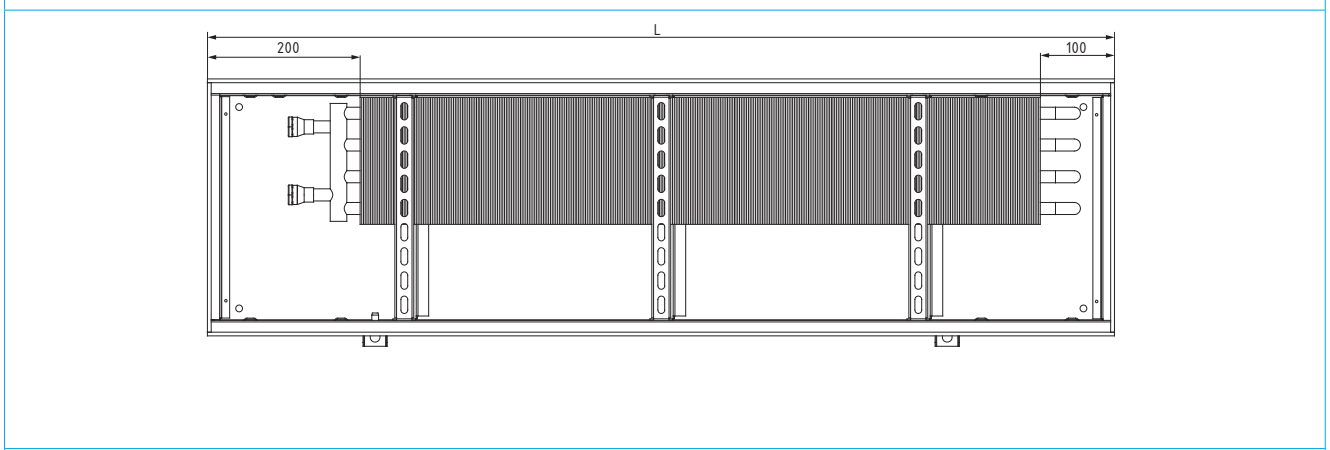
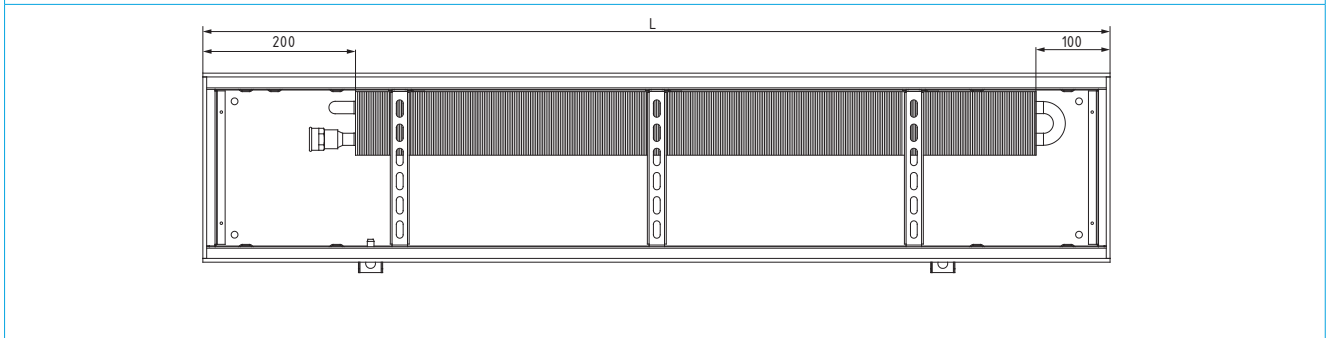

Heat output [W] - PKN

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

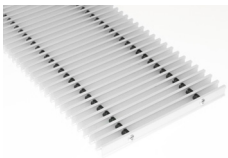
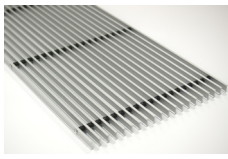
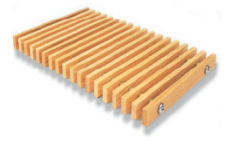

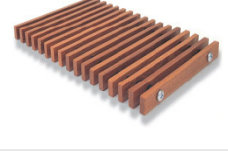
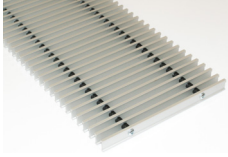
Dimensions - PKN




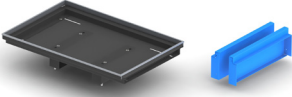
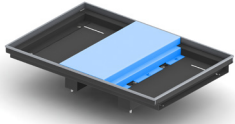
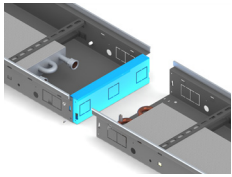
*water connections R1/2"



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

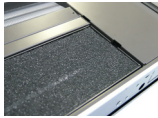













ACCESSORIES

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
	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
		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
	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
	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
	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

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**

PKN / PKF / PKH / PKH-4C
PKF-EC / PKH-EC / PKH-4C-EC

QL-xxx

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]