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EN **EURO NORM**
442

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EN **EURO NORM**
16430

TESTED



Floor Convectors
LC/SC

LC/SC Series

Floor Convectors

STEKON floor convectors are designed to provide high levels of thermal comfort in living spaces with large glazed surfaces. This is achieved by creating a thermal curtain in front of the window surface, helping to reduce heat loss and prevent condensation on the glass. The convectors provide warm air circulation through a hot water heat exchanger, either with or without fan assistance, depending on the required heating capacity.

LC series fan-assisted convectors operate with a safe 24 V DC power supply. Their integrated EC fans offer very low energy consumption and can adjust their speed according to a control signal from a room thermostat or building automation system. The units are suitable for 0–10 V input signals.

- Room thermostat
- Building management system
- Integrated Speed Regulator

Room Thermostat

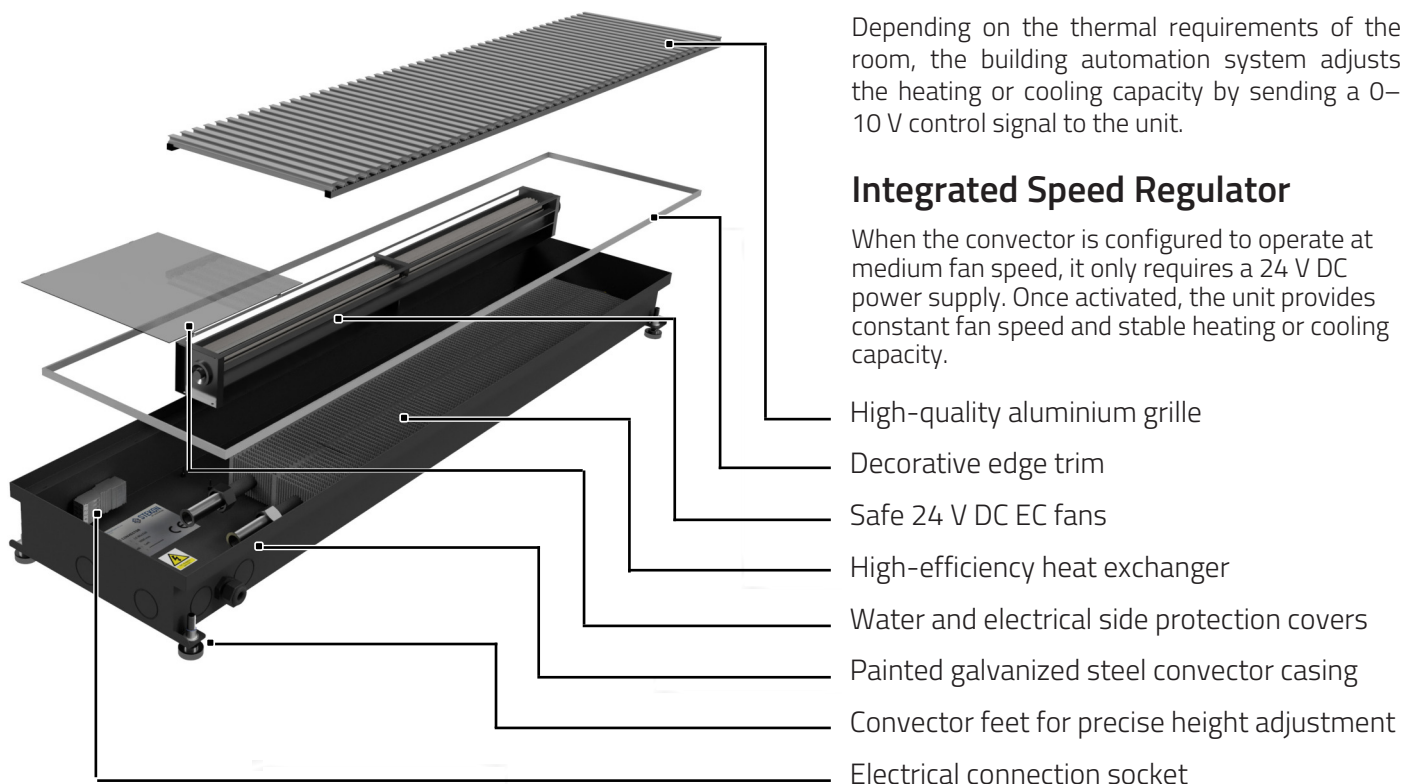
The room thermostat controls the unit by sending a 0–10 V signal according to the setpoint and the actual room temperature. It enables heating/cooling mode selection and controls the valves.

Building Automation System

Depending on the thermal requirements of the room, the building automation system adjusts the heating or cooling capacity by sending a 0–10 V control signal to the unit.

Integrated Speed Regulator

When the convector is configured to operate at medium fan speed, it only requires a 24 V DC power supply. Once activated, the unit provides constant fan speed and stable heating or cooling capacity.

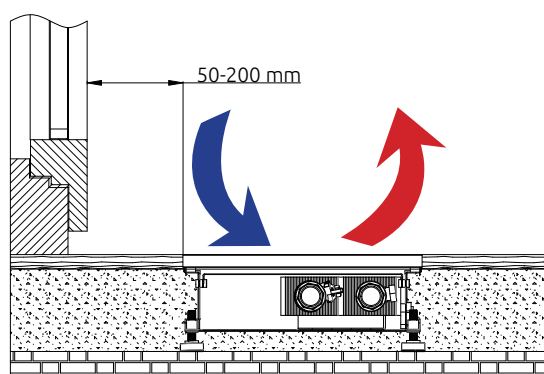
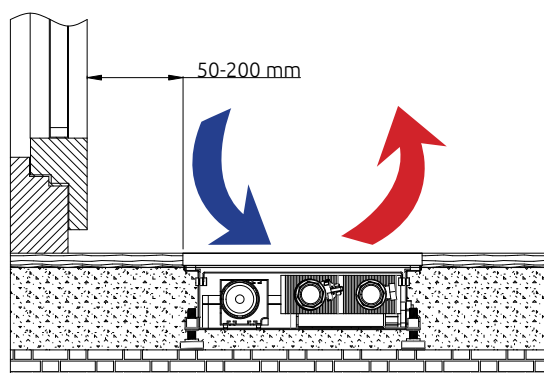




Application

STEKON floor convectors are used in front of glazed façades, within the screed, or in raised floor applications. With various grille alternatives, they can meet different aesthetic expectations. Their recessed installation saves floor space and supports interior design flexibility.

Floor convectors can be used for primary or supplementary heating. In primary heating applications, they are selected to meet the full heating demand of the space. The selected model and unit length play an important role in the design. In supplementary heating applications, they are generally used in spaces already heated by air handling units, fan coils, or similar systems, to reduce cold draught and discomfort near glazed surfaces. They can also help prevent condensation or misting on glass surfaces in high-humidity environments.



Advantages

- Fan-assisted and natural convection options
- Low energy consumption with safe 24 V DC power supply
- One-piece convector lengths from 1000 mm to 3000 mm
- Convector heights of 65 / 80 / 110 / 115 mm
- Various grille and frame options
- Special coating options
- Ultra-quiet cross-flow fans
- Proportional fan speed control with 0–10 V control signal
- Wago or Klemmsan connection system in accordance with EN 60998
- All convectors are tested by independent accredited laboratories according to EN 442-2, EN 16430-2 and EN 16430-3

Construction, Materials

- Painted galvanized steel casing
- Aluminium grilles and frames
- Aluminium fin and copper tube heat exchanger
- Black painted galvanized steel fan housing and alu fan blades

Accessories, Special Variations

- 0–10 V or on/off control options
- Grille options parallel to the long or short side
- Anodized or RAL painted grilles
- Angled corner connection pieces
- Curved convector casing to suit architectural requirements

Selection Recommendations

- Determine whether the convector will be used as the main or supplementary heat source for the room.
- Define the total heat loss of the room and the required capacity to be supplied by the convector.
- Check whether a natural convection unit can provide the required heating capacity, or whether fan assistance is needed.
- Consider the available length and cross-sectional space for sizing the convector.
- Determine a suitable location for the transformers required for fan-assisted convectors with 24 V DC output.
- Determine a suitable location for the room thermostat.
- Arrange the installation by considering the water connection and wiring requirements of the convector.

Floor Convectors

LC 80 Series Fan-Assisted Floor Convectors

- Suitable for offices, living areas and winter gardens
- High forced convection efficiency
- Low energy consumption and low noise level with 24 V DC fans
- 3-step fan speed control with 0–10 V signal
- Suitable for use together with other heating systems
- Suitable for dry heating applications
- 2-pipe system



Technical Data

Floor Convector

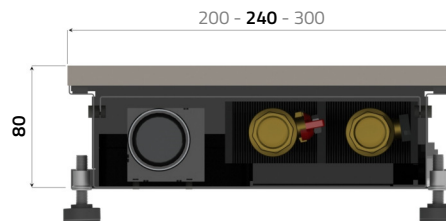
Height	H = 80 mm
Width	W = 200 - 240 - 300 mm
Length	L = 1000 - 3000 mm

Heat Exchanger

Type	Al-Cu finned
Length	L-250 mm
Connection Type	2 x G $\frac{1}{2}$ " threaded

Operating Conditions

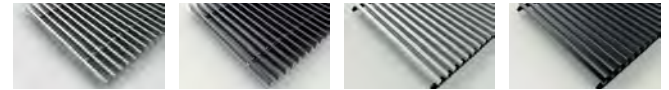
Max. temperature	110 °C
Max. pressure	1 MPa (10 bar)
Ambient Conditions	Temperature = +2 - 40 °C Relative Humidity = 20 - 70 %



Decorative Trim Options



Walkable Grille Options



Convector Power Table

Convector Length (mm)	1000	1250	1500	1750	2000	2250	2500	2750	3000
Number of Fans	1	1	2	2	2	3	3	3	3
Input Power (W)	3,6	3,6	7,2	7,2	7,2	10,8	10,8	10,8	10,8

75/65, 20 °C

Length (mm)	Heating Capacity (W)								
	LC 80 200			LC 80 240			LC 80 300		
	Fan Speed			Fan Speed			Fan Speed		
	1	2	3	1	2	3	1	2	3
1000	428	482	599	772	929	1198	984	1148	1479
1250	581	654	811	1047	1261	1626	1334	1558	2000
1500	732	827	1026	1321	1592	2053	1684	1968	2532
1750	885	999	1241	1597	1924	2482	2035	2377	3060
2000	1038	1172	1454	1873	2256	2909	2387	2787	3586
2250	1192	1346	1669	2147	2589	3337	2734	3199	4115
2500	1344	1515	1882	2423	2919	3765	3089	3607	4642
2750	1497	1690	2096	2699	3253	4192	3437	4019	5168
3000	1649	1861	2310	2975	3583	4620	3812	4425	5696

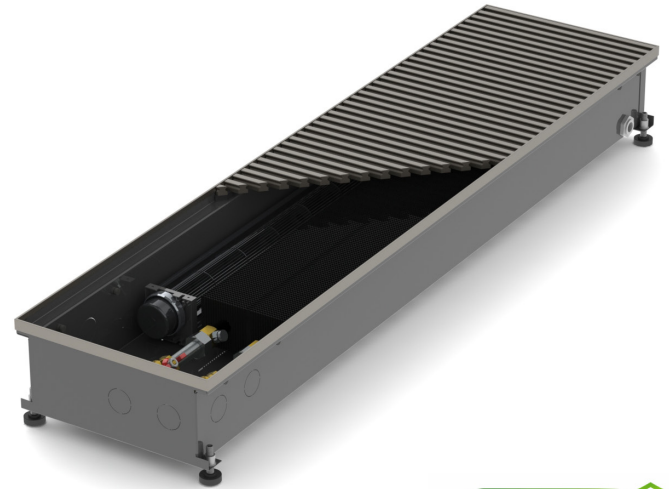
55/45, 20 °C

Length (mm)	Heating Capacity (W)								
	LC 80 200			LC 80 240			LC 80 300		
	Fan Speed			Fan Speed			Fan Speed		
	1	2	3	1	2	3	1	2	3
1000	305	343	427	565	680	877	725	846	1090
1250	414	466	578	766	923	1190	983	1148	1474
1500	522	590	732	967	1165	1503	1241	1450	1866
1750	631	712	885	1169	1408	1816	1500	1752	2255
2000	740	835	1037	1371	1651	2129	1759	2054	2642
2250	850	959	1190	1572	1895	2443	2015	2357	3032
2500	958	1080	1342	1773	2137	2756	2276	2657	3421
2750	1067	1205	1494	1975	2381	3068	2532	2961	3808
3000	1176	1326	1646	2177	2623	3381	2809	3261	4197

LC 110 Series

Fan-Assisted Floor Convectors

- Suitable for offices, living areas and winter gardens
- High forced convection efficiency
- Low energy consumption and low noise level with 24 V DC fans
- 3-step fan speed control with 0–10 V signal
- Suitable for use together with other heating systems
- Suitable for dry heating applications
- 2-pipe system



Technical Data

Floor Convector

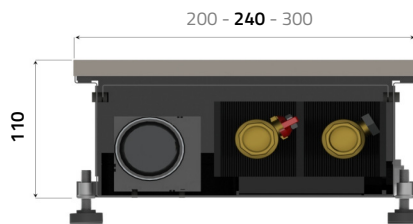
Height	H = 110 mm
Width	W = 200 - 240 - 300 mm
Length	L = 1000 - 3000 mm

Heat Exchanger

Type	Al-Cu finned
Length	L-250 mm
Connection Type	2 x G $\frac{1}{2}$ " threaded

Operating Conditions

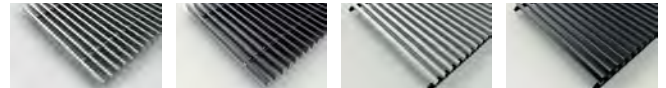
Max. temperature	110 °C
Max. pressure	1 MPa (10 bar)
Ambient Conditions	Temperature = +2 - 40 °C Relative Humidity = 20 - 70 %



Decorative Trim Options



Walkable Grille Options



Convector Power Table

Convector Length (mm)	1000	1250	1500	1750	2000	2250	2500	2750	3000
Number of Fans	1	1	2	2	2	3	3	3	3
Input Power (W)	4,2	4,2	8,4	8,4	8,4	12,6	12,6	12,6	12,6

75/65, 20 °C

Length (mm)	Heating Capacity (W)								
	LC 110 200			LC 110 240			LC 110 300		
	Fan Speed			Fan Speed			Fan Speed		
	1	2	3	1	2	3	1	2	3
1000	517	549	625	936	1063	1256	1164	1282	1513
1250	702	746	849	1269	1443	1708	1580	1740	2052
1500	885	942	1072	1604	1822	2154	1996	2199	2593
1750	1070	1138	1295	1938	2202	2602	2412	2656	3132
2000	1255	1335	1519	2272	2582	3051	2827	3114	3672
2250	1441	1533	1742	2608	2962	3499	3242	3573	4211
2500	1625	1727	1966	2941	3341	3948	3660	4029	4752
2750	1811	1926	2189	3277	3722	4396	4074	4488	5291
3000	1993	2121	2412	3610	4101	4846	4516	4944	5832

55/45, 20 °C

Length (mm)	Heating Capacity (W)								
	LC 110 200			LC 110 240			LC 110 300		
	Fan Speed			Fan Speed			Fan Speed		
	1	2	3	1	2	3	1	2	3
1000	369	391	446	683	776	917	858	944	1115
1250	500	532	605	927	1053	1247	1164	1282	1512
1500	631	672	764	1171	1330	1572	1470	1620	1910
1750	763	811	923	1415	1607	1899	1777	1957	2307
2000	894	952	1083	1659	1885	2227	2083	2294	2705
2250	1027	1093	1242	1904	2162	2554	2389	2632	3102
2500	1158	1231	1401	2147	2439	2882	2697	2969	3501
2750	1291	1373	1560	2392	2717	3209	3001	3307	3898
3000	1421	1512	1720	2635	2994	3537	3327	3643	4297

Floor Convectors

LC 65 Series

Fan-Assisted Floor Convectors

- Suitable for offices, living areas and winter gardens
- High forced convection efficiency
- Low energy consumption and low noise level with 24 V DC fans
- 3-step fan speed control with 0–10 V signal
- Suitable for use together with other heating systems
- Suitable for dry heating applications
- 2-pipe system



Technical Data

Floor Convector

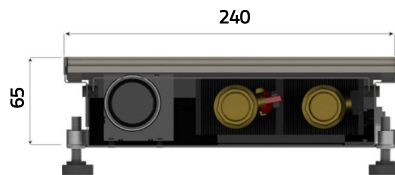
Height	H = 65 mm
Width	W = 240 mm
Length	L = 1000 - 3000 mm

Heat Exchanger

Type	Al-Cu finned
Length	L-250 mm
Connection Type	2 x G½" threaded

Operating Conditions

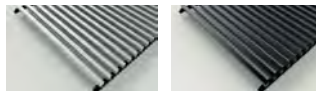
Max. temperature	110 °C
Max. pressure	1 MPa (10 bar)
Ambient Conditions	Temperature = +2 - 40 °C Relative Humidity = 20 - 70 %



Decorative Trim Options



Walkable Grille Options



Convector Power Table

Convector Length (mm)	1000	1250	1500	1750	2000	2250	2500	2750	3000
Number of Fans	1	1	2	2	2	3	3	3	3
Input Power (W)	3,6	3,6	7,2	7,2	7,2	10,8	10,8	10,8	10,8

75/65, 20 °C

Length (mm)	Heating Capacity (W)		
	Fan Speed	Fan Speed	Fan Speed
1000	731	1055	1269
1250	993	1432	1723
1500	1254	1809	2176
1750	1515	2186	2630
2000	1777	2562	3084
2250	2038	2939	3537
2500	2299	3316	3990
2750	2560	3693	4443
3000	2822	4070	4897

55/45, 20 °C

Length (mm)	Heating Capacity (W)		
	Fan Speed	Fan Speed	Fan Speed
1000	731	1055	1269
1250	993	1432	1723
1500	1254	1809	2176
1750	1515	2186	2630
2000	1777	2562	3084
2250	2038	2939	3537
2500	2299	3316	3990
2750	2560	3693	4443
3000	2822	4070	4897

LC 115 Series

Fan-Assisted Floor Convectors

HEATING

- Suitable for offices, homes and winter gardens
- High forced convection efficiency
- Low energy consumption and low noise level with 24 V DC fans
- 3- or 5-step fan speed control with 0–10 V signal
- Suitable for use together with other heating systems
- 2-pipe system
- The LC 115 series, offering high efficiency in low-temperature water regimes, is optimized for heat pump applications.



Technical Data

Floor Convector

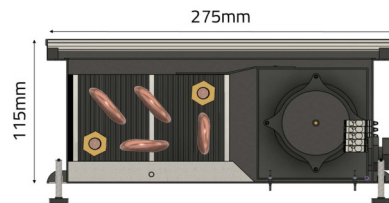
Height	H = 115 mm
Width	W = 275mm
Length	L = 1100 - 3000 mm

Heat Exchanger

Type	Al-Cu finned
Length	L-400 mm
Connection Type	2 x G½" threaded

Operating Conditions

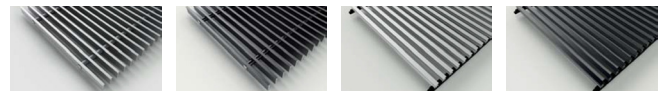
Max. temperature	110 °C
Max. pressure	1,6 MPa (16 bar)
Ambient Conditions	Temperature = +2 - 40 °C Relative Humidity = 20 - 70 %



Decorative Trim Options



Walkable Grille Options



Convector Power Table

Convector Length (mm)	1100	1250	1500	1750	2000	2250	2500	2750	3000
Number of Fans	1	1	1	2	2	2	3	3	3
Input Power (W)	13	13	13	26	26	26	39	39	39

75/65, 20 °C

Length (mm)	Heating Capacity (W)		
	Fan Speed 1	Fan Speed 2	Fan Speed 3
1100	731	1055	1269
1250	993	1432	1723
1500	1254	1809	2176
1750	1515	2186	2630
2000	1777	2562	3084
2250	2038	2939	3537
2500	2299	3316	3990
2750	2560	3693	4443
3000	2822	4070	4897

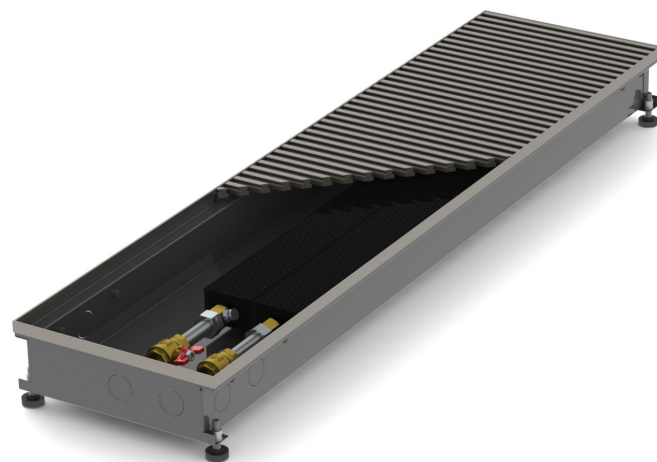
55/45, 20°C

Length (mm)	Heating Capacity (W)		
	Fan Speed 1	Fan Speed 2	Fan Speed 3
1100	263	390	517
1250	356	529	703
1500	450	668	888
1750	544	809	1072
2000	637	948	1257
2250	731	1087	1443
2500	824	1226	1628
2750	918	1365	1812
3000	1012	1504	1997

Floor Convectors

SC 80 Series Natural Floor Convectors

- Suitable for offices, corridors, living areas and winter gardens
- High natural convection efficiency
- Suitable for use together with other heating systems
- Suitable for dry heating applications
- 2-pipe system



Technical Data

Floor Convector

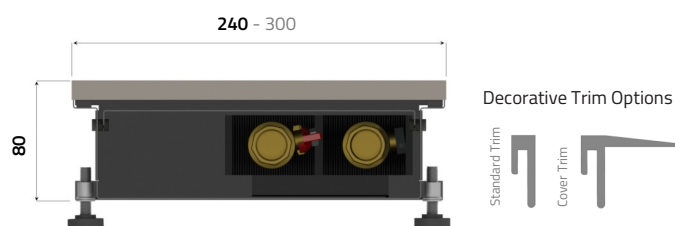
Height	H = 80 mm
Width	W = 200 - 240 - 300 mm
Length	L = 1000 - 3000 mm

Heat Exchanger

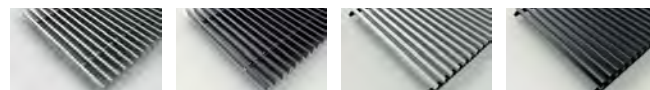
Type	Al-Cu finned
Length	L-250 mm
Connection Type	2 x G $\frac{1}{2}$ " male threaded

Operating Conditions

Max. temperature	110 °C
Max. pressure	1 MPa (10 bar)
Ambient Conditions	Temperature = +2 - 40 °C Relative Humidity = 20 - 70 %



Walkable Grille Options



80/60, 20 °C

Length (mm)	Heating Capacity (W)		
	SC 80 200	SC 80 240	SC 80 300
1000	143	188	215
1250	197	254	290
1500	251	321	367
1750	306	387	443
2000	360	454	520
2250	414	520	597
2500	468	588	673
2750	522	653	750
3000	577	722	826

70/50, 22 °C

Length (mm)	Heating Capacity (W)		
	SC 80 200	SC 80 240	SC 80 300
1000	103	126	146
1250	142	171	198
1500	181	216	250
1750	220	261	302
2000	259	305	354
2250	298	349	407
2500	337	396	458
2750	376	439	511
3000	415	485	563

SC 110 Series

Natural Floor Convectors

- Suitable for offices, corridors, living areas and winter gardens
- High natural convection efficiency
- Suitable for use together with other heating systems
- Suitable for dry heating applications
- 2-pipe system



Technical Data

Floor Convector

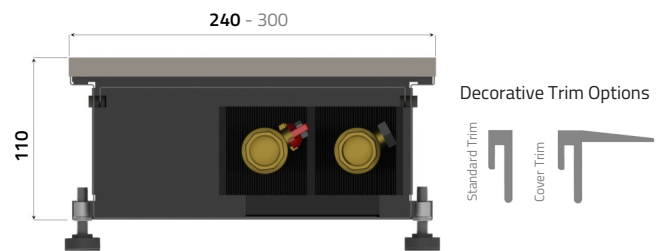
Height	H = 110 mm
Width	W = 200 - 240 - 300 mm
Length	L = 1000 - 3000 mm

Heat Exchanger

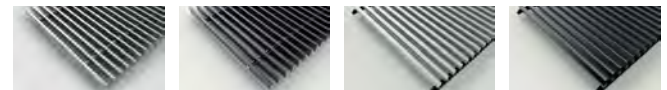
Type	Al-Cu finned
Length	L-250 mm
Connection Type	2 x G½" male threaded

Operating Conditions

Max. temperature	110 °C
Max. pressure	1 MPa (10 bar)
Ambient Conditions	Temperature = +2 - 40 °C Relative Humidity = 20 - 70 %



Walkable Grille Options



80/60, 20 °C

Length (mm)	Heating Capacity (W)		
	SC110 200	SC 110 240	SC 110 300
1000	177	245	324
1250	245	332	441
1500	312	419	556
1750	379	506	672
2000	446	593	788
2250	513	679	906
2500	581	767	1020
2750	648	853	1138
3000	715	942	1252

70/50, 22 °C

Length (mm)	Heating Capacity (W)		
	SC110 200	SC 110 240	SC 110 300
1000	128	166	220
1250	176	225	299
1500	224	284	378
1750	272	343	456
2000	321	402	536
2250	369	460	616
2500	417	520	693
2750	466	578	773
3000	514	638	850

Floor Convectors

STEKON SC – Technical Specification (Natural Convection Floor Convectors)

The heating convectors shall be natural convection type, supplied with an integrated casing, walkable grille and decorative frame, and shall be installed recessed into the concrete floor.

The unit casing shall be manufactured from powder coated galvanized steel. The casing height shall be minimum 65 mm and maximum 110 mm. The casing shall be equipped with height adjustment screws to allow precise levelling after installation. The heating coil inside the casing shall be made of copper tubes with aluminium fins. The maximum operating pressure of the coil shall be 10 bar, and the test pressure shall be 16 bar.

Walkable aluminium grilles with sufficient rigidity shall be supplied together with the unit to cover the convector casing. Architectural selections related to the grille, such as colour, frame option and similar details, shall be determined at a later stage. Accessories such as flexible connection hoses, ball valves and balancing valves shall be supplied together with the unit.

The convectors shall be capable of meeting the performance values specified in the equipment schedule. Heating capacity values shall be tested in accordance with EN 442-2, and the relevant test reports shall be available upon request by the consultant or the client.

STEKON LC – Technical Specification (Fan-Assisted Floor Convectors)

The heating convectors shall be fan-assisted type, supplied with an integrated casing, walkable grille and decorative frame, and shall be installed recessed into the concrete floor. Convection shall be provided by the tangential fan integrated inside the unit.

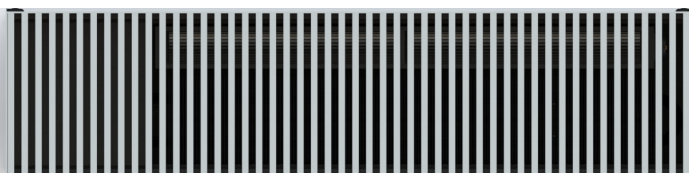
The unit casing shall be manufactured from powder coated galvanized steel. The casing height shall be minimum 65 mm and maximum 115 mm. The casing shall be equipped with height adjustment screws to allow precise levelling after installation. The heating coil inside the casing shall be made of copper tubes with aluminium fins. The maximum operating pressure of the coil shall be 10 bar, and the maximum test pressure shall be 16 bar.

For operational safety, the convector fan voltage shall be 24 V DC. The fan motors shall be equipped with EC technology and shall provide quiet operation.

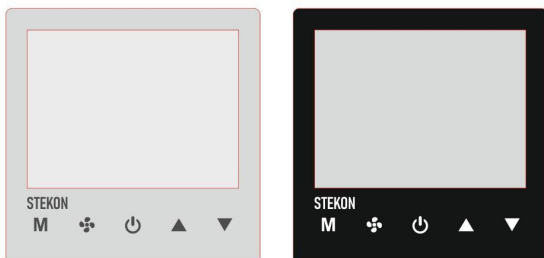
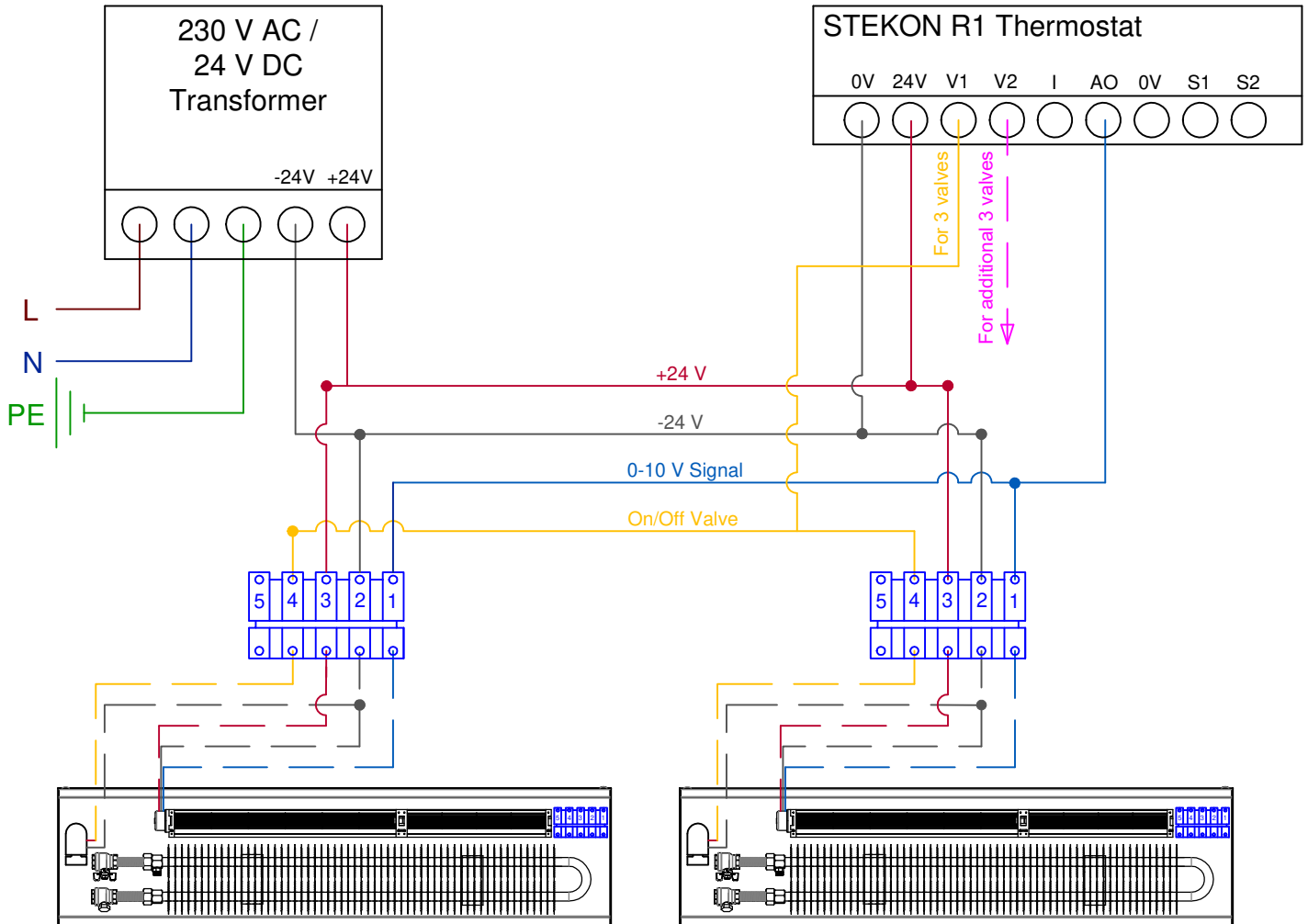
Walkable aluminium grilles with sufficient rigidity shall be supplied together with the unit to cover the convector casing. Architectural selections related to the grille, such as colour, frame option and similar details, shall be determined at a later stage. Accessories such as flexible connection hoses, ball valves and balancing valves shall be supplied together with the unit.

The room thermostat and the required transformers shall be offered separately from the unit.

The convectors shall be capable of meeting the performance values specified in the equipment schedule. Heating capacity values shall be tested in accordance with EN 16430, and the relevant test reports shall be available upon request by the consultant or the employer.



Wiring Diagram for Fan-Assisted Convectors with STEKON R1 Thermostat



- A 2-core cable shall be installed between the transformer and the convectors to provide 24 V DC +/- power supply.
- A 4-core cable shall be installed between the room thermostat and the convector closest to the thermostat. If more than 3 valves are to be controlled, a 5-core cable shall be used. A single thermostat cannot control more than 6 valves.
- Cable connections between the units shall be made in parallel according to the convectors to be controlled. Distances of 20 m and above are not recommended.

**Recommended cable cross-section: 1 - 1.5 mm².*

Floor Convectors

Removable Internal Mechanism Opt – IM

STEKON Floor Convectors can be manufactured with a removable internal mechanism upon request.

After the convector casings are manufactured quickly and delivered to site, the installation, fixing, screed application, flooring works and similar construction processes can be completed first. Afterwards, the tray containing the internal convector mechanism is placed into the existing casing. This helps eliminate the risk of damage that may occur due to construction dirt, site conditions or insufficient protection.

After the internal mechanism is installed, the electrical and water connections are completed. Once the finishing works are completed, the walkable grilles are finally placed on the convectors.

This option must be specified before order confirmation if required. It is applicable to all convector models.



Drainage Option – DR

STEKON Floor Convectors can be supplied with an integrated drainage pipe upon request.

Convectors used in indoor areas where water splashing may occur, such as indoor swimming pool surroundings, should be equipped with a drainage connection against possible water ingress.

This option must be specified before order confirmation if required.



Reliable Project Process with STEKON

In floor convector applications, STEKON supports its customers not only with product supply, but also with project selection support, technical consultancy, installation supervision and after-sales services.

Our processes, carried out within the scope of the ISO 9001:2015 Quality Management System, help ensure product quality and service continuity.



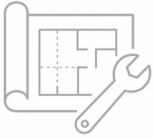
ISO 9001:2015 Quality Management System

We manage our quotation, project support, production, quality control and after-sales processes within the scope of the ISO 9001:2015 Quality Management System, with a traceable and sustainable structure.



5-Year Warranty on Fan Systems

We provide a 5-year warranty for the fan systems used in our fan-assisted floor convectors. This practice is an important part of our long-lasting and reliable system approach.



Project and Installation Support

We provide technical support to project teams for correct product selection, capacity verification, layout recommendations and application details. Upon request, we also offer site supervision support during the installation process.

Selected Floor Convector References



• Oyak Dragos İstanbul



• Lachin International Airport



• Sabancı Center İstanbul

Floor Convectors

Ordering Code

LC 80 / 240 / 1000 / SK / U / I / L1 / IM /DR

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

(1)	Model	LC	= Fan-Assisted Floor Convectors
		SC	= Natural Floor Convectors
(2)	Height	65	= 65mm
		80	= 80 mm
		110	= 110 mm
(3)	Width		= 200 - 240 - 275 - 300 mm
(4)	Length	1000	= 1000 - 3000 mm
(5)	Control Type	SK	= 0-10 V control
		OF	= Fixed speed on/off controll
(6)	Grilles	U	= Grille parallel to the long side
		K	= Grille parallel to the short side
(7)	Frame Type	I	= Standard frame
		F	= L frame
(8)	Water Connections	L1	= Water connection from left short side
		L2	= Water connection from left long side
		R1	= Water connection from right short side
		R2	= Water connection from right long side
(9)	Add. Option	IM	= Removable internal mechanism
(10)	Add. Option	DR	= Drainage connection

