

KORALINE

Free standing convectors with natural convection



NEW!

MORE THAN 50 YEARS

QUALITY – COMPLEXITY – INNOVATION – DESIGN

To have a reliable partner for solving with both large and small projects in the area of heating is not a question of price. We highly appreciate the close cooperation with all our customers. You are an endless source of inspiration for us. You make purpose to our work, and the quality of our products continuously increases, thanks to your eye for details.

SOLUTION FOR ANY TYPE OF BUILDING

A large shopping centre project or a small family house? Standard radiator or design convector that heats, heats up or cools down? Is it necessary to install the heating unit in an atypical manner? We satisfy any demand. Just make your selection.

ECONOMY – ECOLOGY – EFFICIENCY

Heating and recuperation units made by KORADO respect the need to reduce the energy demand of buildings. The performance of our units is optimal; air flow is superior, and power consumption is lower.



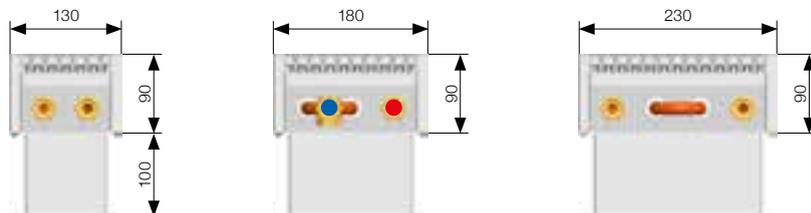
Convectors LICONHEAT s.r.o. are successfully distributed all over the world. They are manufactured in the Liberec production plant of LICONHEAT s.r.o. using the latest production technologies.

The headquarters of KORADO, a.s. is a modern European plant manufacturing radiators and heating units. Its technological equipment and layout on the area of 30,000 m² allows KORADO, a.s. further growth and development.

LIST OF MODELS

KORALINE Exclusive LKX

Free standing convectors with design grid



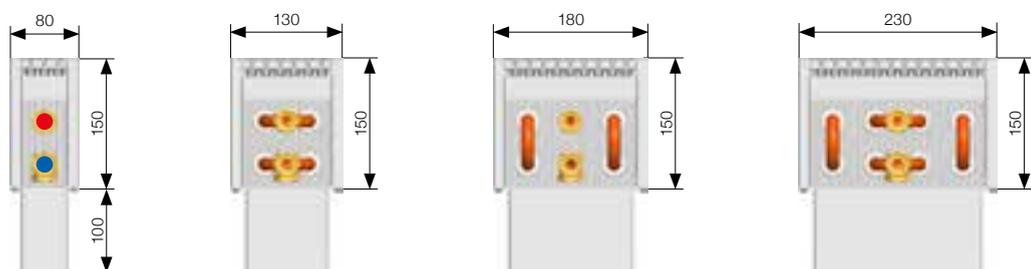
height 90

width

130

180

230



height 150

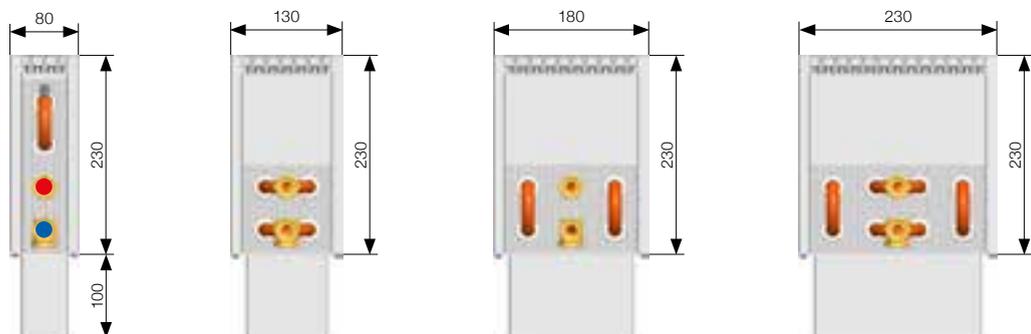
width

80

130

180

230



height 230

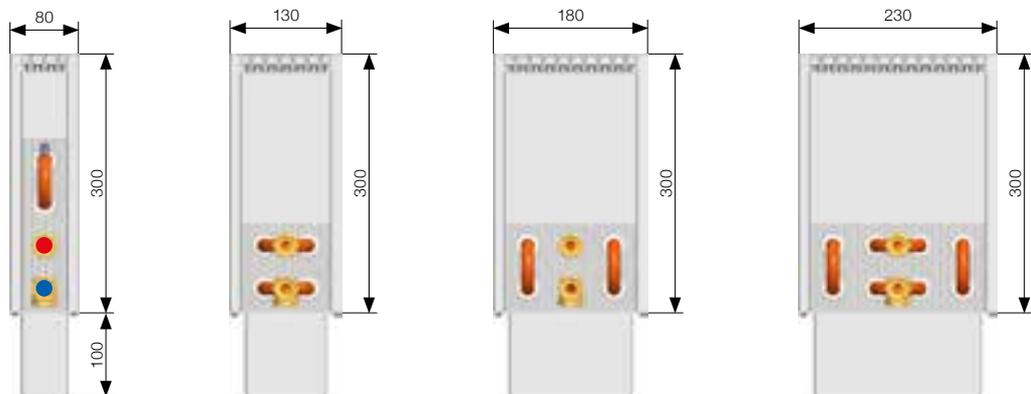
width

80

130

180

230



height 300

width

80

130

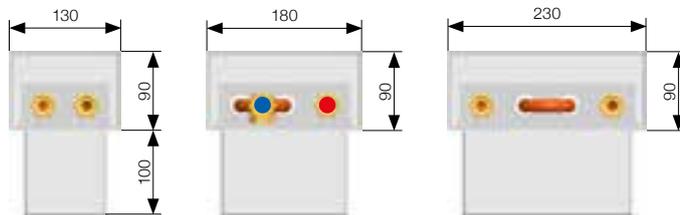
180

230

The height of stands for a finished floor for all KORALINE LKX models is 100 mm. Dimensions are given in mm.

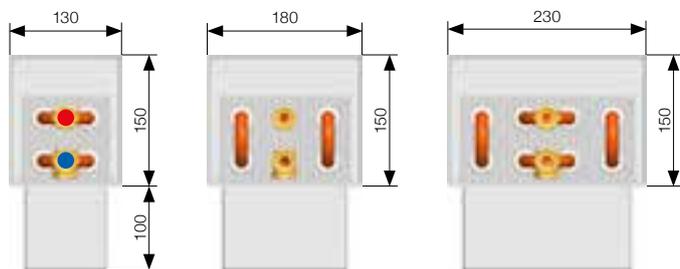
KORALINE Economic LKE

Free standing convectors with embossed grid



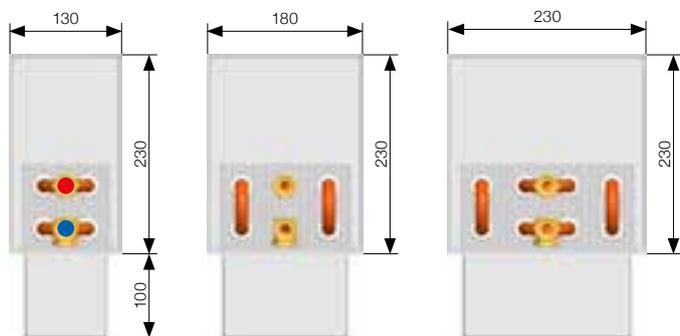
height 90

width 130 180 230



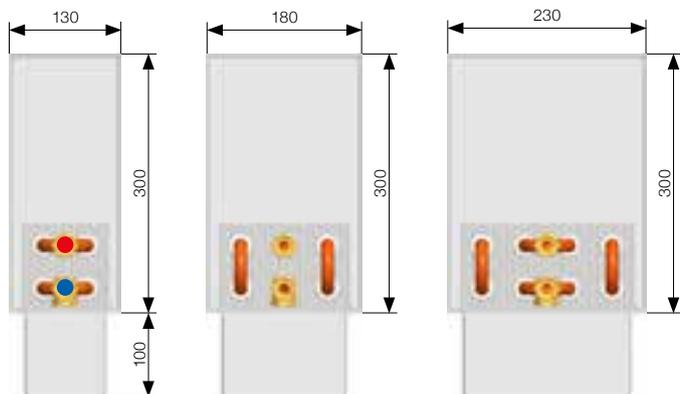
height 150

width 130 180 230



height 230

width 130 180 230

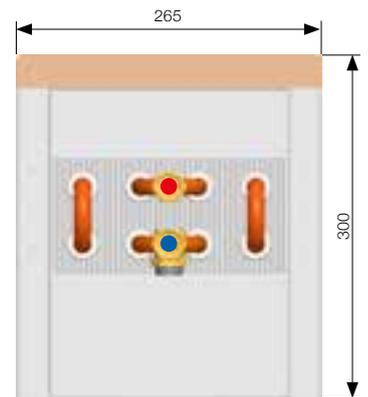


height 300

width 130 180 230

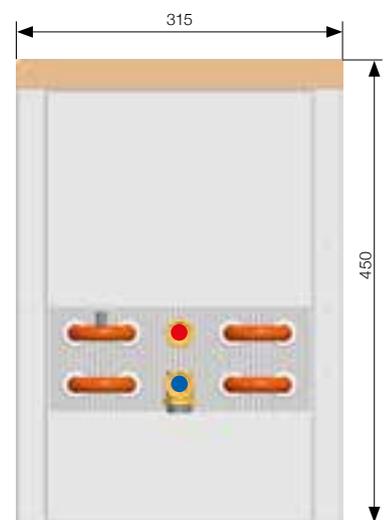
The height of stands for finished floor for all models KORALINE LKE is 100 mm. Dimensions are given in mm.

KORALINE LD with wooden board



height 300

width 265



height 450

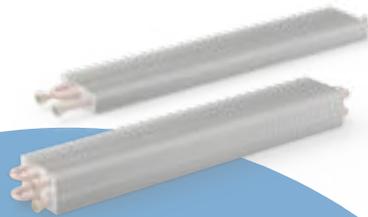
width 315



FREESTANDING AND
BENCH CONVECTORS
KORALINE



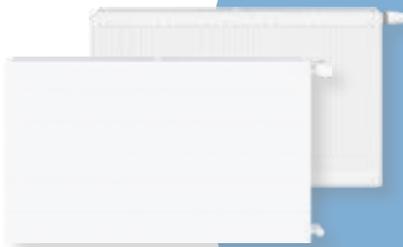
HEAT
EXCHANGERS
KORABASE



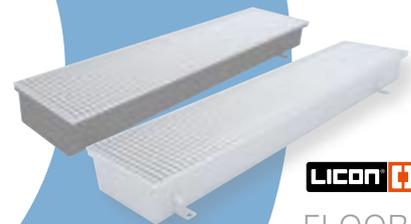
WALL-MOUNTED
CONVECTORS
KORAWALL



STEEL PANEL
RADIATORS
RADIK



FLOOR
CONVECTORS
KORAFLEX



DESIGN RADIATORS
KORATHERM



TOWEL RAIL RADIATORS
KORALUX



VENTILATION
UNITS
**KORASMART
KORAVENT**

PRODUCT PORTFOLIO

The very wide portfolio of products enables complex design schemes suitable for an entire building or an individual room, which brings maximum compatibility, design comfort and service, individual solutions and also financial savings.

Do you like large glazed areas? Use discrete and graceful shapes of the freestanding convectors. Their design highlights the windows and enables the interior to maintain its great view.

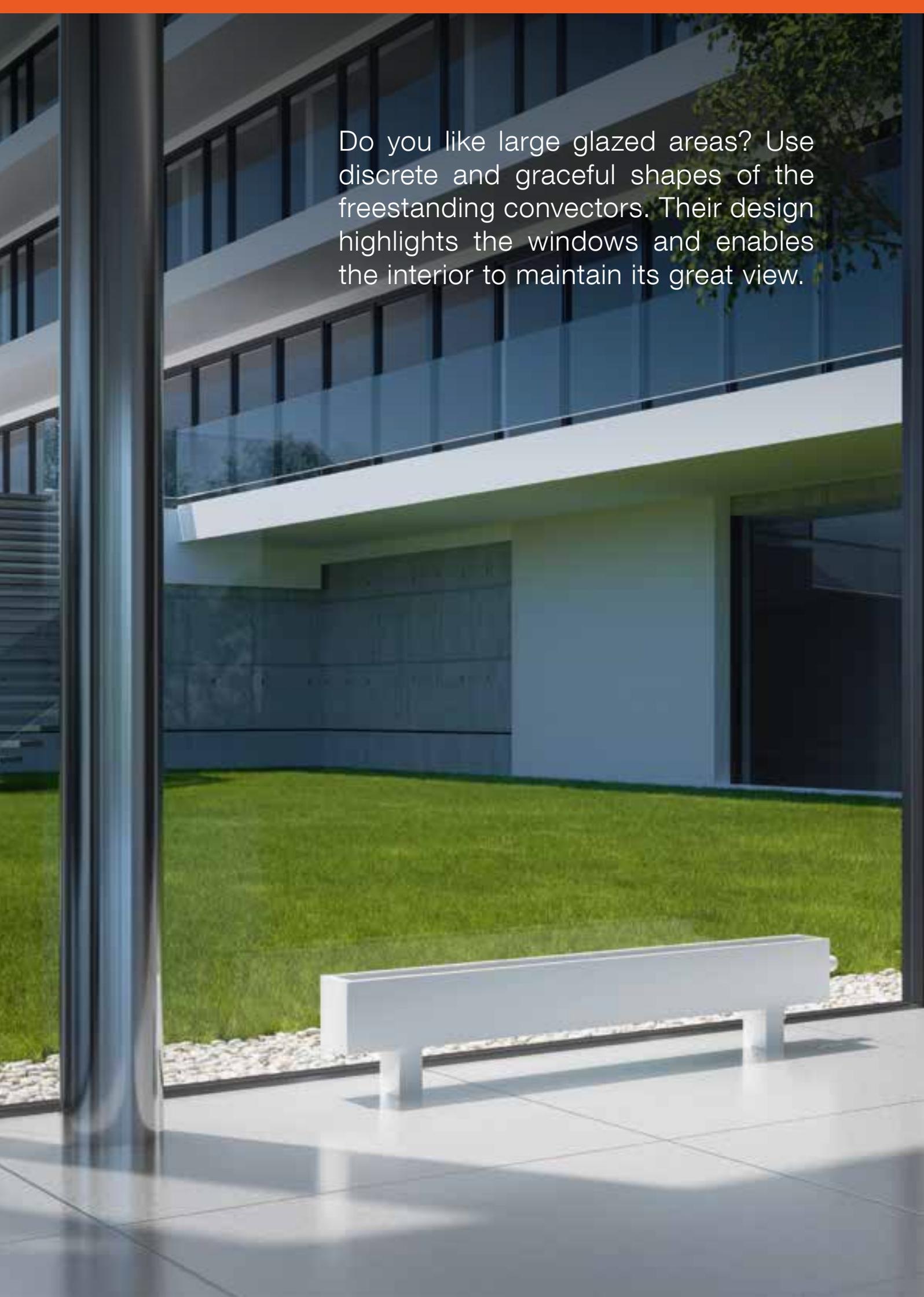


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Legend of graphic symbols

Functions and features of convectors

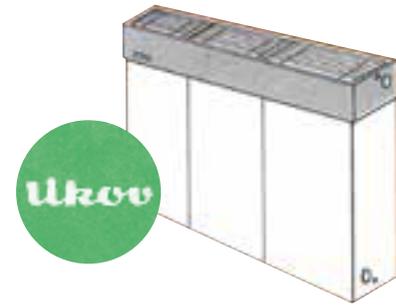


Design of convectors



Quality with more than 50 years of experience

In 1968, **the production of steel convectors** under the LIKOV brand started in Liberec. Convectors were sold under the name UNIKONTHERM and they immediately secured their market position.



1968



1995

The year 1995 was marked by **modernisation of the product portfolio**, which also included **initiation of the production of floor convectors** that significantly enriched the range of design solutions for any customer.

2004 then witnessed the complete transformation of the company. The most apparent was the change of name from the original LIKOV **to LICON HEAT s.r.o.** Also a complete product innovation took place; **a new exchanger was released**, and a new business strategy for **export was initiated**.

2004



2013

The essential year in the company's development was 2013, when **LICON HEAT became part of the KORADO group** and thus expanded its range of products. Thanks to this acquisition, LICON convectors have reached many other customers from all over the world.

The launch of the **new generation of modern convectors** and significant expansion of the product portfolio.

2018



What next? We will continue improving products using state-of-the-art technologies along with our experience and know-how gained over 50 years of convectors production.

Why choose our convectors?



Ideal for any interior...

The range includes floor, wall-mounted, free-standing convectors and also special units that can be installed in an unobtrusive manner even in premises furnished with period furniture.



Broad product line...

You are able to select a design for any interior, for dry and wet environment, swimming-pool area, convectors that heat and cool or a whole range of design solutions.



Heating efficiency...

Convector begin to heat quickly, are highly efficient with low power consumption. Their operation is economical and ecological.



High technical level...

They are suitable for heating systems with all types of heat sources (heat pumps, gas, electricity, solar heat, wood and biomass).

Simple assembly, disassembly and maintenance.

Did you know that...

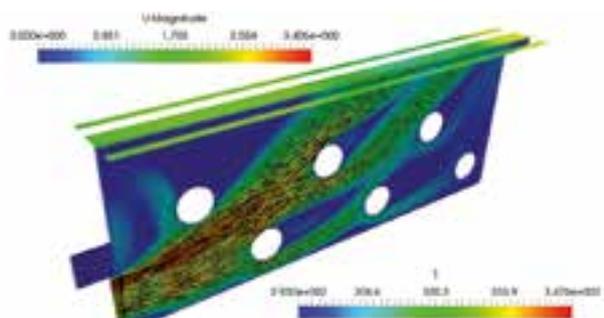
- KORADO group has its own research and development centre, including test chambers for measuring heat outputs under European standard EN 442, and for measuring heat and cooling output under European standard EN 16430.

- The production runs on state-of-the-art machines controlled according to the principle of the so-called lean production. Products are processed in the shortest possible time while maintaining maximum quality of both their design and materials.



- We use the latest methods of research and development and collaborate with top experts in this field in the academic sphere (Technical University in Liberec, Czech Technical University in Prague, etc.).

- We are a holder of the quality management system certificate under ISO 9001. Products are manufactured and tested under ČSN EN 442 and ČSN EN 16430. By using the CE mark, the producer confirms that LICON convectors conform to the characteristics stated in the Declaration of Performance issued in accordance with the Regulation of the EP and Council (EC) No. 305/2011. This conformity has been confirmed by the notification body No. 1015, Strojirenský zkušební ústav s.p. Brno.





Natural convection is a method of heat release into the space thanks to an exchanger made from a copper tube and aluminium gills. The hot water flow heats up the tube, and subsequently the warm air between the gills starts rising thanks to the chimney effect.

KORALINE Exclusive LKX



BENCH CONVECTORS

KORALINE Exclusive LKX

The design and higher output are benefits of new bench convectors KORALINE Exclusive. They are fitted with a high-quality anodised silver grid. Thanks to the broad portfolio and functionality, they are designed not only for heating in family houses and blocks of flats, but also in office buildings and non-residential premises.

KORALINE Exclusive LKX

Technical data

Height	90, 150, 230, 300 mm
Width	80, 130, 180, 230 mm
Length	600, 700, 800, 900, 1 000, 1 100, 1 200, 1 400, 1 600, 1 800, 2 000, 2 200, 2 400, 2 600, 2 800, 3 000 mm
Output	from 149 to 5 670 W
Max. operating pressure	1,2 MPa
Max. operating temperature	110 °C
Max. surface temperature	40 °C
Connecting thread	female G 1/2"
Connection method	bottom (recommended), side
Ordering code	see page 42

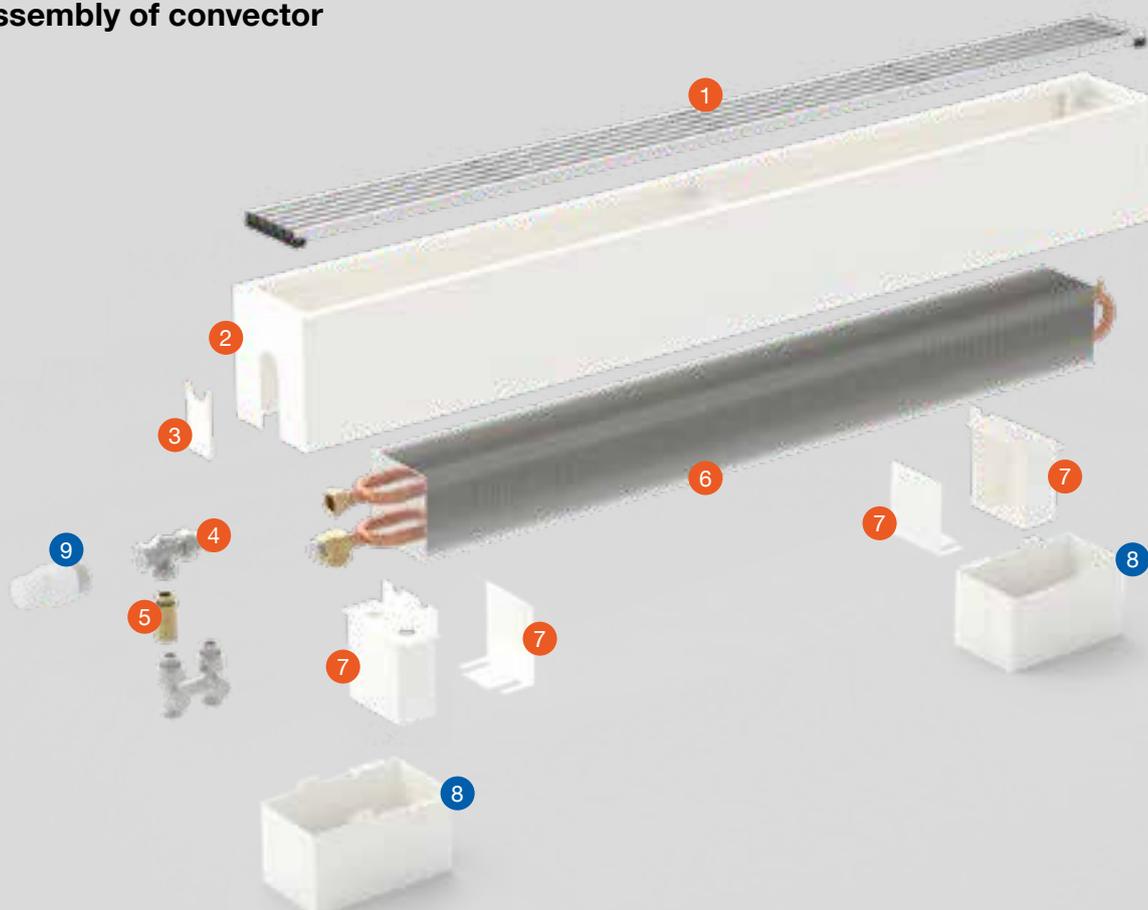
Standard supply content

- 1 aluminium grille, unpainted, aluminium silver
- 2 galvanised steel casing, painted in RAL 9016 white
- 3 side connection cover
- 4 axial thermostatic valve 425, thread M 30 × 1,5 (see page 34)
- 5 from the height 150 mm – extension piece 425 (see page 34)
- 6 Al/Cu heat exchanger for universal connection with low water content, air vent and vertically shaped slats for higher heat output
- 7 bracket for finished floor
- 8 strong packaging containing an assembly guide

Optional accessories

- 8 covers of stands for finished floor
- 9 thermostatic head, thermoelectric actuator (see page 34)
- other colour of the casing according RAL colour chart
- bracket for mounting on the wall
- bracket for subfloor

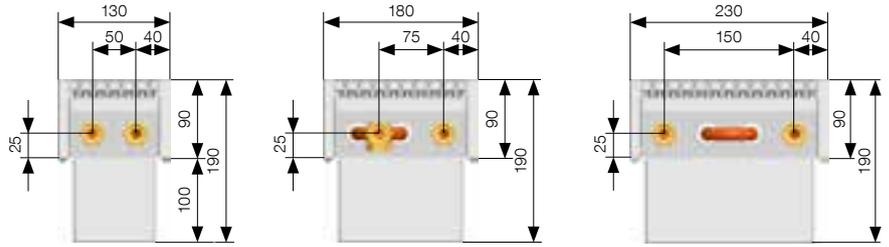
Assembly of convector



OVERVIEW OF TYPES

KORALINE Exclusive LKX

Bench convector with aluminium cover grille



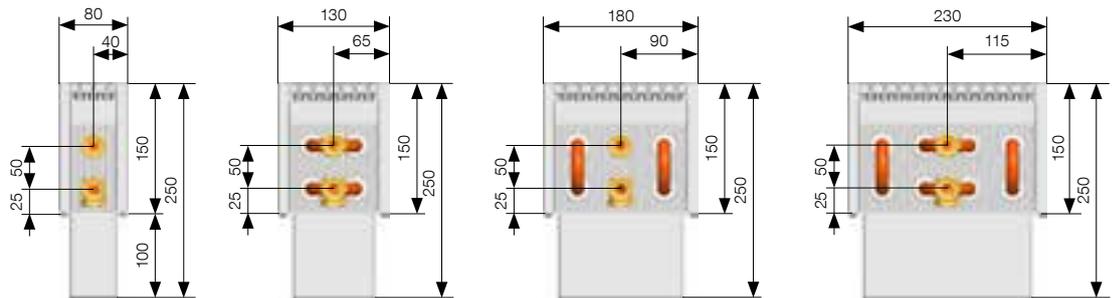
height 90

width

130

180

230



height 150

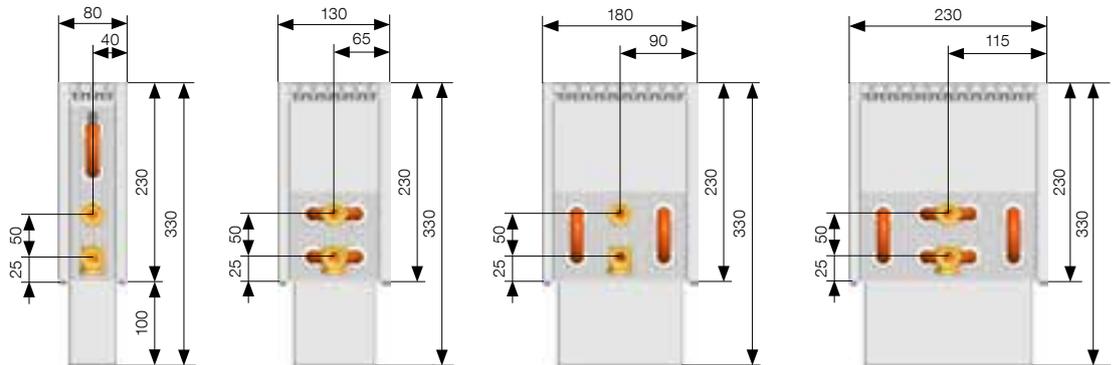
width

80

130

180

230



height 230

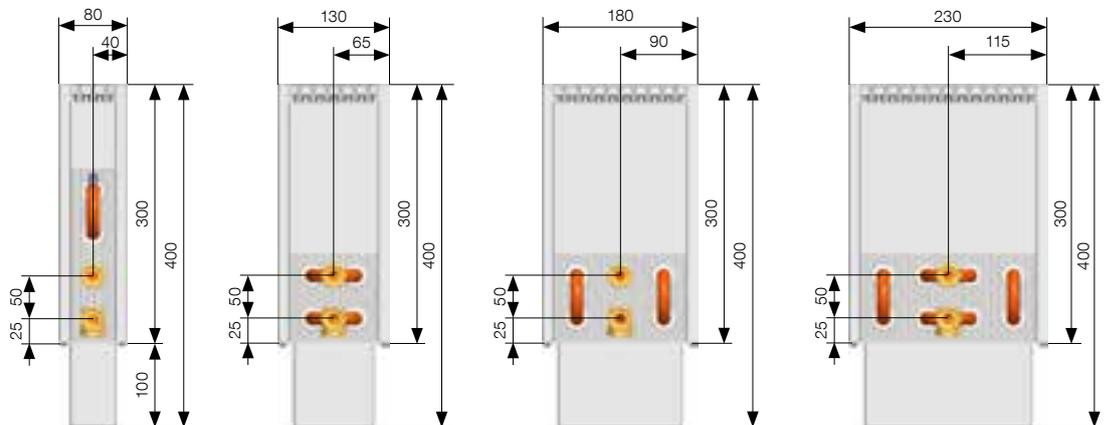
width

80

130

180

230



height 300

width

80

130

180

230

The height of brackets for a finished floor for all KORALINE LKX models is 100 mm. Dimensions are given in mm.

HEAT OUTPUTS

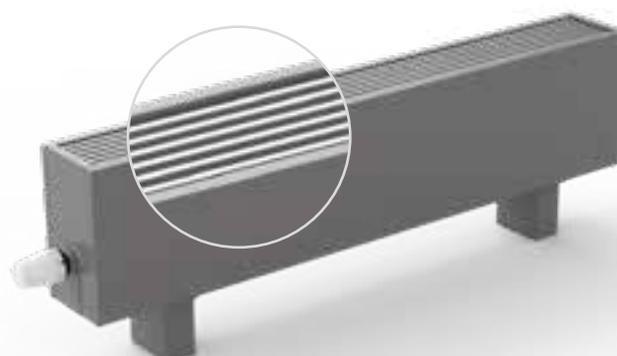
Heat outputs [W] at $t_1/t_2/t_1$ = at 75/65/20 °C ($\Delta t=50$), 65/55/20 °C ($\Delta t=40$) and 55/45/20 °C ($\Delta t=30$)/EN 442

KORALINE Exclusive LKX																
Length	$t_1/t_2/t_1$ [°C]	Height 90			Height 150				Height 230				Height 300			
		Width 130	Width 180	Width 230	Width 80	Width 130	Width 180	Width 230	Width 80	Width 130	Width 180	Width 230	Width 80	Width 130	Width 180	Width 230
600	75/65/20	203	322	454	149	264	471	579	208	295	555	683	223	317	610	750
	65/55/20	148	236	334	108	194	343	420	151	216	405	497	162	232	446	547
	55/45/20	99	158	225	71	130	228	279	100	145	270	330	108	155	298	364
700	75/65/20	252	397	563	185	336	584	737	258	375	689	869	277	404	757	955
	65/55/20	184	291	415	134	247	426	535	188	275	503	633	201	296	553	697
	55/45/20	123	195	279	88	165	283	355	125	184	335	420	133	198	369	464
800	75/65/20	301	473	673	221	409	698	895	308	456	823	1056	331	491	904	1160
	65/55/20	220	347	495	160	300	508	650	224	334	601	769	241	359	661	846
	55/45/20	147	233	333	105	201	338	431	149	223	400	511	159	240	441	563
900	75/65/20	350	548	783	257	481	812	1053	358	536	957	1242	385	578	1051	1365
	65/55/20	256	402	576	186	353	591	765	261	393	699	905	280	423	769	996
	55/45/20	171	270	388	122	236	393	507	173	263	465	601	185	282	513	663
1 000	75/65/20	399	624	892	293	553	925	1211	408	617	1091	1429	439	664	1198	1570
	65/55/20	292	458	657	212	405	674	880	297	452	796	1040	319	486	876	1145
	55/45/20	195	307	442	140	272	448	583	197	302	531	691	211	325	585	763
1 100	75/65/20	448	699	1002	329	625	1039	1369	459	698	1225	1615	493	751	1346	1775
	65/55/20	327	513	737	238	458	757	995	334	511	894	1176	358	549	984	1295
	55/45/20	219	344	496	157	307	503	659	221	342	596	781	237	367	657	862
1 200	75/65/20	497	775	1112	365	697	1153	1527	509	778	1359	1802	547	838	1493	1980
	65/55/20	363	568	818	264	511	839	1110	370	570	992	1312	397	613	1091	1444
	55/45/20	243	381	551	174	343	558	735	246	381	661	872	263	410	729	962
1 400	75/65/20	595	926	1331	437	842	1380	1843	609	939	1627	2175	654	1011	1787	2390
	65/55/20	435	679	979	316	617	1005	1339	443	688	1188	1584	476	740	1307	1743
	55/45/20	291	456	659	208	414	668	888	294	460	791	1052	315	494	873	1161
1 600	75/65/20	693	1077	1550	509	986	1607	2159	709	1100	1895	2548	762	1185	2082	2800
	65/55/20	507	790	1140	368	723	1171	1569	516	806	1383	1855	554	867	1522	2042
	55/45/20	338	530	768	243	485	778	1040	343	539	922	1233	367	579	1016	1360
1 800	75/65/20	791	1228	1769	581	1130	1834	2475	810	1261	2164	2921	870	1358	2376	3210
	65/55/20	578	901	1302	420	829	1336	1799	589	924	1579	2127	632	993	1737	2341
	55/45/20	386	604	876	277	556	888	1192	391	618	1052	1413	419	664	1160	1559
2 000	75/65/20	889	1379	1988	653	1275	2062	2791	910	1422	2432	3294	978	1532	2671	3620
	65/55/20	650	1011	1463	472	935	1502	2029	662	1042	1775	2399	711	1120	1953	2640
	55/45/20	434	678	985	311	627	998	1344	439	697	1182	1594	471	749	1304	1758
2 200	75/65/20	987	1530	2208	725	1419	2289	3108	1010	1584	2700	3667	1086	1705	2965	4030
	65/55/20	721	1122	1624	524	1041	1667	2258	735	1160	1970	2670	789	1247	2168	2939
	55/45/20	482	753	1094	346	698	1108	1497	488	776	1313	1774	523	834	1448	1957
2 400	75/65/20	1084	1681	2427	797	1564	2516	3424	1111	1745	2968	4040	1194	1878	3260	4440
	65/55/20	793	1233	1786	576	1147	1833	2488	808	1278	2166	2942	868	1374	2383	3238
	55/45/20	530	827	1202	380	769	1218	1649	536	855	1443	1954	575	918	1591	2156
2 600	75/65/20	1182	1832	2646	869	1708	2744	3740	1211	1906	3236	4413	1301	2052	3554	4850
	65/55/20	865	1344	1947	629	1252	1998	2718	881	1396	2362	3214	946	1501	2598	3537
	55/45/20	578	901	1311	414	840	1328	1801	585	934	1573	2135	627	1003	1735	2355
2 800	75/65/20	1280	1983	2865	941	1852	2971	4056	1311	2067	3504	4786	1409	2225	3849	5260
	65/55/20	936	1455	2108	681	1358	2164	2948	954	1514	2557	3485	1024	1628	2814	3836
	55/45/20	626	976	1419	448	911	1438	1953	633	1013	1704	2315	679	1088	1879	2554
3 000	75/65/20	1378	2134	3085	1013	1997	3198	4372	1412	2228	3772	5159	1517	2399	4143	5670
	65/55/20	1008	1565	2270	733	1464	2330	3177	1027	1632	2753	3757	1103	1755	3029	4135
	55/45/20	673	1050	1528	483	982	1548	2106	682	1092	1834	2496	731	1173	2023	2753
Temperature exponent n [-]		1,4021	1,3880	1,3752	1,4503	1,3900	1,4204	1,4302	1,4250	1,3958	1,4115	1,4215	1,4298	1,4009	1,4038	1,4139

Dimensions are given in mm.



An example of conversion to other temperature gradient see page 41 or on www.licon.cz





Bench convectors have excellent technical parameters, utility options, wide portfolio of dimensions, connection possibilities and mounting options.

KORALINE Economic LKE



BENCH CONVECTORS

KORALINE Economic LKE

KORALINE Economic is the most economical version of the bench convector. This type of product has an embossed grille in the steel casing that forms its integral part. Wide range of dimensions and higher heat outputs satisfy even demanding customers.

KORALINE Economic LKE

Technical data

Height	90, 150, 230, 300 mm
Width	130, 180, 230 mm
Length	600, 700, 800, 900, 1 000, 1 100, 1 200, 1 400, 1 600, 1 800, 2 000, 2 200, 2 400, 2 600, 2 800, 3 000 mm
Output	from 2 013 to 5 670 W
Max. operating pressure	1,2 MPa
Max. operating temperature	110 °C
Max. surface temperature	40 °C
Connecting thread	female G 1/2"
Connection method	bottom (recommended), side
Ordering code	see page 42

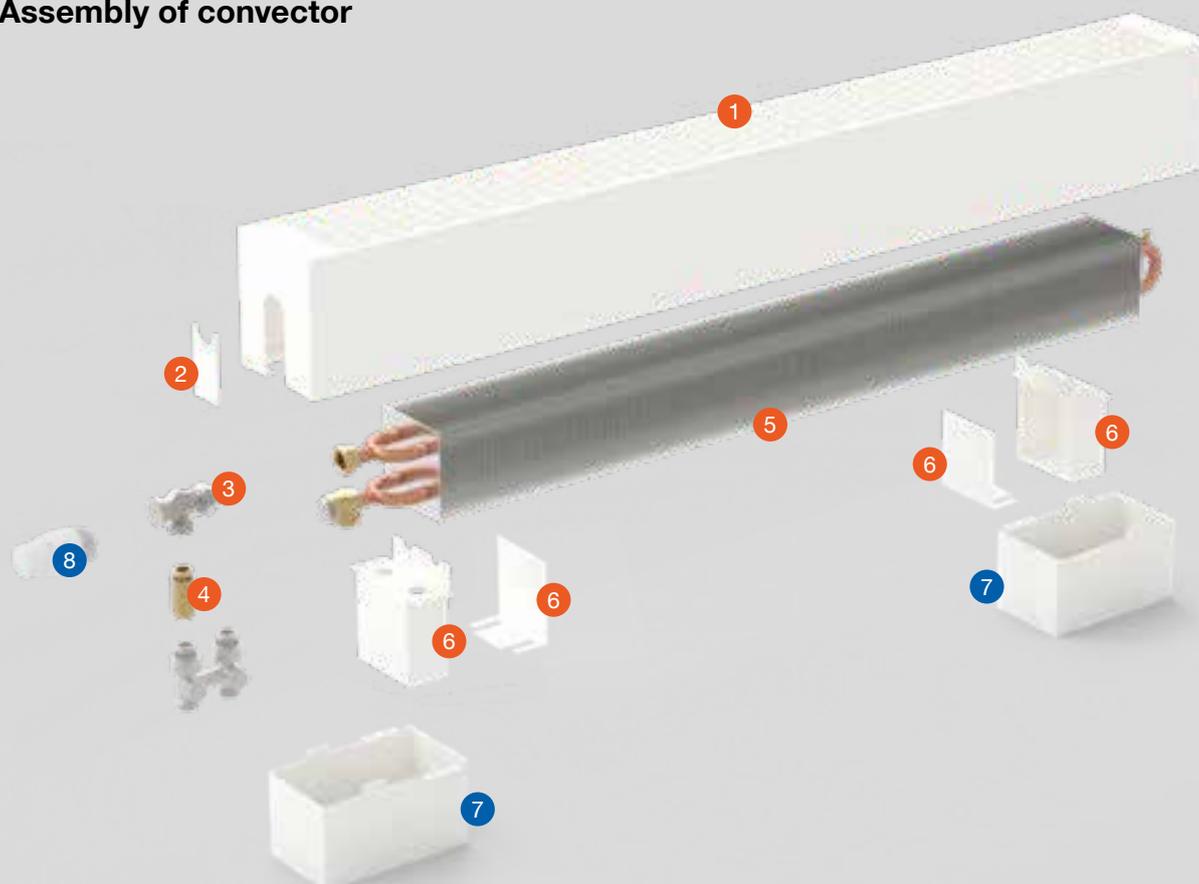
Standard supply content

- ① galvanised steel casing with embossed grille, painted in RAL 9016 white
- ② side connection cover
- ③ axial thermostatic valve 425, thread M 30 × 1,5 (see page 34)
- ④ from the height 150 mm – extension piece 425 (see page 34)
- ⑤ Al/Cu heat exchanger for universal connection with low water content, air vent and unique vertically shaped slats for higher heat output
- ⑥ bracket for finished floor
- strong packaging containing assembly guide

Optional accessories

- ⑦ covers of stands for finished floor
- ⑧ thermostatic head, thermoelectric actuator (see page 34)
- other colour of the casing according RAL colour chart
- bracket for mounting on the wall
- bracket for subfloor

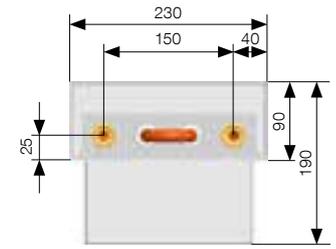
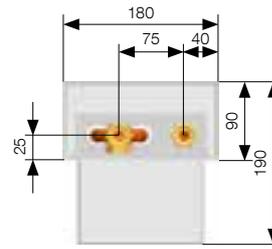
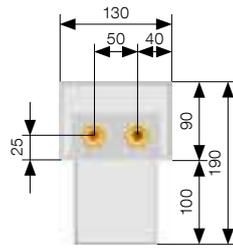
Assembly of convector



OVERVIEW OF TYPES

KORALINE Economic LKE

Bench convector
with embossed grille



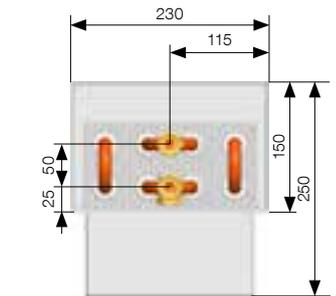
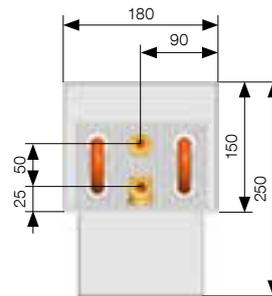
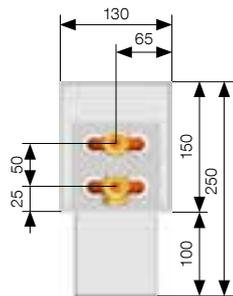
height 90

width

130

180

230



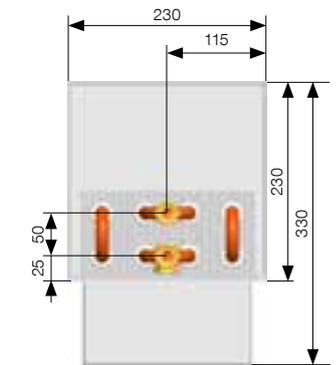
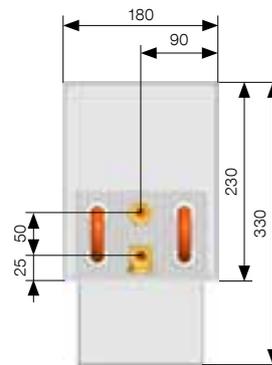
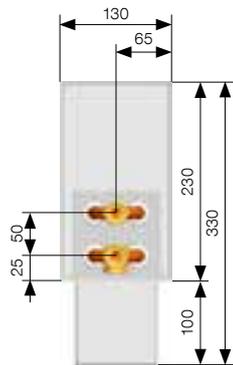
height 150

width

130

180

230



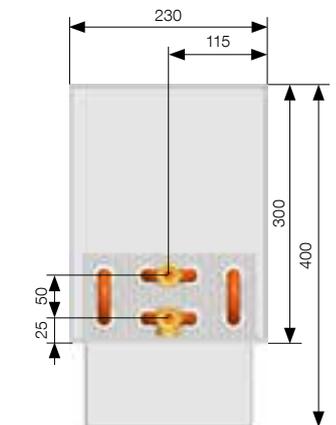
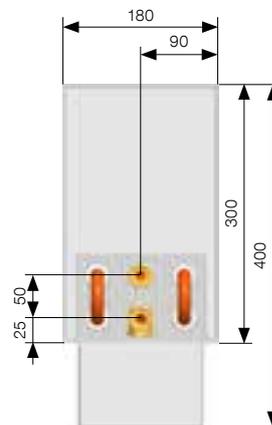
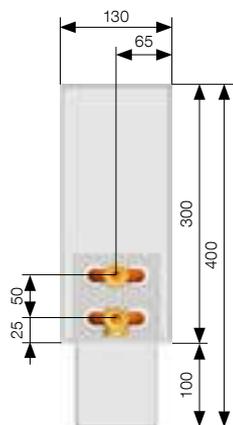
height 230

width

130

180

230



height 300

width

130

180

230

The height of brackets for finished floor for all models KORALINE LKE is 100 mm. Dimensions are given in mm.

HEAT OUTPUTS

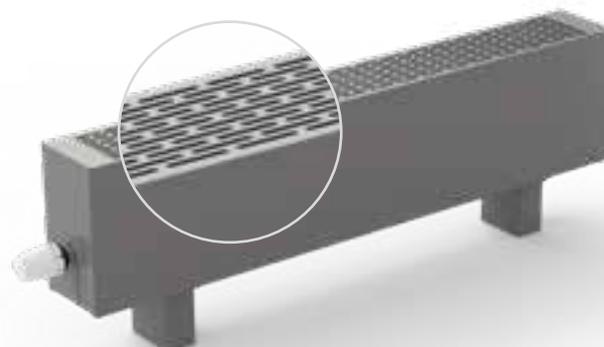
Heat outputs [W] at $t_1/t_2/t_3$ = at 75/65/20 °C ($\Delta t=50$), 65/55/20 °C ($\Delta t=40$) and 55/45/20 °C ($\Delta t=30$)/EN 442

KORALINE Economic LKE													
Length	$t_1/t_2/t_3$ [°C]	Height 90			Height 150			Height 230			Height 300		
		Width 130	Width 180	Width 230	Width 130	Width 180	Width 230	Width 130	Width 180	Width 230	Width 130	Width 180	Width 230
600	75/65/20	203	322	454	264	471	579	295	555	683	317	610	750
	65/55/20	148	236	334	194	343	420	216	405	497	232	446	547
	55/45/20	99	158	225	130	228	279	145	270	330	155	298	364
700	75/65/20	252	397	563	336	584	737	375	689	869	404	757	955
	65/55/20	184	291	415	247	426	535	275	503	633	296	553	697
	55/45/20	123	195	279	165	283	355	184	335	420	198	369	464
800	75/65/20	301	473	673	409	698	895	456	823	1056	491	904	1160
	65/55/20	220	347	495	300	508	650	334	601	769	359	661	846
	55/45/20	147	233	333	201	338	431	223	400	511	240	441	563
900	75/65/20	350	548	783	481	812	1053	536	957	1242	578	1051	1365
	65/55/20	256	402	576	353	591	765	393	699	905	423	769	996
	55/45/20	171	270	388	236	393	507	263	465	601	282	513	663
1 000	75/65/20	399	624	892	553	925	1211	617	1091	1429	664	1198	1570
	65/55/20	292	458	657	405	674	880	452	796	1040	486	876	1145
	55/45/20	195	307	442	272	448	583	302	531	691	325	585	763
1 100	75/65/20	448	699	1002	625	1039	1369	698	1225	1615	751	1346	1775
	65/55/20	327	513	737	458	757	995	511	894	1176	549	984	1295
	55/45/20	219	344	496	307	503	659	342	596	781	367	657	862
1 200	75/65/20	497	775	1112	697	1153	1527	778	1359	1802	838	1493	1980
	65/55/20	363	568	818	511	839	1110	570	992	1312	613	1091	1444
	55/45/20	243	381	551	343	558	735	381	661	872	410	729	962
1 400	75/65/20	595	926	1331	842	1380	1843	939	1627	2175	1011	1787	2390
	65/55/20	435	679	979	617	1005	1339	688	1188	1584	740	1307	1743
	55/45/20	291	456	659	414	668	888	460	791	1052	494	873	1161
1 600	75/65/20	693	1077	1550	986	1607	2159	1100	1895	2548	1185	2082	2800
	65/55/20	507	790	1140	723	1171	1569	806	1383	1855	867	1522	2042
	55/45/20	338	530	768	485	778	1040	539	922	1233	579	1016	1360
1 800	75/65/20	791	1228	1769	1130	1834	2475	1261	2164	2921	1358	2376	3210
	65/55/20	578	901	1302	829	1336	1799	924	1579	2127	993	1737	2341
	55/45/20	386	604	876	556	888	1192	618	1052	1413	664	1160	1559
2 000	75/65/20	889	1379	1988	1275	2062	2791	1422	2432	3294	1532	2671	3620
	65/55/20	650	1011	1463	935	1502	2029	1042	1775	2399	1120	1953	2640
	55/45/20	434	678	985	627	998	1344	697	1182	1594	749	1304	1758
2 200	75/65/20	987	1530	2208	1419	2289	3108	1584	2700	3667	1705	2965	4030
	65/55/20	721	1122	1624	1041	1667	2258	1160	1970	2670	1247	2168	2939
	55/45/20	482	753	1094	698	1108	1497	776	1313	1774	834	1448	1957
2 400	75/65/20	1084	1681	2427	1564	2516	3424	1745	2968	4040	1878	3260	4440
	65/55/20	793	1233	1786	1147	1833	2488	1278	2166	2942	1374	2383	3238
	55/45/20	530	827	1202	769	1218	1649	855	1443	1954	918	1591	2156
2 600	75/65/20	1182	1832	2646	1708	2744	3740	1906	3236	4413	2052	3554	4850
	65/55/20	865	1344	1947	1252	1998	2718	1396	2362	3214	1501	2598	3537
	55/45/20	578	901	1311	840	1328	1801	934	1573	2135	1003	1735	2355
2 800	75/65/20	1280	1983	2865	1852	2971	4056	2067	3504	4786	2225	3849	5260
	65/55/20	936	1455	2108	1358	2164	2948	1514	2557	3485	1628	2814	3836
	55/45/20	626	976	1419	911	1438	1953	1013	1704	2315	1088	1879	2554
3 000	75/65/20	1378	2134	3085	1997	3198	4372	2228	3772	5159	2399	4143	5670
	65/55/20	1008	1565	2270	1464	2330	3177	1632	2753	3757	1755	3029	4135
	55/45/20	673	1050	1528	982	1548	2106	1092	1834	2496	1173	2023	2753
Temperature exponent n [-]		1,4021	1,3880	1,3752	1,3900	1,4204	1,4302	1,3958	1,4115	1,4215	1,4009	1,4038	1,4139

Dimensions are given in mm.



An example of conversion to other temperature gradient see page 41 or on www.licon.cz





Bench convectors have several fastening methods. In addition to conventional floor brackets, wall brackets can be used, making the interior space more open.

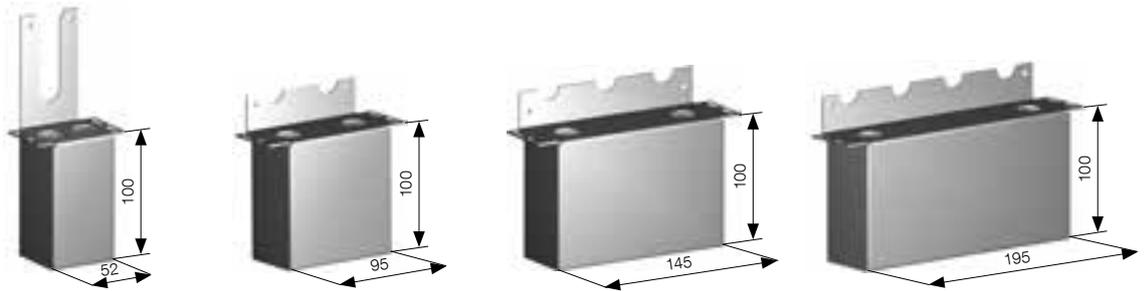
Fastening and assembly

LIST OF BRACKETS

Bench convectors KORALINE in Exclusive LKX and Economic LKE versions are supplied as standard with stands for a finished floor. Other fastening methods include brackets for a subfloor or brackets for mounting bench convector on a wall.

Stands for finished floor

- included in the delivery



height 100

width

80

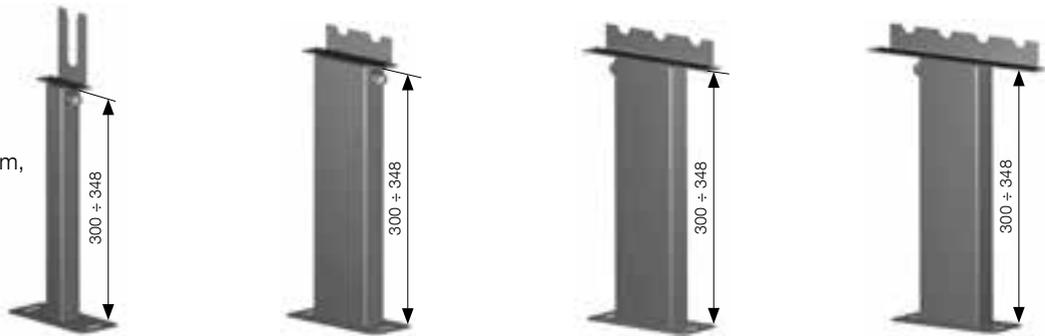
130

180

230

Stands for a subfloor

- optional accessories
- from the length of 2 000 mm, it is necessary to order of 3 pieces



height 300 ÷ 348

width

80

130

180

230

Wall bracket

- optional accessories
- the distance between the wall and unit is 10-30 mm
- from the length of 2 000 mm, it is necessary to order packages of 3 pieces



width

80

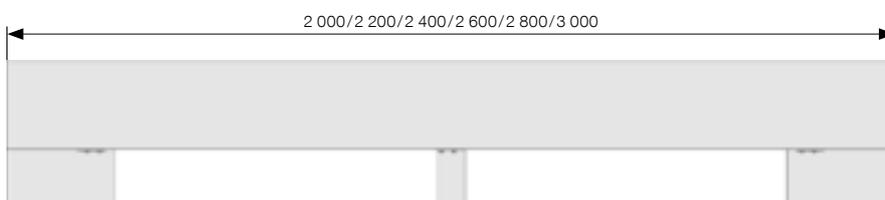
130

180

230

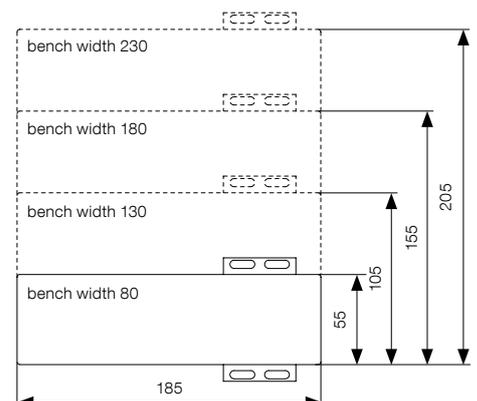
Stand cover

- optional accessories
- stand covers are supplied by 2 pieces and designed for covering end stands for a finished floor
- from the length of 2 000 mm, bench convectors KORALINE (Economic, Exclusive) are supplied with central stand



Dimensions are stated in mm.

Bracket cover dimensions



 upper view

The company reserves the right to make technical changes.

ASSEMBLY

Installation instructions

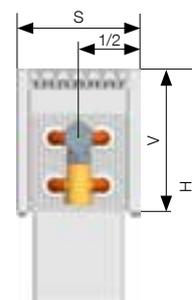
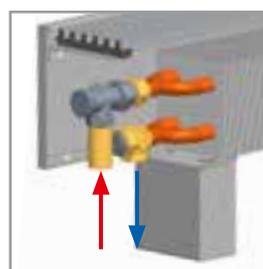
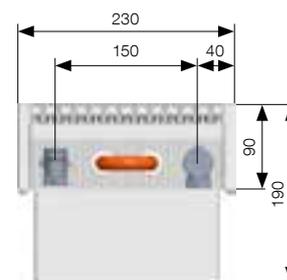
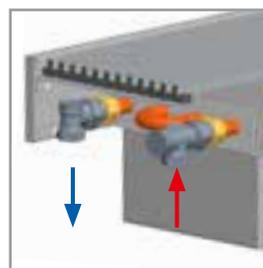
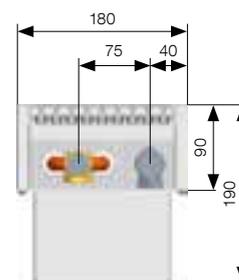
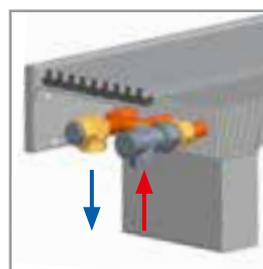
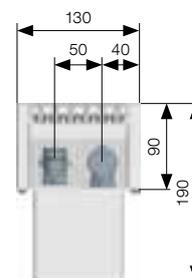
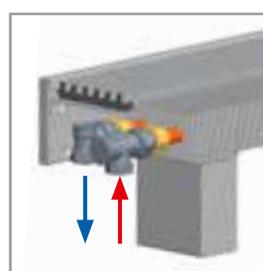
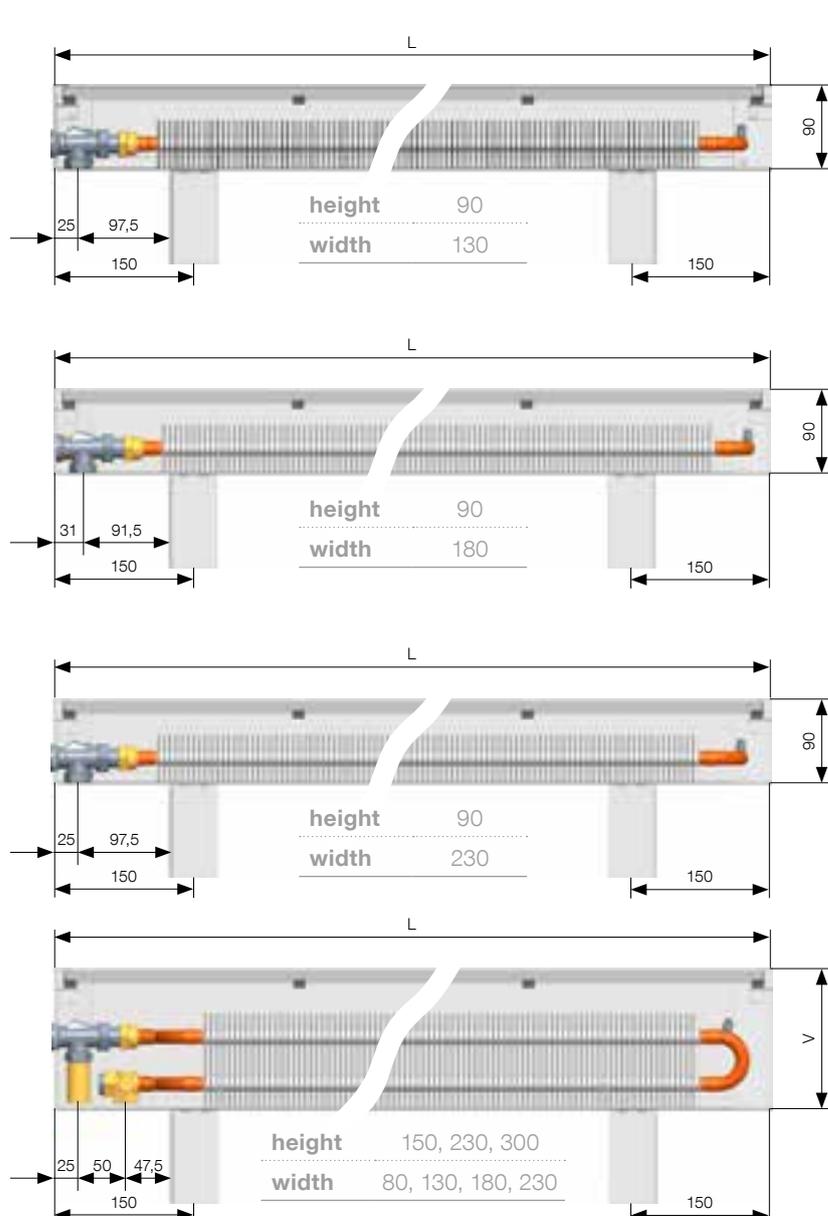
a) brackets – floor mounted. You may select from stands for a sub-floor or finished floor. The subfloor variant allows a height tolerance of approx. 50 mm. Dimensions for fastening to the floor is shown in the picture (page 35).

b) wall-mounted. We suggest mounting at least 100 mm above the finished floor. Supplied brackets (2–3 pcs) allow a height tolerance of 20 mm, length tolerance of 10 mm. Distance between the fixing points is shown in the picture (page 35).

Assembly procedure (applicable for all models)

The first step is to measure and fix brackets by drilling. Then you may install the heat exchanger on them and connect it to the heating system. The last step is to mount the case with cover grille and anchor it to brackets. Cover grille of KORALINE Exclusive is detachable for easier cleaning. For detail information see the assembly manual. Units are supplied assembled, except for stands and brackets, valve and a potential extension piece, which are attached to the product separately.

Bottom connection



For all widths (S) 80, 130, 180, 230

Height (V)	Height with bracket (H)
150	250
230	330
300	400

Height of the bracket for finished floor

The height of the bracket for all model ranges of KORALINE is 100 mm.

For heating and relaxation. Sit down comfortably, and you may rest and relax on a heated wooden board. The load is no problem for benches with a cover board.



KORALINE LD with board



BENCH CONVECTORS

KORALINE LD with board Economic LDE, Exclusive LDX

Bench convector with wooden board withstands static load without problems and is also suitable for sitting. Verified smart connection of the design, heat output and function is ideal not only for halls or conservatory, but also for office buildings and public centres.

KORALINE LD

Technical data

Height	300, 450 mm
Width	265, 315 mm
Length of bench	1 000, 1 200, 1 400, 1 600, 1 800, 2 000 mm
Output	from 721 to 3 525 W
Max. operating pressure	1,2 MPa
Max. operating temperature	110 °C
Max. surface temperature	40 °C
Connecting thread	female G 1/2"
Connection method	bottom (recommended), side
Cover panel design	wood – beech, oak, American walnut
Ordering code	see page 42



If the cover board is made of American walnut, the bench convector may be installed even in a wet environment – swimming pools, conservatory etc.

Standard supply content

- 1 wooden board as requested
- 2 galvanised steel or stainless-steel casing, class AISI 316 painted in RAL 9016 white
- 3 side connection cover
- 4 axial thermostatic valve 425, thread M 30 × 1,5 (see page 34)
- 5 extension piece 425 (see page 34)
- 6 Al/Cu heat exchanger with low water content, air vent, and vertically shaped slats for higher heat output
- 7 the assembly is in a resistant package containing assembly guide

Optional accessories

- cover wooden board – beech, oak or American walnut
- other colour of the casing according RAL colour chart

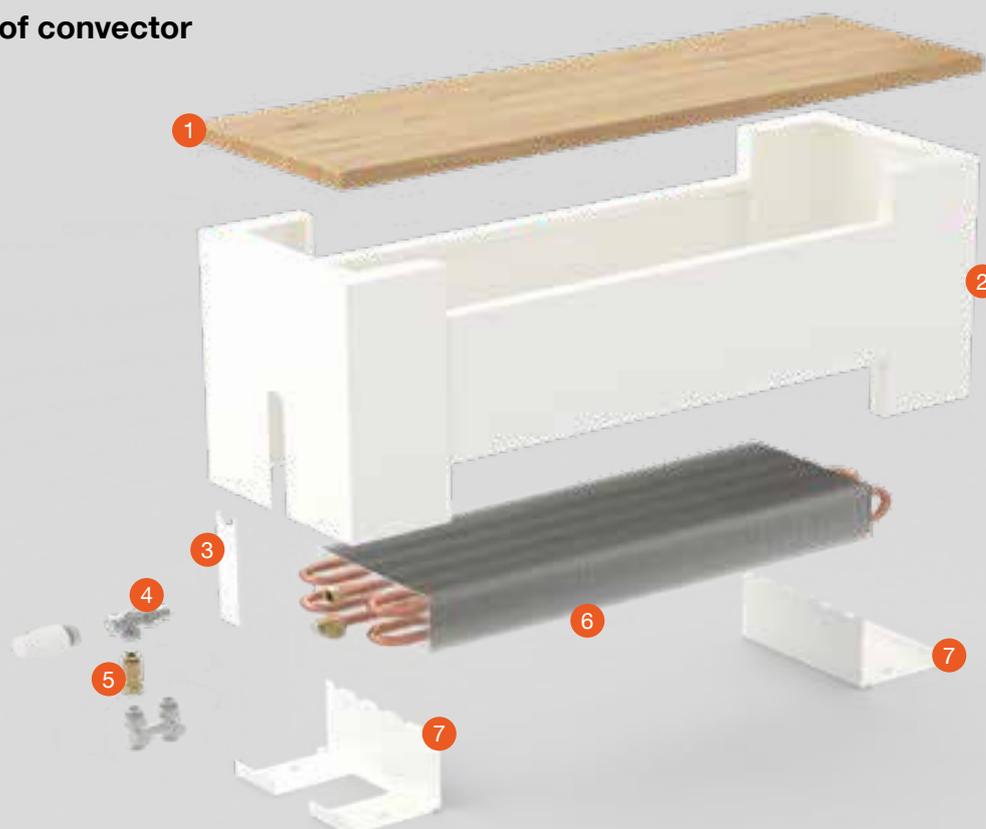
Model KORALINE Economic LDE

- 2 galvanised steel plate casing, painted in RAL 9016 white

Model KORALINE Exclusive LDX

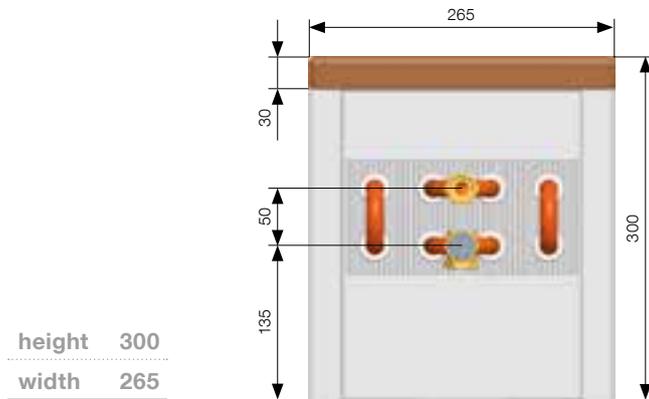
- 2 galvanised stainless-steel casing, AISI 316, painted in RAL 9016 white

Assembly of convector

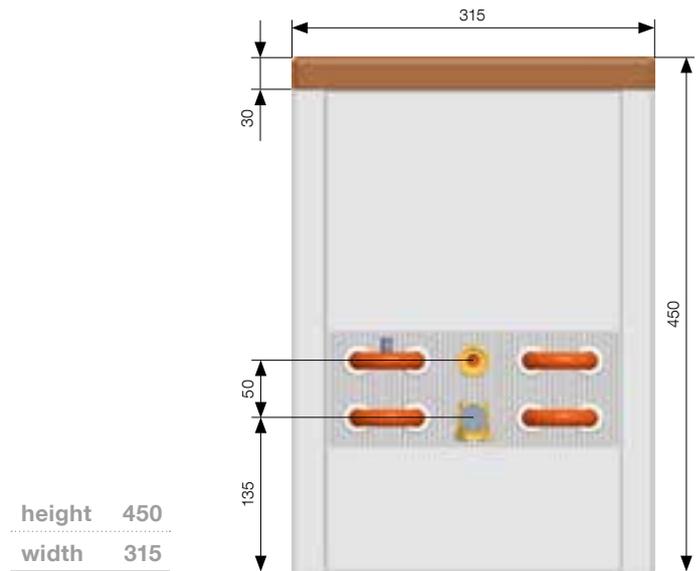


OVERVIEW OF TYPES

KORALINE with wooden board



Dimensions are given in mm.



HEAT OUTPUTS

Heat outputs [W] at $t_1/t_2/t_3$ = at 75/65/20 °C ($\Delta t=50$), 65/55/20 °C ($\Delta t=40$) and 55/45/20 °C ($\Delta t=30$)/EN 442

KORALINE LD			
Length	$t_1/t_2/t_3$ [°C]	Height 300	Height 450
		Width 265	Width 315
1000	75/65/20	721	1483
	65/55/20	524	1088
	55/45/20	348	730
1200	75/65/20	934	1891
	65/55/20	679	1388
	55/45/20	450	931
1400	75/65/20	1147	2300
	65/55/20	834	1688
	55/45/20	553	1133
1600	75/65/20	1360	2708
	65/55/20	989	1988
	55/45/20	656	1334

KORALINE LD			
Length	$t_1/t_2/t_3$ [°C]	Height 300	Height 450
		Width 265	Width 315
1800	75/65/20	1573	3117
	65/55/20	1144	2287
	55/45/20	758	1535
2000	75/65/20	1786	3525
	65/55/20	1299	2587
	55/45/20	861	1736
Temperature exponent n [-]		1,4290	1,3864



An example of conversion to other temperature gradient see page 41 or on www.licon.cz

COVER BOARD VARIANTS

Wooden boards are painted with non-toxic transparent lacquer.



beech



oak



American walnut

ASSEMBLY

Assembly procedure

Fix the brackets to the floor (see assembly manual for mounting dimensions). Install the heat exchanger on top of the brackets and connect it to the water system. Cover with the casing and fix to the brackets. For detail information see the assembly manual. For correct function and maximum output, heat units must be filled after assembly with heating medium and properly bled.

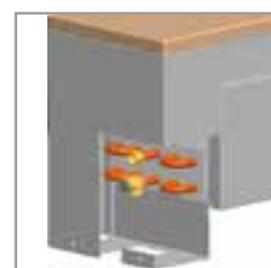
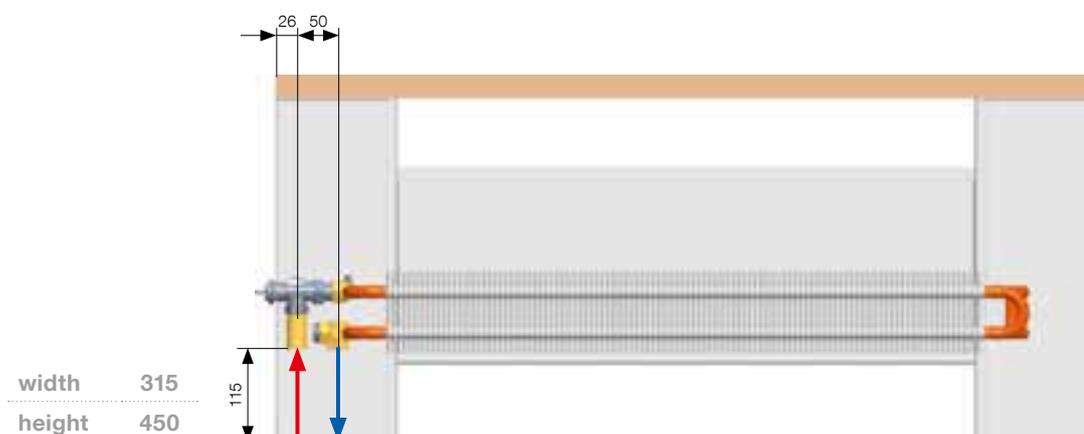
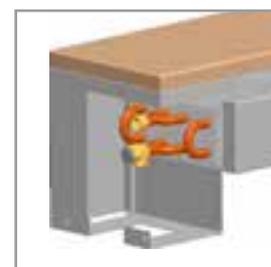
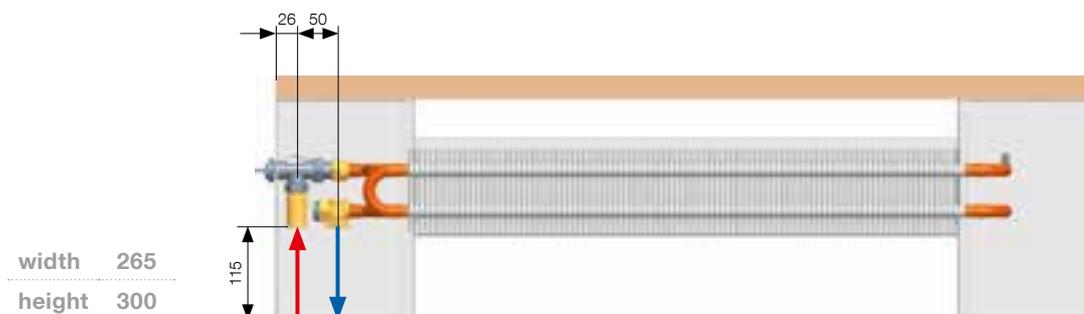
Attention!

Boards are made from natural materials. Therefore, minor variations in colour can occur. The supplier cannot fully guarantee the colours displayed and accept claims due to eventual colour variations. After installing, the board is fixed on sides to prevent undesirable movement.

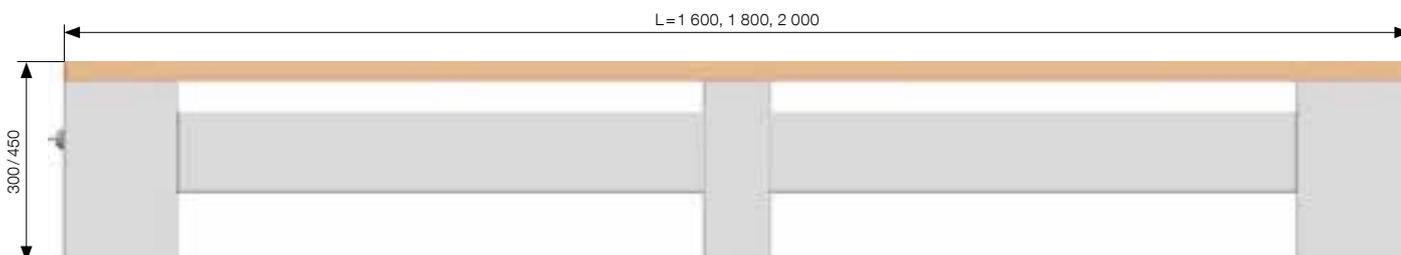
Bench convectors with a board for wet environment

Convectors designed for use at pool areas must be kept clean and washed with clean water on a regular basis. For a wet environment, we suggest the version Exclusive, with a cover panel made of American walnut.

Bottom connection



From the length of 1 600 mm, bench convectors KORALINE with board are supplied with a central support.



Dimensions are given in mm.



Bench convectors have their own allure. The warm and most practical design of your interior may even look like this.

Technical parameters

TECHNICAL PARAMETERS

Axial thermostatic valve 425

- standard supply content

- maximum operating pressure: PN 10
- maximum operating temperature 120 °C
- connection type: M 30 × 1,5
- connection – piping: 1/2"
- connection – body: 1/2" – gasket O-ring
- K_{vs} : 0,8



Extension piece 425

- standard supply content **from the height 150 mm**

- it is used to adjust the height between the input and output of the fittings at multiple-line exchangers
- brass version
- connection thread G 1/2" female
- gasket O-ring



Values for axial thermostatic valve 425

Preset	With a thermostatic head 2K (m ³ /h)	Without a thermostatic head K_{vs} (m ³ /h)
1	0,10	0,10
2	0,20	0,20
3	0,30	0,30
4	0,40	0,40
5	0,50	0,57
6	0,60	0,80

This valve type is part of the accessories for all convectors KORALINE.

Suggested thermoelectric actuator and thermostatic heads

To adjust and regulate the required air temperatures in a heated room, it is necessary to fit convector units with a thermostatic head or thermoelectric actuator. These accessories may be purchased at any authorised dealer.

Thermoelectric actuator

- optional accessories

TEP 230

- supply voltage: 230 VAC
- input power < 2 W
- **ordering code:**
TP-230-K2 (TEP 230 cable 2,5 m)
TP-230-K5 (TEP 230 cable 5 m)

TEP 24

- supply voltage: 24 VDC
- input power < 2 W
- **ordering code:**
TP-24-K2 (TEP 24 cable 2,5 m)
TP-24-K5 (TEP 24 cable 5 m)



- IP 44
- total height 65 mm
- cable length 2,5 and 5 m
- position resetting time: 4 min.
- standard assembly thread M 30 × 1,5
- closed without voltage

Thermostatic head Classic

- optional accessories

- temperature range 1–28 °C
- hysteresis 0,4 K
- white colour, RAL 9016
- M 30 × 1,5 thread
- **ordering code:** TH4-C



Thermostatic head Design

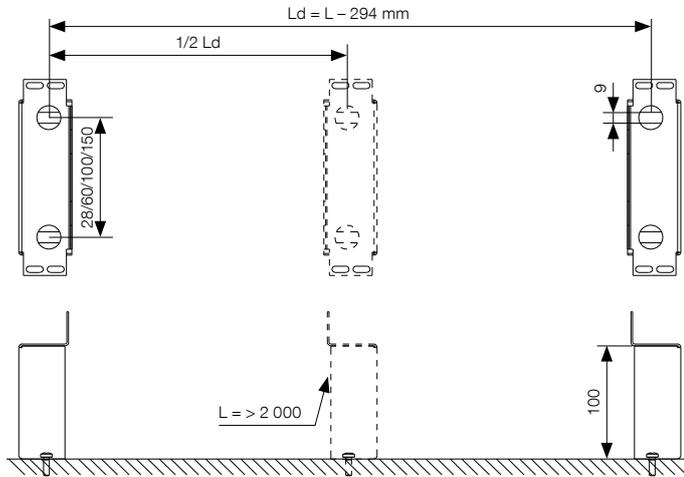
- optional accessories

- attractive appearance
- matte/matte version
- M 30 × 1,5 thread
- temperature range 7–27 °C
- hysteresis 0,25 K
- **ordering code:** TH2-D

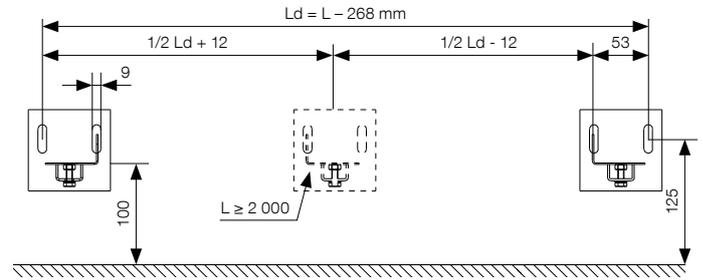


FASTENING

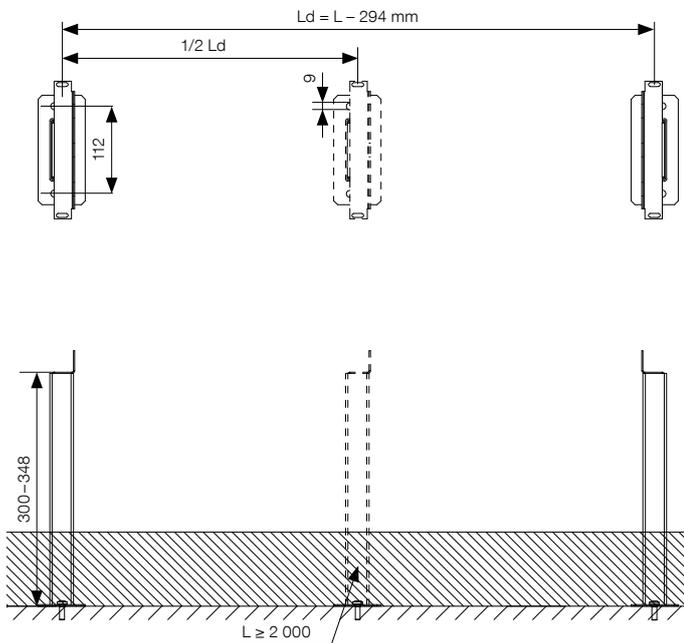
Fastening of KORALINE LKX and LKE floor brackets to a finished floor



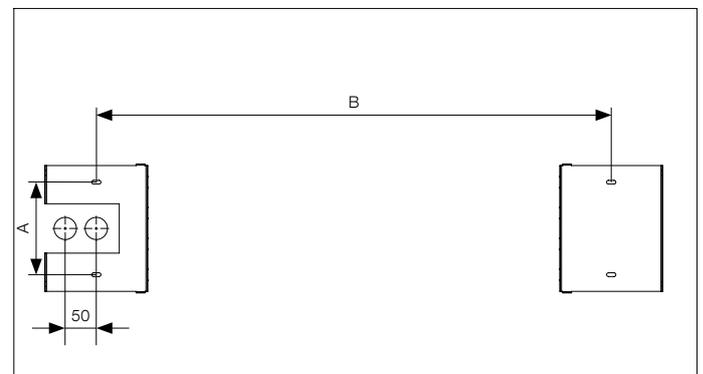
Fastening of KORALINE LKX and LKE wall brackets to a wall



Fastening of KORALINE LKX and LKE brackets to a subfloor



Fastening of KORALINE LD with board to a finished floor



Minimum distance from the wall 100 mm applies to both LKD types.

Typ	A	B
LDX-XXX-30-26	150	L - 170
LDX-XXX-45-31	206	L - 150

L = 1 000, 1 200, 1 400, 1 600, 1 800, 2 000 mm

BASIC TECHNICAL PARAMETERS

KORALINE Exclusive LKX							
Height [mm]	Height 90			Height 150			
Width [mm]	Width 130	Width 180	Width 230	Width 80	Width 130	Width 180	Width 230
Temp. exponent n [-]	1,4021	1,3880	1,3752	1,4503	1,3900	1,4204	1,4302
K_M [-]	2,8732	4,7196	7,1435	1,7482	4,2880	6,2073	8,0258
Characteristic equation	$\phi = K_M \cdot \Delta T^n$						
Convector weight [kg/m]	4,860	6,150	7,260	5,250	6,830	8,560	10,150
Water volume [l/m]	0,298	0,450	0,602	0,298	0,602	0,907	1,211
Effective exchanger section [mm]	L-186	L-174	L-186	L-186	L-234	L-186	L-234

KORALINE Exclusive LKX								
Height [mm]	Height 230				Height 300			
Width [mm]	Width 80	Width 130	Width 180	Width 230	Width 80	Width 130	Width 180	Width 230
Temp. exponent n [-]	1,4250	1,3958	1,4115	1,4215	1,4298	1,4009	1,4038	1,4139
K_M [-]	2,6900	4,6780	7,5788	9,7968	2,8369	4,9381	8,5800	11,0894
Characteristic equation	$\phi = K_M \cdot \Delta T^n$							
Convector weight [kg/m]	7,550	8,270	10,100	11,680	8,770	9,530	11,350	12,300
Water volume [l/m]	0,602	0,602	0,907	1,211	0,602	0,602	0,907	1,211
Effective exchanger section [mm]	L-186	L-234	L-186	L-234	L-186	L-234	L-186	L-234

KORALINE Economic LKE							
Height [mm]	Height 90			Height 150			
Width [mm]	Width 130	Width 180	Width 230	Width 130	Width 180	Width 230	Width 230
Temp. exponent n [-]	1,4021	1,3880	1,3752	1,3900	1,4204	1,4302	1,4302
K_M [-]	2,8732	4,7196	7,1435	4,2880	6,2073	8,0258	8,0258
Characteristic equation	$\phi = K_M \cdot \Delta T^n$						
Convector weight [kg/m]	4,860	6,150	7,260	6,830	8,560	10,150	10,150
Water volume [l/m]	0,298	0,450	0,602	0,602	0,907	1,211	1,211
Effective exchanger section [mm]	L-186	L-174	L-186	L-234	L-186	L-234	L-234

KORALINE Economic LKE							
Height [mm]	Height 230			Height 300			
Width [mm]	Width 130	Width 180	Width 230	Width 130	Width 180	Width 230	Width 230
Temp. exponent n [-]	1,3958	1,4115	1,4215	1,4009	1,4038	1,4139	1,4139
K_M [-]	4,6780	7,5788	9,7968	4,9381	8,5800	11,0894	11,0894
Characteristic equation	$\phi = K_M \cdot \Delta T^n$						
Convector weight [kg/m]	8,270	10,100	11,680	9,530	11,350	12,300	12,300
Water volume [l/m]	0,602	0,907	1,211	0,602	0,907	1,211	1,211
Effective exchanger section [mm]	L-234	L-186	L-234	L-234	L-186	L-234	L-234

KORALINE Exclusive LD		
Height [mm]	Height 300	Height 450
Width [mm]	Width 265	Width 315
Temp. exponent n [-]	1,4290	1,3864
K_M [-]	3,4882	8,3426
Characteristic equation	$\phi = K_M \cdot \Delta T^n$	
Convector weight [kg/m]	16,600	22,300
Water volume [l/m]	1,122	1,451
Effective exchanger section [mm]	L-323	L-274

PRESSURE LOSSES

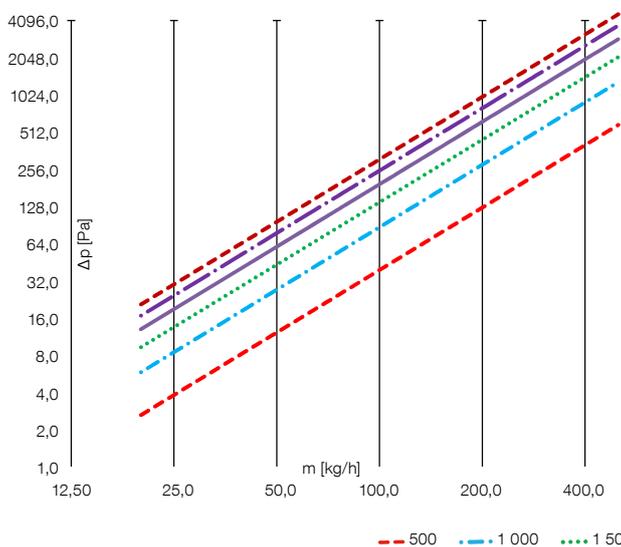
KORALINE LK 9/13, 15/08 (height/width)

Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	3	10	33	48	95	155	225	306	396	496	605	722
800	5	14	46	67	133	216	314	426	552	691	842	1005
1000	6	19	60	87	172	279	406	551	714	893	1089	1300
1200	7	23	74	107	212	344	500	680	881	1102	1343	1604
1400	9	27	88	128	253	411	598	812	1052	1316	1604	1915
1600	10	32	103	149	295	479	697	947	1226	1535	1871	2233
1800	11	37	118	171	338	549	798	1084	1405	1758	2143	2558
2000	13	41	133	193	382	619	901	1224	1586	1985	2419	2887
2200	14	46	148	216	426	691	1005	1366	1770	2215	2700	3222
2400	16	51	164	238	471	764	1111	1510	1956	2448	2984	3562
2600	17	56	180	261	517	838	1219	1656	2145	2685	3272	3906
2800	19	61	196	285	563	912	1327	1803	2336	2924	3564	4254
3000	21	66	212	308	609	988	1437	1952	2529	3165	3858	4605

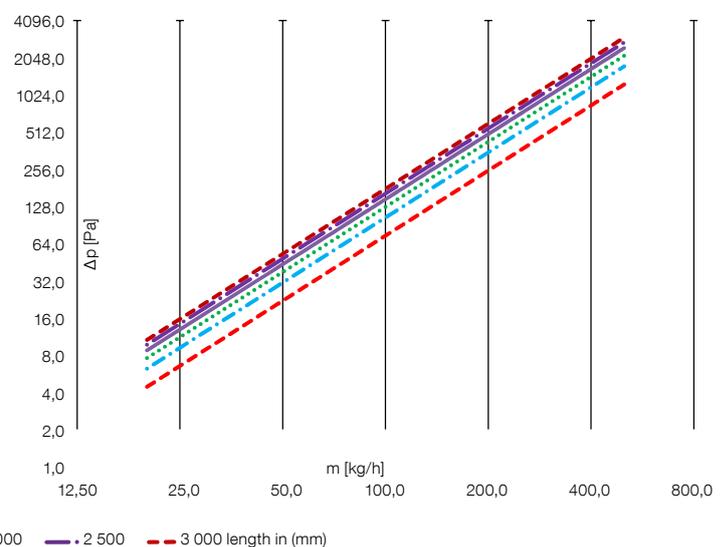
KORALINE LK 9/18 (height/width)

Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	5	16	55	81	165	274	404	556	729	921	1132	1361
800	6	19	63	93	190	315	465	640	839	1060	1302	1566
1000	6	21	71	104	212	351	519	714	935	1181	1452	1746
1200	7	23	77	114	232	384	567	780	1022	1291	1587	1909
1400	7	25	83	123	250	413	611	841	1102	1392	1711	2058
1600	8	26	89	131	267	441	652	898	1176	1486	1826	2196
1800	8	28	94	139	282	467	691	951	1246	1574	1934	2326
2000	9	29	99	146	297	492	727	1001	1311	1657	2036	2449
2200	9	31	104	153	311	515	762	1049	1374	1736	2133	2566
2400	10	32	108	160	325	538	795	1094	1433	1811	2226	2677
2600	10	33	112	166	338	559	827	1138	1490	1883	2314	2783
2800	10	35	117	172	350	580	857	1180	1545	1952	2400	2886
3000	11	36	120	178	362	600	886	1220	1598	2019	2482	2985

KORALINE LK 9/13, 15/08



KORALINE LK 9/18



PRESSURE LOSSES

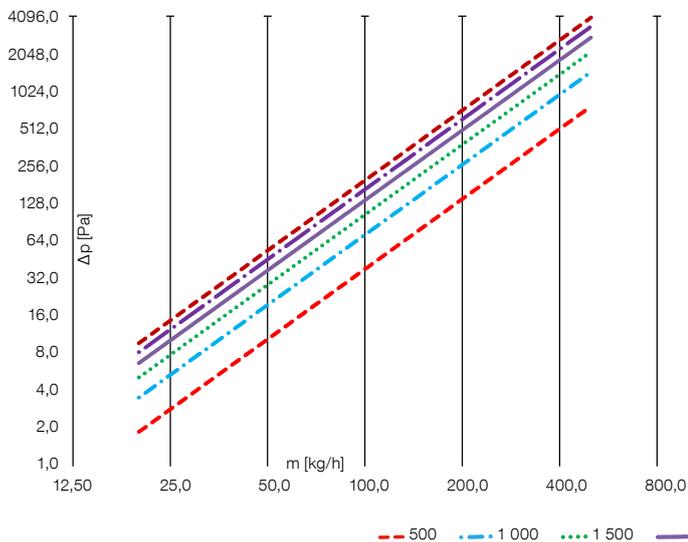
KORALINE LK 23/08, 30/08, 9/23 (height/width)

Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	8	27	90	132	264	432	633	866	1127	1417	1733	2076
800	11	35	115	168	336	550	806	1102	1435	1803	2206	2643
1000	13	42	138	202	405	663	972	1329	1730	2175	2661	3187
1200	15	49	161	236	472	773	1133	1548	2016	2534	3100	3713
1400	17	56	183	268	538	880	1289	1762	2294	2884	3528	4226
1600	19	63	205	300	601	984	1442	1971	2566	3226	3947	4727
1800	21	69	226	331	664	1086	1592	2175	2833	3561	4356	5218
2000	23	75	247	362	725	1187	1739	2376	3094	3890	4759	5700
2200	25	82	268	392	785	1286	1884	2574	3352	4213	5155	6175
2400	27	88	288	422	845	1383	2027	2769	3606	4532	5546	6642
2600	29	94	308	451	904	1479	2167	2962	3856	4847	5931	7103
2800	31	100	328	480	962	1574	2306	3152	4104	5158	6311	7559
3000	32	106	347	509	1019	1668	2444	3339	4348	5466	6687	8010

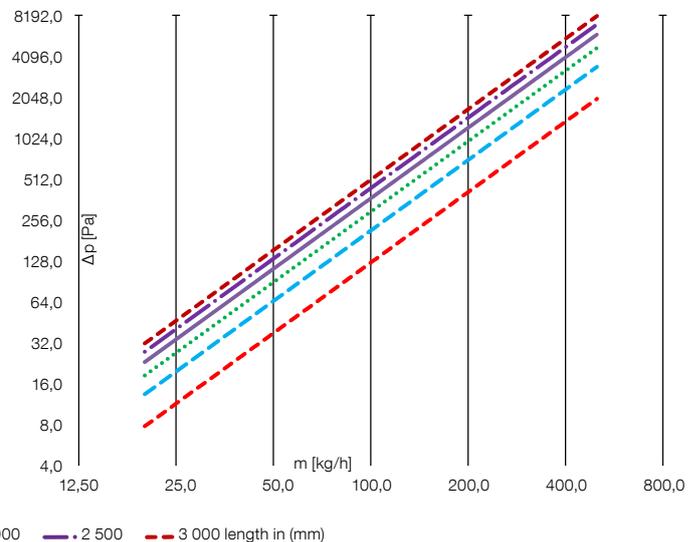
KORALINE LK 15/13, 23/13, 30/13 (height/width)

Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	9	30	98	144	290	475	698	956	1246	1568	1921	2303
800	11	37	123	180	363	595	874	1197	1561	1964	2406	2885
1000	13	44	146	215	432	709	1041	1425	1859	2339	2865	3436
1200	16	51	169	248	498	818	1201	1644	2144	2698	3305	3963
1400	17	58	190	280	562	923	1355	1855	2419	3044	3729	4471
1600	19	64	211	311	624	1024	1505	2059	2686	3380	4140	4964
1800	21	70	232	341	685	1123	1650	2258	2945	3707	4540	5443
2000	23	76	252	370	743	1220	1792	2453	3198	4025	4930	5911
2200	25	82	271	398	801	1315	1931	2643	3446	4337	5312	6369
2400	27	88	290	427	857	1407	2067	2829	3689	4643	5687	6818
2600	28	94	309	454	913	1498	2200	3012	3928	4943	6055	7259
2800	30	99	328	481	967	1588	2332	3192	4162	5238	6416	7693
3000	32	105	346	508	1021	1676	2461	3369	4393	5529	6773	8120

KORALINE LK 23/08, 30/08, 9/23



KORALINE LK 15/13, 23/13, 30/13



KORALINE LK 15/18, 23/18, 30/18 (height/width)

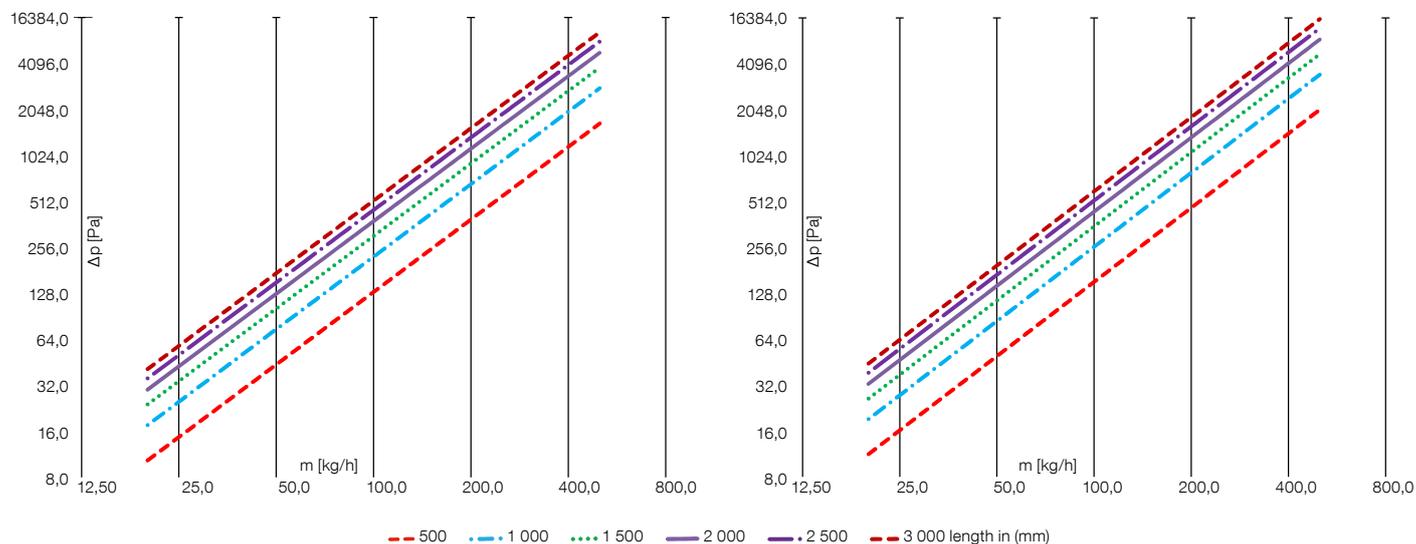
Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	12	41	137	202	408	673	991	1360	1777	2240	2748	3299
800	16	53	175	258	521	858	1264	1734	2266	2856	3504	4207
1000	19	63	211	311	629	1036	1526	2094	2736	3449	4231	5080
1200	22	74	246	363	734	1208	1780	2442	3191	4023	4936	5926
1400	25	84	281	413	836	1377	2027	2782	3635	4583	5622	6750
1600	28	94	314	463	935	1541	2270	3114	4069	5130	6293	7556
1800	31	104	347	511	1033	1702	2507	3440	4495	5667	6952	8346
2000	34	114	379	559	1129	1861	2740	3760	4913	6194	7599	9123
2200	37	124	411	606	1224	2017	2970	4075	5325	6714	8236	9888
2400	40	133	443	652	1317	2170	3197	4386	5731	7226	8864	10642
2600	43	142	474	697	1410	2322	3420	4693	6132	7731	9484	11387
2800	45	151	504	743	1501	2472	3641	4996	6528	8231	10097	12122
3000	48	161	534	787	1591	2621	3860	5296	6920	8725	10703	12850

KORALINE LK 15/23, 23/23, 30/23, LD 30/26 (height/width)

Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	18	58	191	279	559	915	1341	1832	2385	2997	3667	4391
800	22	73	241	352	706	1155	1692	2311	3009	3782	4627	5541
1000	27	88	288	422	845	1383	2026	2768	3604	4530	5542	6637
1200	31	102	334	489	979	1602	2348	3208	4177	5249	6422	7692
1400	35	115	378	554	1109	1815	2660	3634	4731	5946	7275	8713
1600	39	129	421	617	1236	2022	2963	4048	5271	6624	8104	9706
1800	43	141	463	679	1359	2224	3259	4453	5797	7286	8914	10676
2000	47	154	505	739	1480	2422	3549	4849	6313	7934	9707	11625
2200	51	166	545	799	1599	2616	3833	5237	6819	8570	10484	12556
2400	54	179	585	857	1715	2807	4112	5619	7316	9194	11248	13472
2600	58	190	624	914	1830	2994	4387	5995	7805	9809	12000	14372
2800	62	202	662	971	1943	3179	4658	6365	8287	10415	12742	15260
3000	65	214	700	1026	2054	3362	4926	6730	8762	11012	13473	16135

KORALINE LK 15/18, 23/18, 30/18

KORALINE LK 15/23, 23/23, 30/23, LD 30/26

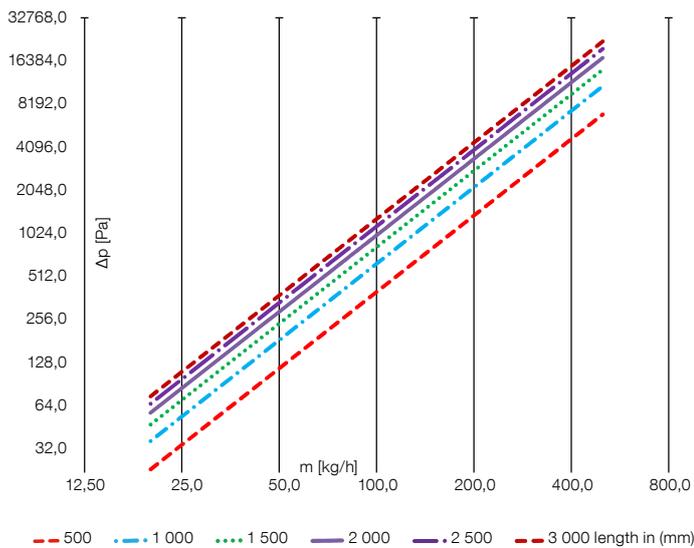


PRESSURE LOSSES

KORALINE LD 45/31 (height/width)

Length L [mm]	Mass-flow rate m [kg/h]											
	20	40	80	100	150	200	250	300	350	400	450	500
	Exchanger pressure losses Δp [Pa]											
600	25	87	297	441	905	1506	2236	3089	4059	5143	6336	7637
800	31	105	359	532	1092	1818	2700	3729	4901	6209	7650	9220
1000	36	122	415	616	1264	2104	3125	4316	5672	7186	8853	10670
1200	40	137	468	694	1424	2371	3521	4863	6391	8097	9975	12023
1400	44	151	517	768	1575	2623	3895	5380	7069	8956	11035	13300
1600	48	165	564	838	1719	2862	4250	5871	7715	9775	12043	14515
1800	52	179	610	905	1857	3092	4591	6342	8334	10558	13008	15678
2000	56	191	653	970	1990	3313	4919	6795	8929	11312	13937	16798
2200	60	204	695	1033	2118	3526	5236	7232	9504	12041	14835	17879
2400	63	216	736	1093	2242	3733	5543	7656	10061	12746	15704	18927
2600	67	227	776	1152	2363	3933	5841	8068	10602	13432	16549	19946
2800	70	238	814	1209	2480	4129	6131	8469	11129	14100	17372	20937
3000	73	249	852	1265	2595	4320	6415	8861	11643	14751	18175	21905

KORALINE LD 45/31





CONVERSION TO OTHER TEMPERATURE GRADIENT

Heat outputs of individual types of convectors were determined by measuring for nominal operating (temperature) conditions 75/65/20 °C ($t_1/t_2/t_i$) under ČSN EN 442. Under such defined basic values of heat outputs of convectors, respective heat outputs stated in this catalogue were derived by conversion for other temperature gradient, 65/55/20 °C and 55/45/20 °C. If the unit is designed with other temperature conditions, it is necessary to make a conversion according to the following relations:

- 1 $\Delta t = \frac{(t_1 + t_2)}{2} - t_i$
- 2 $f = \left(\frac{\Delta t}{50}\right)^n$
- 3 $Q = f \cdot Q_n$
- 4 $m = 0,86 \cdot \frac{Q}{t_1 - t_2}$

Where

t_1	[°C]	input water temperature
t_2	[°C]	output water temperature
t_i	[°C]	internal air temperature
Δt	[K]	temperature gradient
n	[-]	temperature exponent
f	[-]	conversion coefficient
Q_n	[W]	nominal heat output at 75/65/20 °C
Q	[W]	required output
m	[kg/h]	mass-flow rate

The output can also be calculated according to the characteristic equation in the table of basic technical parameters or on www.licon.cz

Calculation example

Given

- heat bench LKX 160/15/23
- input water temperature $t_1 = 60$ °C
- nominal output $Q_n = 2\,159$ W
- output water temperature $t_2 = 50$ °C
- temperature exponent $n = 1,4302$
- internal air temperature $t_i = 22$ °C

Solution

For operating conditions 60/50/22 °C, we calculate the temperature gradient Δt according to the formula 1 and then the value of the conversion coefficient f under the formula 2

- 1 $\Delta t = \frac{(t_1 + t_2)}{2} - t_i = \frac{(60 + 50)}{2} - 22 = 33$ K

In the output table for the required convector size, we find the temperature exponent n . Coefficient f can be also found in the table for selected temperature gradients.

- 2 $f = \left(\frac{\Delta t}{50}\right)^n = \left(\frac{33}{50}\right)^{1,4302} = 0,5520$

The output for the required gradient can be calculated using the equation:

- 3 $Q = f \cdot Q_n = 0,5520 \cdot 2\,159 = 1\,192$ W

Coefficient f for selected temperature gradients for internal air temperature 20 °C

KORALINE LKX, LKE – width 80					
Height [mm]	90/70 °C	85/75 °C	70/50 °C	50/40 °C	45/35 °C
150	1,303	1,303	0,724	0,366	0,265
230	1,297	1,297	0,728	0,372	0,271
300	1,298	1,298	0,727	0,371	0,270

KORALINE LKX, LKE – width 130					
Height [mm]	90/70 °C	85/75 °C	70/50 °C	50/40 °C	45/35 °C
90	1,291	1,291	0,731	0,378	0,277
150	1,288	1,288	0,733	0,382	0,280
230	1,290	1,290	0,732	0,380	0,278
300	1,291	1,291	0,732	0,379	0,277

KORALINE LKX, LKE – width 180					
Height [mm]	90/70 °C	85/75 °C	70/50 °C	50/40 °C	45/35 °C
90	1,288	1,288	0,734	0,382	0,280
150	1,296	1,296	0,728	0,374	0,272
230	1,293	1,293	0,730	0,376	0,274
300	1,292	1,292	0,731	0,378	0,276

KORALINE LKX, LKE – width 230					
Height [mm]	90/70 °C	85/75 °C	70/50 °C	50/40 °C	45/35 °C
90	1,285	1,285	0,736	0,385	0,284
150	1,298	1,298	0,727	0,371	0,270
230	1,296	1,296	0,728	0,373	0,272
300	1,294	1,294	0,729	0,375	0,274

KORALINE LD – width 265					
Height [mm]	90/70 °C	85/75 °C	70/50 °C	50/40 °C	45/35 °C
300	1,298	1,298	0,727	0,371	0,270

KORALINE LD – width 315					
Height [mm]	90/70 °C	85/75 °C	70/50 °C	50/40 °C	45/35 °C
450	1,288	1,288	0,734	0,371	0,281

DATA FOR PLACING ORDERS

KORALINE Exclusive LKX

Convector KORALINE	Version Exclusive	Length (cm)	Height (cm)	Width (cm)	Type	Colour code
LK	X	- ... /	.. /	.. -	V	- 10

Order code example **LKX-140/23/18-V-10**

KORALINE Exclusive length 140 cm, height 23 cm, width 18 cm, colour RAL 9016.

KORALINE Economic LKE

Convector KORALINE	Version Economic	Length (cm)	Height (cm)	Width (cm)	Type	Colour code
LK	E	- ... /	.. /	.. -	V	- 10

Order code example **LKE-120/15/13-V-10**

KORALINE Economic length 120 cm, height 15 cm, width 13 cm, colour RAL 9016.

KORALINE LD with wooden board

Convector KORALINE with board	Version	Length (cm)	Height (cm)	Width (cm)	Type	Colour code	Panel version
LD	E = Economic X = Exclusive	- ... /	.. /	.. -	V	- 10	D – oak B – beech O – American walnut

Order code example **LDX-140/45/31-V-10-O**

KORALINE with board, version Exclusive (stainless steel AISI 316), length 140 cm, height 45 cm, width 31 cm, colour RAL 9016, American walnut board.

Order code example **LDE-180/30/26-V-10-B**

KORALINE with board, version Economic (galvanised steel), length 180 cm, height 30 cm, width 26 cm, colour RAL 9016, beech board.

Warranty

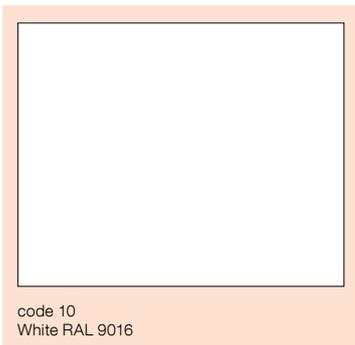
Warranty period of the product is 2 years. Exchanger tightness warranty period is 10 years. Complete operating and warranty conditions are available at the manufacturer or on www.licon.cz. The manufacturer is not responsible for damages caused by transport, incorrect assembly

or damages due to incorrect electrical or heat system installation (e.g. fluctuating voltage or hydraulic pressure, which varies substantially from normal values). The company Licon Heat, s.r.o. reserves the right to change technical specifications without prior notice.

Customised production

Thanks to modern production technologies, it is possible to manufacture atypical convector sizes.

COLOUR CHART



code 10
White RAL 9016



code 14
Jasmine



code 16
Bahama



code 22
Manhattan



code 26
Pergamon



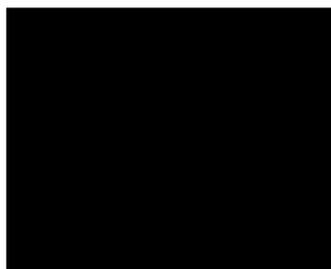
code 32
Anthrazit Metallic



code 35
Silber RAL 9006



code 37
Red RAL 3001



code 39
Black RAL 9005



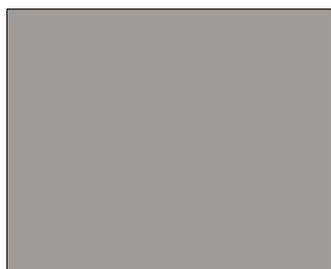
code 40
Alloy Black



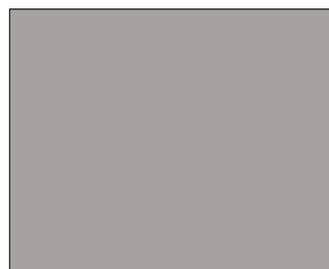
code 42
Gold



code 45
Pearl Brown



code 47
RAL 9007



code 48
RAL 9006



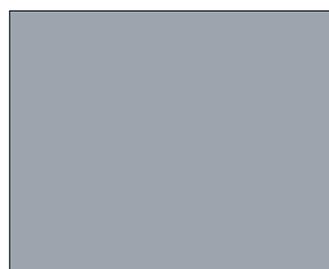
code 49
RAL 7024



code 51
RAL 7016



code 54
RAL 7015



code 57
RAL 7040

Notification:

Colour variation from the colour chart as compared with the convector colour is possible. Basic colour is RAL 9016 white, other colours stated in the colour chart for an additional charge of 30 %. Heating units are available in other colour versions according to RAL colour chart for an additional charge of 40 %.



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