



## FREESTANDING CONVECTORS SC

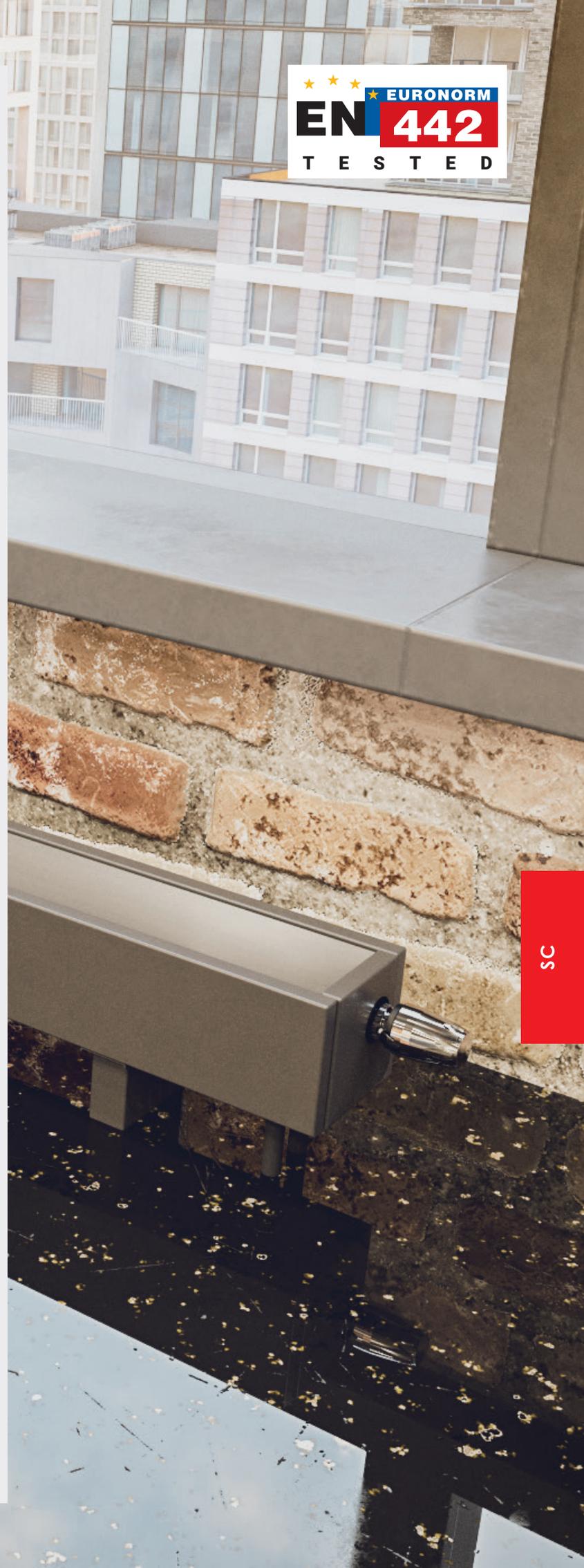
 FOR HEATING

 NATURAL CONVECTION

- 288 models x 2 types
- Perfect for rooms where installation of trench convectors not possible or not necessary
- Attractive classic design
- Tested according to EN442 in independent accredited laboratory
- 10 year warranty for heat exchangers
- Safe casings - all sharp edges are rounded
- Low heights (from 14,5 cm) - not obstructive for large windows
- Exceptional rigidity: can withstand weight of few people
- Highly efficient, rapid and economic copper - aluminium heat exchangers
- Possibility to install on the floor or on the wall
- Good compatibility with heat pumps
- Low surface temperature even at maximum heating output
- Easy installation and maintenance



2024



# FREESTANDING CONVECTORS **SC**

Freestanding convectors SC operate on the principle of **natural convection** and are an economic alternative to trench heaters. Their heating capacity is high, which means they may be used as the main heaters for low to medium energy performance buildings.

Due to **extremely low inertia**, can quickly increase and precisely maintain the set room temperature, **providing the room with exactly as much heat as you require just when it is required.**

Create an effective warm air curtain for large windows, without allowing cold to penetrate the premises. The heat is perfectly distributed throughout the room.

The standard colour is white, but they **are also available in other RAL standard colours on request.**

Classic design and wide range of colour options **allow** the convectors to be **adapted to a wide range of the interior designs and styles**, while the low casing will **not obstruct the view through the window.**

The casings are **safe**: they have no sharp edges and do not reach temperatures over 40°C.

The design is simple and has been created for a **fast and easy installation.**



### 10-year warranty for heat exchangers

We are confident in the longevity of our heat exchangers; therefore, we provide them with a 10-year guarantee.



### Tested according to EN442

The outputs of freestanding convectors SC have been tested by independent accredited laboratories according to the latest standards.

**With us, 1 kW means 1 kW.**



### Maximum operating pressure 25 bar

All the devices are **factory tested** for leaks at a pressure of **30 bar**. The maximum maintained pressure (strength limit) is **110 bar**. Konveka devices easily withstand hydraulic tests and hydraulic shocks and can be installed in extremely tall buildings.



### Noiseless

Completely noiseless operation



### Reinforced casings

Casings of convectors SC are very sturdy: they can maintain the weight of few people



### Small water content

Due to small water content convectors SC have extremely low inertia. Thus, they precisely maintain set room temperature avoiding redundant overheating



### Easy and fast installation

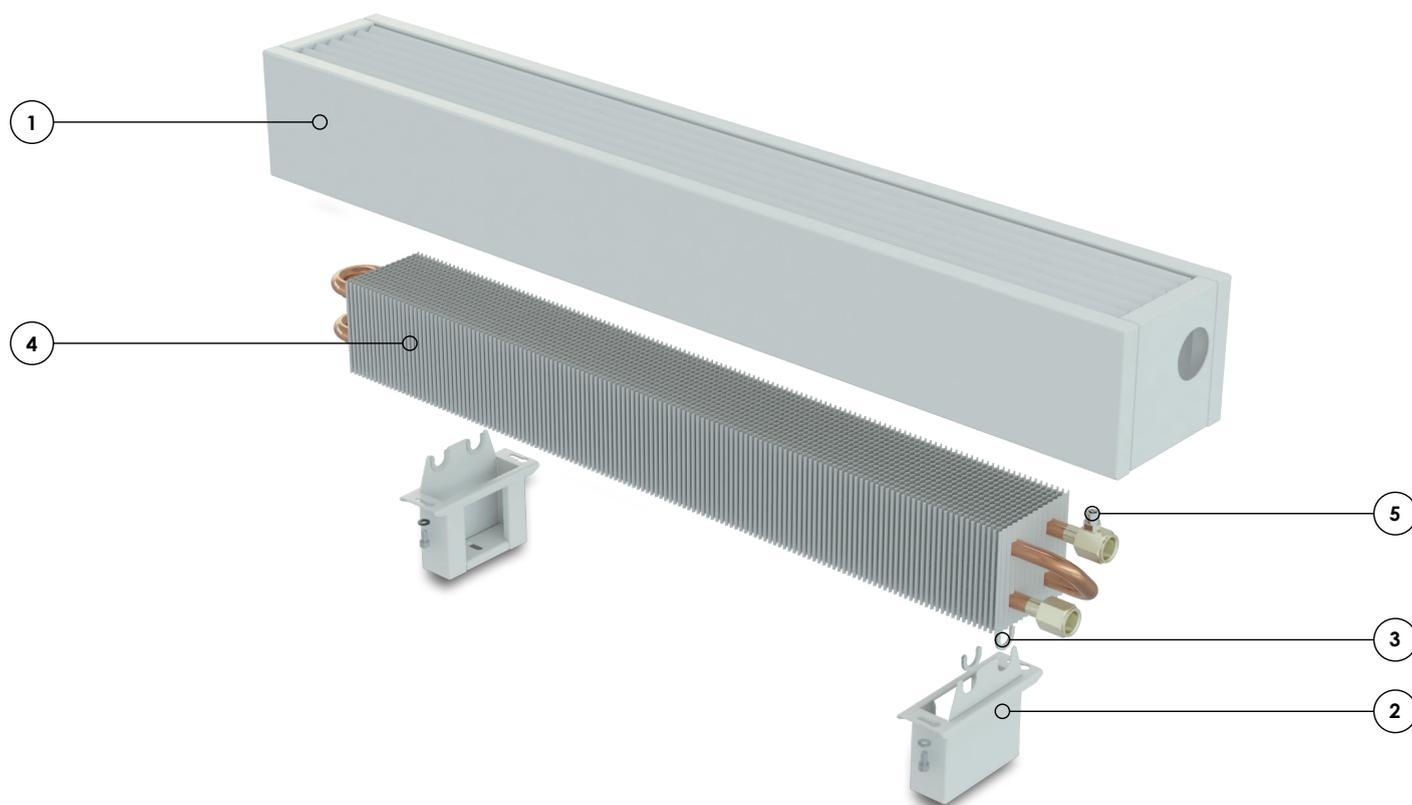
Convectors SC designed for easy and fast installation and maintenance



## OVERVIEW

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288 models	
Length	from 60 to 290 cm
Width	15, 20 and 25 cm
Height	14,5; 21,5; 26,5 and 33 cm
Heat output	up to 5 095 W
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## STANDARD SET



- ① Powder coated steel casing
- ② Powder coated steel brackets
- ③ Heat exchanger fixing-protection elements
- ④ Copper aluminium heat exchanger
- ⑤ Air vent

All fasteners required for installation  
Installation manual

5 layer 2 parts cardboard box, additionally  
used for device protection during installa-  
tion and construction works

# TECHNICAL DETAILS



## Dimensions

Length	from 60 to 290 cm
Width	15, 20 and 25 cm
Height	14,5; 21,5; 26,5 and 33 cm

## Colour

Standard colour	white, RAL 9016
	any RAL colour - optional

## Connections to the heating system

Heat exchanger thread	G 1/2" (inner)
Standart conection side	right
Optional conection side	left

Max operating pressure	25 bar
Max operating temperature	2 - 120°C

## EN442 certified heat outputs, W (75/65/20°C)

Width, cm	Height, cm	Length, cm																							
		60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
15	14,5	178	223	269	314	359	404	449	494	539	585	630	675	720	765	810	855	901	946	991	1 036	1 081	1 126	1 171	1 217
	21,5	272	341	410	479	548	617	686	755	824	893	962	1 031	1 100	1 169	1 238	1 307	1 376	1 445	1 514	1 583	1 652	1 721	1 790	1 859
	26,5	324	407	489	571	653	735	817	900	982	1 064	1 146	1 228	1 310	1 392	1 475	1 557	1 639	1 721	1 803	1 885	1 968	2 050	2 132	2 214
	33	377	472	567	663	758	853	948	1 044	1 139	1 234	1 330	1 425	1 520	1 616	1 711	1 806	1 902	1 997	2 092	2 188	2 283	2 378	2 474	2 569
20	14,5	267	335	403	471	538	606	674	741	809	877	945	1 012	1 080	1 148	1 215	1 283	1 351	1 419	1 486	1 554	1 622	1 689	1 757	1 825
	21,5	409	512	616	719	823	926	1 029	1 133	1 236	1 340	1 443	1 547	1 650	1 754	1 857	1 961	2 064	2 168	2 271	2 374	2 478	2 581	2 685	2 788
	26,5	487	610	733	856	980	1 103	1 226	1 349	1 473	1 596	1 719	1 842	1 965	2 089	2 212	2 335	2 458	2 582	2 705	2 828	2 951	3 074	3 198	3 321
	33	562	704	846	988	1 130	1 273	1 415	1 557	1 699	1 841	1 984	2 126	2 268	2 410	2 552	2 695	2 837	2 979	3 121	3 263	3 406	3 548	3 690	3 832
25	14,5	373	467	562	656	750	845	939	1 034	1 128	1 222	1 317	1 411	1 505	1 600	1 694	1 789	1 883	1 977	2 072	2 166	2 261	2 355	2 449	2 544
	21,5	571	715	860	1 004	1 148	1 293	1 437	1 582	1 726	1 871	2 015	2 160	2 304	2 448	2 593	2 737	2 882	3 026	3 171	3 315	3 460	3 604	3 749	3 893
	26,5	659	825	992	1 159	1 326	1 492	1 659	1 826	1 993	2 160	2 326	2 493	2 660	2 827	2 993	3 160	3 327	3 494	3 660	3 827	3 994	4 161	4 327	4 494
	33	747	936	1 125	1 314	1 503	1 692	1 881	2 070	2 259	2 448	2 637	2 827	3 016	3 205	3 394	3 583	3 772	3 961	4 150	4 339	4 528	4 717	4 906	5 095

Heat outputs at specific temperatures are available at [www.konveka.com](http://www.konveka.com)



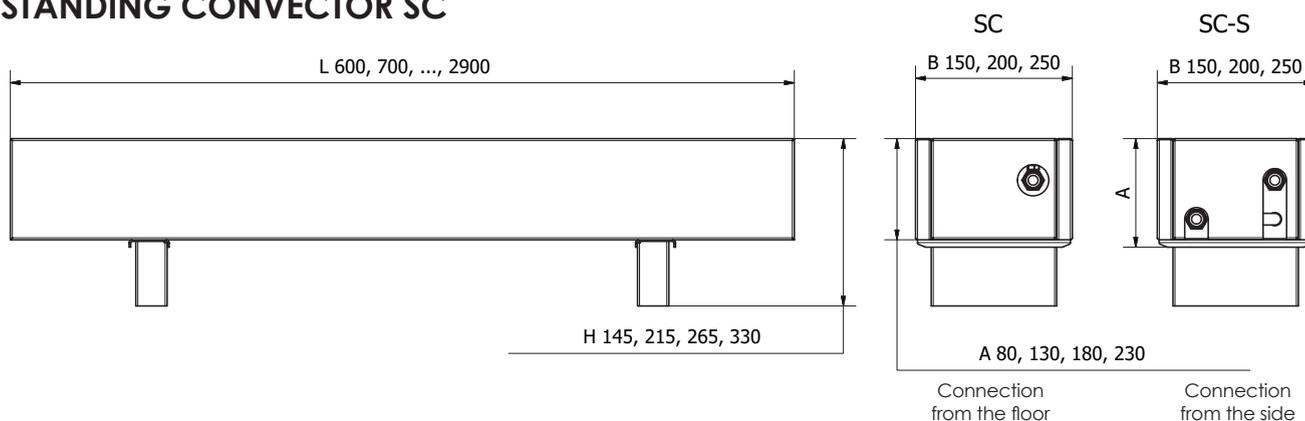
## Pressure losses

Width, cm	Height, cm	MAX flow	MAX power	Formulas for pressure losses, Pa
15	8	122	1 420	$(L-0,2) \times (0,0074 \times q^2 - 0,0501 \times q + 0,0796)$
	13	190	2 204	$(L - 0,2) \times (0,0078 \times q^2 + 1,309 \times q - 20,44)$
20	18	226	2 627	$(L-0,2) \times (0,0111 \times q^2 + 2,2429 \times q - 58,22)$
	23	246	2 858	$(L-0,2) \times (0,0157 \times q^2 + 2,6179 \times q - 40,88)$
	8	171	1 986	$(L - 0,24) \times (0,0022 \times q^2 + 0,304 \times q + 4,12)$
	13	265	3 083	$(L - 0,2) \times (0,0111 \times q^2 + 2,2429 \times q - 58,22)$
	18	316	3 676	$(L - 0,24) \times (0,0084 \times q^2 + 0,5728 \times q + 14,976)$
25	23	344	3 998	$(L - 0,2) \times (0,0301 \times q^2 + 1,8654 \times q + 5,7952)$
	8	239	2 779	$(L - 0,2) \times (0,0078 \times q^2 + 1,309 \times q - 20,44)$
	13	371	4 314	$(L-0,2) \times (0,0157 \times q^2 + 2,6179 \times q - 40,88)$
	18	442	5 142	$(L - 0,2) \times (0,0301 \times q^2 + 1,8654 \times q + 5,7952)$
	23	481	5 594	$(L-0,2) \times (0,0313 \times q^2 + 5,2215 \times q - 78,19)$

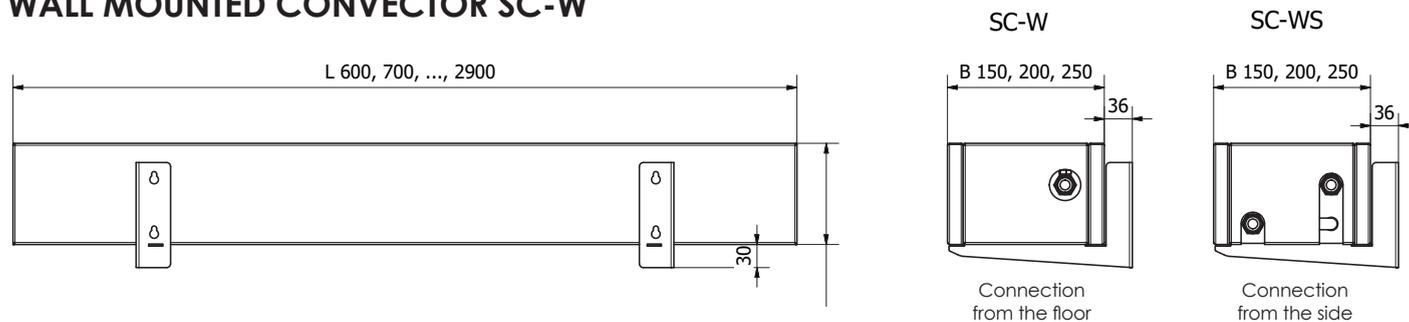
L – Length of trench heater (m)    q – Flow of energy carrier (l/h)

## DIMENSIONS

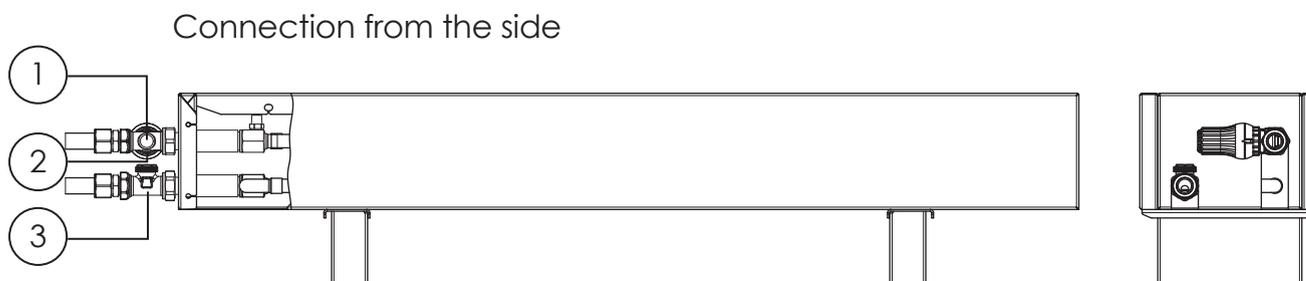
### FREESTANDING CONVECTOR SC



### WALL MOUNTED CONVECTOR SC-W



## EXAMPLE OF CONNECTIONS



- ① Thermostatic valve, axial     
 ② Thermostatic head     
 ③ Angle lockshield valve

## ORDER CODES

Type	Model	Length, cm	Width, cm	Height, cm	Example
Standing convector, connection from floor SC	SC	100	15	8	SC 100-15-08
Standing convector, connection from side SC-S	SC-S	100	15	8	SC-S 100-15-08
Wall mounted convector, connection from floor SC-W	SC-W	100	15	8	SC-W 100-15-08
Wall mounted convector, connection from side SC-WS	SW-WS	100	15	8	SC-WS 100-15-08

SC

## ACCESSORIES

### THERMOSTATIC VALVE (AXIAL) **TVA15**

Controls flow of energy carrier. Controlled by thermostatic head TH



Controls flow with thermostatic head

Possibility to close flow and disconnect heat exchanger from heating system without draining

DN15 Kvs = 2,00

### LOCKSHIELD VALVE (ANGLE) **LA15**

Opens, closes or limits flow of energy carrier



For energy carrier opening, closing and presetting of maximal flow

Possibility to close flow and disconnect heat exchanger from heating system without draining

DN15 Kvs = 1,74

DN20 Kvs = 1,93

### THERMOSTATIC HEAD **TH**

Controls preset room temperature



Temperature range 6°C - 28°C

Accuracy - 0,6K

Max temperature limitation

Frost protection

Thread - M30 x 1,5mm

Body material - ABS

## ORDER CODES FOR ACCESSORIES

Accessory	Order code
Thermostatic valve (axial)	TVA15
Lockshield valve (angle)	LA15
Capillary thermostatic head	TH

## ABOUT KONVEKA

Konveka is a **full production cycle convector manufacturing company** engaged in this activity **since 2005**. The range of products we develop and manufacture is wide: from simple natural convection convectors to complex devices with fans for heating, cooling and ventilation.

Konveka is a manufacturer of high-quality and reliable convectors:

- We provide a **5 - 10 year warranty for all our products** (except their electrical part) without any additional warranty extension fees.
- **The capacities of all our products are determined by independent accredited laboratories** according to current standards. With us, 1kW means 1kW.
- We **do not use cheap, unapproved solutions or use unreliable materials** when designing and manufacturing our devices.

Although we operate in a highly competitive international market, **we are at the forefront where quality, durability and reliability are valued.**

We are well known in **Eastern and Western Europe, Scandinavia, North America and Central Asia**. Konveka products can be seen in many prestigious buildings around the world: administrative buildings, shopping malls, airports, restaurants, theaters, universities, hotels, apartment buildings and individual homes. Visit our website [www.konveka.com](http://www.konveka.com) for more information.

Konveka consistently wins **national awards** (see below) for **reliability, consistency and business growth**.

Our slogan - **“More than you expected”** reflects the quality of our products and technical solutions, which often exceed customer expectations. We value our customers and are happy to be a part of their successful business.









Konveka, UAB  
Vokieciu 185, LT-45251 Kaunas  
Tel. +370 600 05968, +370 677 06303  
Email: donatas@konveka.lt, sales@konveka.lt

**[www.konveka.com](http://www.konveka.com)**