

Genau
mein
Klima.

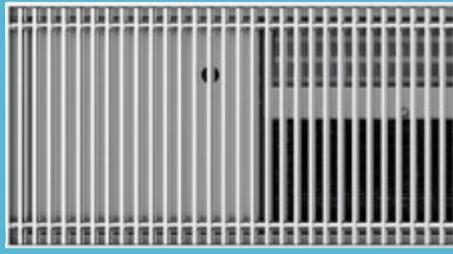
KAMPMAN

Product Overview

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Our product groups at a glance.
Everything is under control with Kampmann.

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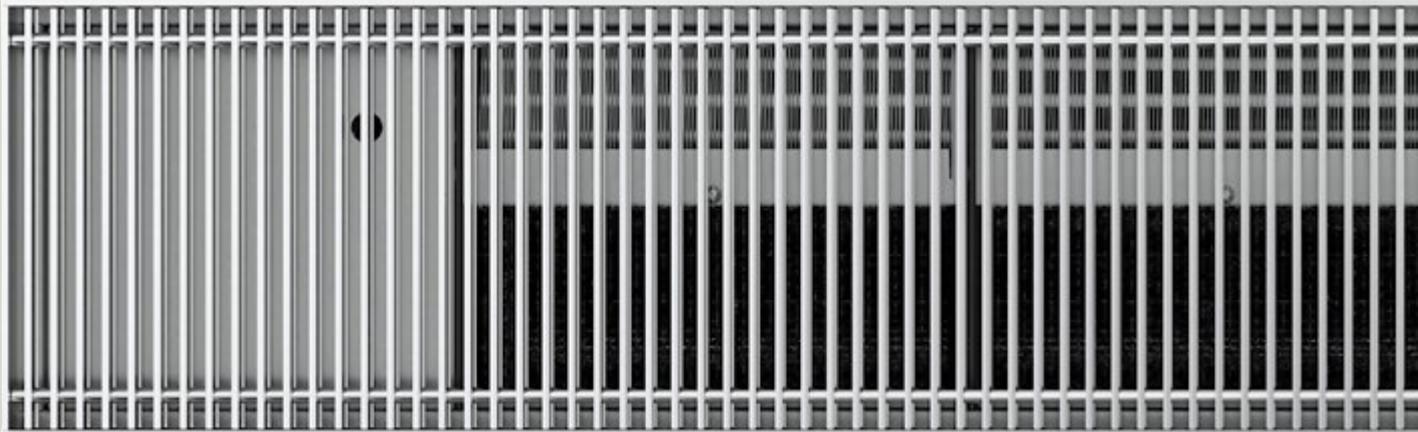
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Sustainability



Trench technology

The trend for large glazed façades and floor-to-ceiling windows continues unabated. Trench technology is the right choice for comfortable air conditioning that does not impede the view outside and effectively screens cold air.

- + large range from simple natural convection models to high-end units that provide heating, cooling and ventilation
- + low-temperature systems with ECM fan assistance
- + fast-responsive heating and cooling with optimised air flow for comfortable air conditioning
- + future-proof cooling systems created in conjunction with chillers and heat-pumps that use minimal refrigerant
- + primary air supply with models for displacement ventilation, with supply air modules for mixed ventilation or as induction units
- + end-to-end project support from the initial idea, site measurement, unit design to site delivery



10,941 Katherm versions: technology leader, thanks to infinite possibilities.

How did we become one of the market leaders in trench technology? It is due to our **wide range of standard versions and also our willingness to deviate from them.** This provides our partners with the perfect combination of tried-and-test design and custom project solutions. Resulting in success for everyone. For you too?

Modular system

Individual **connecting modules between the Kampmann trench systems** create an overall aesthetic look without disruptive interruptions. Don't let architectural challenges hold you back.



Materials and colours



Oak *



Merbau *



Beech *



Maple *

* Lacquered or oiled. Wooden grilles cannot be used for Katherm QE, QK nano, QL and ID units.



Aluminium natural anodised



Aluminium painted DB703 basalt grey



Aluminium bronze anodised



Aluminium black anodised



Aluminium bronze finish



Stainless steel polished



Stainless steel natural



Brass natural

Opt for aluminium grilles in a range of different anodised finishes. Or for different finishes of wooden grilles. Or maybe even polished stainless steel grilles?

Diverse shapes



Adaptations and special designs are normal in projects. Katherm trench heaters can therefore be supplied for all geometries, incorporating mitred corners, curved sections, column cut-outs or angles.



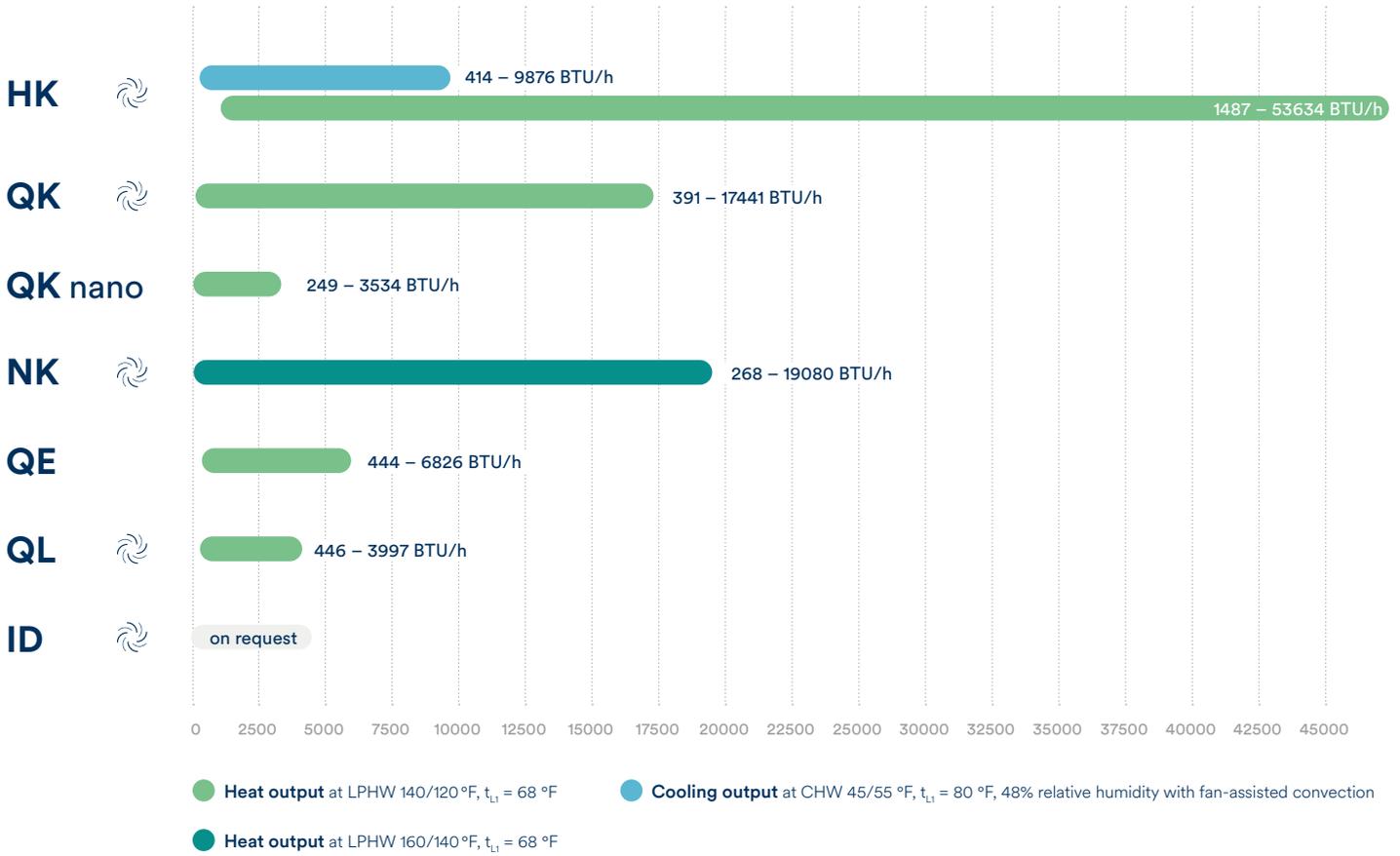
Low temperature

Trench technology has traditionally been used under floor-to-ceiling glazing. High-quality convectors and fan assistance have advanced them into the low-temperature era. They are also very efficient thanks to ECM tangential fans.

Our trench technology at a glance

		Heating	Supply air	Cooling	Heat Pump ready	Water-based coil	ECM tangential fan	Electric heating coil
 <p>Katherm HK</p> <ul style="list-style-type: none"> > simple to clean > heat outputs tested independently > ECM fan - efficient in terms of noise and energy 	✓	✓	✓	✓	✓	✓	✗	
 <p>Katherm QK</p> <ul style="list-style-type: none"> > whisper-quiet ECM technology > optimised for low water temperature > shallow unit depths combined with high outputs 	✓	✓	✗	✓	✓	✓	✗	
 <p>Katherm QK nano</p> <ul style="list-style-type: none"> > extremely low overall height > usual quietness and high performance > FineLine grille 	✓	✗	✗	✓	✓	✓	✗	
 <p>Katherm NK</p> <ul style="list-style-type: none"> > compact, performance-optimised > natural convection > shallow unit depths combined with high outputs 	✓	✓	✗	✗	✓	✗	✗	
 <p>Katherm QE</p> <ul style="list-style-type: none"> > fast heating-up of the room > high heat output combined with low sound levels > minimum trench width and trench height for unobtrusive integration within a room 	✓	✗	✗	✗	✗	✓	✓	
 <p>Katherm QL</p> <ul style="list-style-type: none"> > evenly supplies rooms with conditioned fresh air and heat > low-turbulence room ventilation for a pleasant indoor climate without draughts 	✓	✓	✗	✗	✓	✗	✗	
 <p>Katherm ID</p> <ul style="list-style-type: none"> > extremely quiet by means of flow-optimised nozzles > nozzles can be replaced in operation to adjust output > supply air with post-cooling/heating by induction 	✓	✓	✓	✗	✓	✗	✗	

Heat and cooling outputs



Always fits.

	Widths	Heights	Lengths
HK	9.4 11.4 12.6	5.1 6.3 6.3	36.0 47.2 66.9 78.7 98.4 118.1 37.4 47.2 66.9 78.7 98.4 118.1 36.0 47.2 66.9 78.7 98.4 118.1
QK	7.5 8.5	3.8	min. 30.7 max. 116.5
QK nano	6.1	2.8	min. 35.4 max. 106.3
NK	5.4 7.2 9.1 11.8 15.4	3.6 4.7 3.6 4.7 5.9 7.9	min. 31.5 max. 196.9
QE	8.1	4.4	36.4 49.2 66.9
QL	11.8 13.8	5.9 7.5	27.6 47.2 66.9 86.6 106.3
ID	13.4	7.1 8.1	35.4 39.4 47.2 55.1 63.0

Dimensions in inch. Custom lengths also available



Your extended workbench

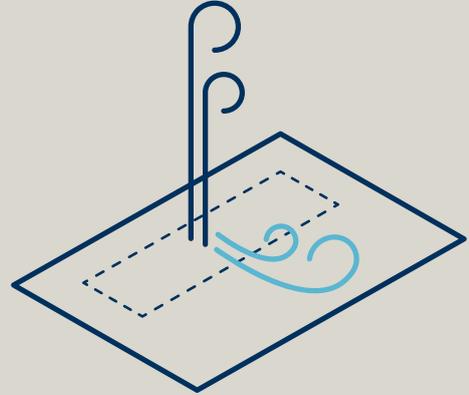
Our project department will work tirelessly for you.

When using trench technology, you also want to make the most of all the benefits of these systems. This can be a complex matter but is worth doing. All the more so as our project department is there for you. That way we'll get the most out of the units. **Often this means using a range of different Katherm models to provide different functions.** Let us design a system for your project, incorporating modules with mitred corners, cut-outs for facade components or columns.

We'll also perfectly manage the logistics to get the systems to site and on site. The precise planned position of each unit is clearly printed on all packages. And it goes without saying that we also pack all units floor by floor. All cleverly worked out to let you concentrate on your job.

From a reliable source

Katherm QL



Two air flows emanate from this source. **Heated air rises up the glazed façade; fresh displacement air then enters the room at a low pulse to ensure complete comfort in the room.**





Hygienic

Katherm HK



It's unique! **Katherm HK** is one of the few trench technologies on the market to include a well-thought-out cleaning concept. The Katherm HK is hygienically flawless, thanks to its improved condensate discharge in cooling mode, coupled with the ease of cleaning of the condensate tray.

BIM data

Use the BIM data sets for Kampmann Katherm trench technology for seamless planning processes. They include **all unit dimensions, technical water and electrical connection dimensions and performance data.**

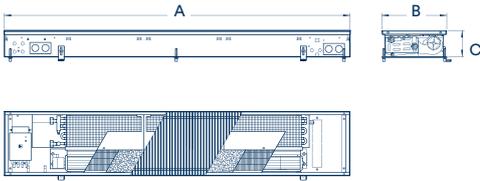
Site measurement

The site measurements are taken by our own **Kampmann technicians using 2D or 3D lasers** to avoid inaccuracies. This ensures a precise and efficient site measurement process. The dimensions will then be automatically handed over to our project department.

It's your choice

Katherm HK

Fan-assisted hydronic heating/cooling



Width B	Height C	Length A	2-pipe		4-pipe	
			Heat output LPHW ¹⁾ [BTU/h]	Cooling output ²⁾ [BTU/h]	Heat output LPHW ¹⁾ [BTU/h]	Cooling output ²⁾ [BTU/h]
12,6	5,1	36	2378-6019	427-1289	1487-3704	414-1251
12,6	5,1	47,2	3498-9927	638-1965	2478-6174	619-1898
12,6	5,1	66,9	1696 – 5232	788-3424	4460-11113	758-3292
12,6	5,1	78,7	6430-19842	876-3804	4956-12347	842-3658
12,6	5,1	98,4	8915-27779	1061-5317	6938-17286	1179-5121
12,6	5,1	118,1	11542-35716	1421-6845	8920-22225	1358-6581
9,6	6,3	36	2173-4955	235-897	1576-3593	222-845
9,6	6,3	47,2	3622-8258	392-1495	2627-5988	369-1408
9,6	6,3	66,9	6520-14864	706-2690	4728-10779	665-2534
9,6	6,3	78,7	7245-16516	784-2989	5253-11977	739-2815
9,6	6,3	98,4	10142-23122	1098-4185	7355-16767	1034-3942
9,6	6,3	118,1	13040-29728	1412-5381	9456-21558	1330-5068
11,4	6,3	37,4	3606-11213	378-1716	1754-5595	372-1683
11,4	6,3	47,2	5456-16555	545-2841	2907-9276	537-2784
11,4	6,3	66,9	5656-24786	741-4554	4661-14872	726-4463
11,4	6,3	78,7	7336-32149	961-5907	6045-19289	942-5789
11,4	6,3	98,4	7793-41144	1195-7621	7798-24884	1215-7468
11,4	6,3	118,1	10530-53634	1581-9876	10106-32247	1548-9678

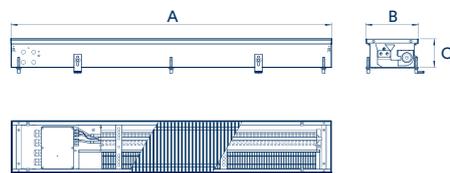
¹⁾ at LPHW 140/120 °F, t_{LI} = 68 °F, with fan-assisted convection

²⁾ at CHW 45/55 °F, t_{LI} = 80 °F, 48% relative humidity with fan-assisted convection

Katherm QE

Fan-assisted electric heating

Width B	Height C	Length A	Max. heat output
[in]	[in]	[in]	[BTU/h]
8.1	4.4	32.5	444-2253
8.1	4.4	49.2	887-4437
8.1	4.4	66.9	1365-6826

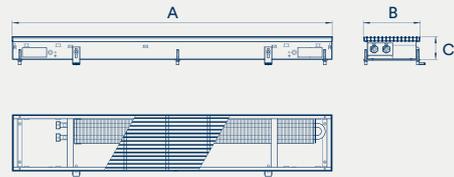


Katherm NK

Natural convection hydronic heating

Width B	Height C	Length A	Heat output ¹⁾
[in]	[in]	[in]	[BTU/h]
5.4	3.6	31.5-196.6	268-3350
5.4	4.7	31.5-196.6	287-3583
7.2	3.6	31.5-196.6	449-4420
7.2	4.7	31.5-196.6	553-5441
7.2	5.9	31.5-196.6	704-6338
7.2	7.9	31.5-196.6	790-7112
9.1	3.6	31.5-196.6	536-5222
9.1	4.7	31.5-196.6	659-6421
9.1	5.9	31.5-196.6	1054-9481
9.1	7.9	31.5-196.6	1141-1272
11.8	3.6	31.5-196.6	713-6948
11.8	4.7	31.5-196.6	913-8906
11.8	5.9	31.5-196.6	1344-12097
11.8	7.9	31.5-196.6	1518-13661
15	3.6	31.5-196.6	951-9273
15	4.7	31.5-196.6	1174-11444
15	5.9	31.5-196.6	1655-14888
15	7.9	31.5-196.6	2120-19080

¹⁾ at LPHW 160/140 °F, $t_{L1} = 68$ °F

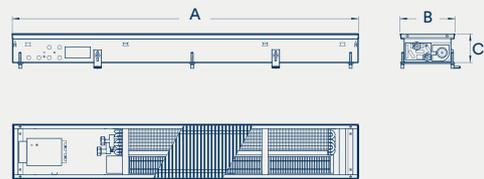


Katherm QK

Fan-assisted hydronic heating

Width B	Height C	Length A	Heat output ¹⁾
[in]	[in]	[in]	[BTU/h]
7.5	3.8	30.7-116.5	391-14321
8.5	3.8	30.7-116.6	451-17441

¹⁾ at LPHW 140/120 °F, $t_{L1} = 68$ °F, with a 0.47 inch grille spacing, free-area approx. 70%

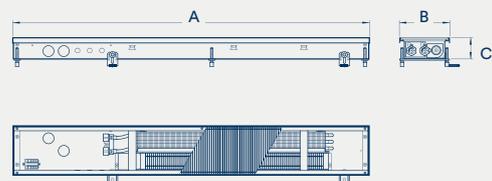


Katherm QK nano

Fan-assisted hydronic heating

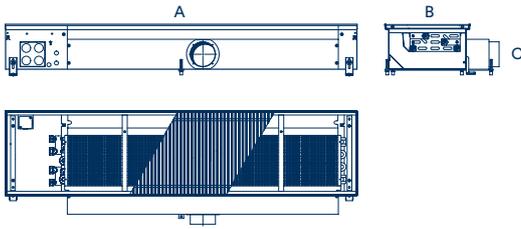
Width B	Height C	Length A	Heat output ¹⁾
(in)	(in)	(in)	[BTU/h]
6.5	2.8	35.4	249-774
6.5	2.8	55.1	497-1549
6.5	2.8	70.9	746-2323
6.5	2.8	82.7	937-2920
6.5	2.8	102.4	1134-3534

¹⁾ at LPHW 140/120 °F, $t_{L1} = 68$ °F



Katherm ID

Heating and cooling with induction and fresh air



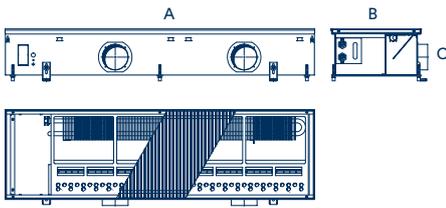
Width	Height	Length		2-pipe		4-pipe	
B	C	A	Primary air volume	Heat output ¹⁾	Cooling output ²⁾	Heat output ¹⁾	Cooling output ²⁾
[in]	[in]	[in]		[BTU/h]	[BTU/h]	[BTU/h]	[BTU/h]
13.4	7.1	31.5	low	990	115	817	115
13.4	7.1	39.4	low	1620	196	1280	196
13.4	7.1	47.2	low	1961	233	1580	233
13.4	7.1	55.1	low	2590	314	2042	314
13.4	7.1	63	low	2931	351	2343	351
13.4	7.1	31.5	medium	1380	176	1030	176
13.4	7.1	39.4	medium	1934	246	1449	246
13.4	7.1	47.2	medium	2488	316	1867	316
13.4	7.1	55.1	medium	3042	386	2285	386
13.4	7.1	63	medium	3596	455	2704	455
13.4	7.1	31.5	high	1530	201	1107	201
13.4	7.1	39.4	high	2183	287	1577	287
13.4	7.1	47.2	high	2836	373	2046	373
13.4	7.1	55.1	high	3298	427	2418	427
13.4	7.1	63	high	3951	513	2888	513
13.4	7.1	31.5	very high	1684	227	1184	227
13.4	7.1	39.4	very high	2213	292	1592	292
13.4	7.1	47.2	very high	2890	382	2073	382
13.4	7.1	55.1	very high	3567	472	2554	472
13.4	7.1	63	very high	4244	562	3036	562
13.4	8.1	31.5	low	1069	135	817	135
13.4	8.1	39.4	low	1758	231	1280	229
13.4	8.1	47.2	low	2123	274	1580	272
13.4	8.1	55.1	low	2811	370	2042	367
13.4	8.1	63	low	3176	413	2343	410
13.4	8.1	31.5	medium	1507	209	1030	206
13.4	8.1	39.4	medium	2111	291	1449	287
13.4	8.1	47.2	medium	2715	374	1867	369
13.4	8.1	55.1	medium	3319	457	2285	451
13.4	8.1	63	medium	3923	540	2704	532
13.4	8.1	31.5	high	1675	238	1107	234
13.4	8.1	39.4	high	2392	341	1577	335
13.4	8.1	47.2	high	3108	444	2046	436
13.4	8.1	55.1	high	3607	508	2418	499
13.4	8.1	63	high	4324	610	2888	600
13.4	8.1	31.5	very high	1850	270	1184	265
13.4	8.1	39.4	very high	2425	347	1592	341
13.4	8.1	47.2	very high	3168	455	2073	446
13.4	8.1	55.1	very high	3911	562	2554	552
13.4	8.1	63	very high	4654	670	3036	657

¹⁾ at LPHW 140/120 °F, t_{L1} = 68 °F

²⁾ at CHW 45/55 °F, t_{L1} = 80 °F, 48% relative humidity

Katherm QL

Natural convection hydronic heating with displacement ventilation



Width B (in)	Height C (in)	Length A (in)	Heat output without primary air flow ¹⁾ [BTU/h]	Heat output with primary air flow ¹⁾ [BTU/h]
11.8	5.9	27.6	446	0
11.8	5.9	47.2	1003	912
11.8	5.9	66.9	1560	1469
11.8	5.9	86.6	2117	2026
11.8	5.9	106.3	2673	2583
11.8	7.1	27.6	567	0
11.8	7.1	47.2	1275	1185
11.8	7.1	66.9	1984	1893
11.8	7.1	86.6	2692	2601
11.8	7.1	106.3	3401	3310
13.8	5.9	27.6	533	0
13.8	5.9	47.2	1198	1108
13.8	5.9	66.9	1864	1773
13.8	5.9	86.6	2530	2439
13.8	5.9	106.3	3195	3105
13.8	7.1	27.6	666	0
13.8	7.1	47.2	1499	1408
13.8	7.1	66.9	2332	2241
13.8	7.1	86.6	3164	3074
13.8	7.1	106.3	3997	3906

¹⁾ at LPHW 140/120°F, t₁ = 68 °F

Your digital product finder:

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Calculate your product online.



Unit heaters

Suitable for use as wall- or ceiling-mounted units for heating, cooling or ventilation in high-ceilinged buildings, industrial buildings, showrooms etc. – as recirculating air, mixed air or primary air units.

- + proven classics, always up to date. Kampmann unit heaters set the standard and are continuously being further developed
- + future-proof ECM technology for energy-efficient and compliant operation
- + from industrial uses to occupied zones. Sturdy steel housings to design units
- + on-board control: ECM technology includes 0-10V control electronics for simple and convenient control
- + heating and cooling with one unit – whether in simple industrial applications or as a comfort system in retail stores and high-end large spaces
- + unit heaters as a component of hybrid ventilation systems: central ventilation, local temperature control



Our number one The TOP

Our unit heater with the simple name – “TOP” – has been at the forefront of the market for over 30 years. How do we do it? We don’t rest on our laurels! Simply the ongoing development of our Number One and all other unit heaters ensures that we always remain TOP in terms of output, energy efficiency, acoustics and control comfort. And our design and trade partners do too.

Gas-free: heat pumps for existing and new industrial sheds

Are you looking for an energy-efficient heating system for your industrial shed but without gas? Our solution: **low water temperature systems**.

Save costs at the same time lower CO₂ emissions compared to gas-fired systems by combining **unit heaters** with **heat pumps** to heat large spaces, industrial sheds and retail spaces.

Heat pumps supply the unit heaters with low-temperature low pressure hot water LPHW for maximum efficiency. The system also produces pleasant temperatures and a comfortable indoor environment without the risk of draughts in the occupied zone.

When the summer warmth arrives

TOP C



Introduce cool air into your hall on hot days with the TOP C. **When your client asks for hall heating, offer cooling as an option.** Up to now only supplied as a project solution, this heating and cooling all-rounder is set to become a standard product.

Minimal noise levels



We only notice how much high noise levels affect us when they are abruptly interrupted. **Our continuously variably controlled unit heaters generate less stress, as they only operate within the power range actually required.** Not one revolution too many or too few. Generating only the noise emissions that are absolutely necessary. At the same time using whisper-quiet sickle-blade fans.

It's lonely at the top

Our size 8 TOP unit heater really stands out, as it is unrivalled in terms of installation height. It copes with **ceiling heights of up to 65 ft** with our KaMax air outlet.

Industry

Our TOP is the unit of choice when you are faced with tough conditions. Ideal when you have to deal with oil in the air, thanks to its sturdy housing, extensive accessories and custom designs. And, with ECM technology, you can now simply design **convenient control systems with the simple and flexible 0-10V or 3-speed interfaces.**



Our unit heaters



Unit heaters for
factories and workshops



TOP

- > design-based range of equipment, "TOP" value for money
- > whisper-quiet sickle-blade fan with energy-efficient ECM technology complies with ErP requirements
- > heat exchanger and fan options for the most diverse applications



TOP C

- > heating or cooling in a 2-pipe system with one unit
- > whisper-quiet sickle-blade fan with energy-efficient ECM technology complies with ErP requirements
- > two capacity levels of copper/aluminium heat exchanger

Fits every time



TOP

Size 4 21.3 × 19.7 × 12.6 inch

Size 5 25.2 × 23.6 × 12.6 inch

Size 6 29.1 × 27.6 × 12.6 inch

Size 7 33.1 × 31.5 × 14.2 inch

Size 8 37 × 35.4 × 26.4 inch

TOP C

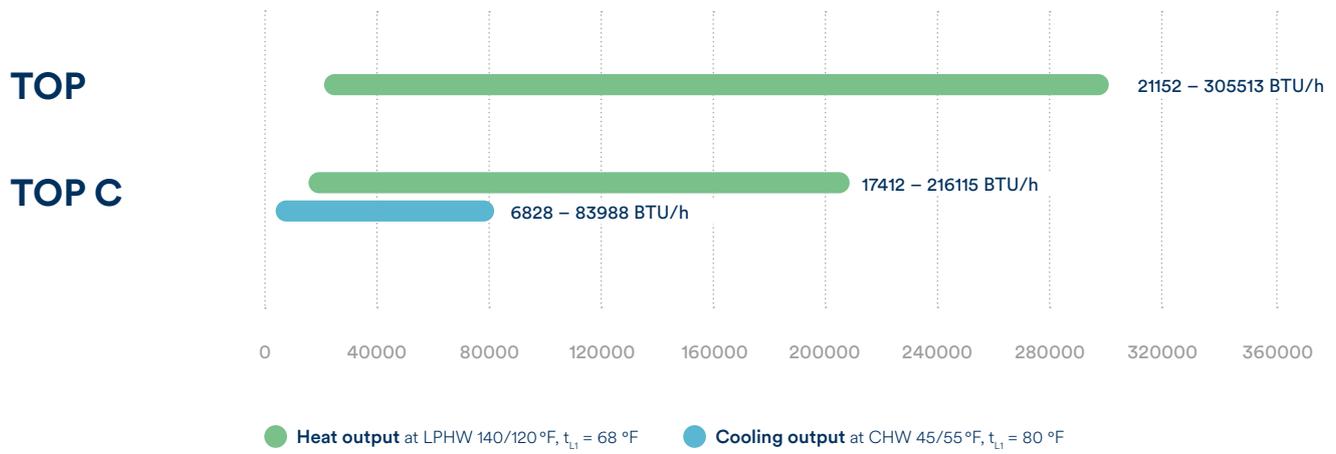
Size 4 23.6 × 22.6 × 22.4 inch

Size 5 27.6 × 26.6 × 22.4 inch

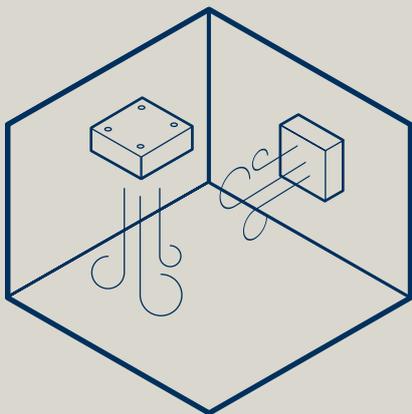
Size 6 31.5 × 34.4 × 22.4 inch

Size 7 35.4 × 34.4 × 22.4 inch

Heat and cooling outputs



Installation options



Wall-mounted

TOP

TOP C ❄️

Ceiling-mounted

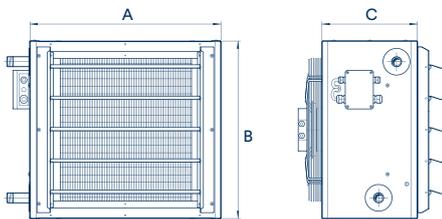
TOP

TOP C (horizontal discharge only) ❄️



It's your choice

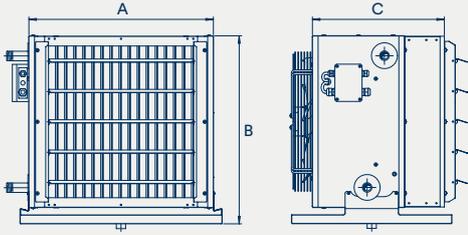
TOP



Copper-aluminium heat exchanger						
Version	Size	Width A	Height B	Depth C	Heat output ¹⁾	Air flow
		[in]	[in]	[in]	[BTU/h]	[cfm]
ECM fan, 120 V,208 V,240 V, high speed	4	21.3	19.7	12.6	22402 - 62325	306 – 1601
	5	25.2	23.6	12.6	21506 - 128127	153 – 2860
	6	29.1	27.6	12.6	25650 - 165181	253 – 4061
	7	33.1	31.5	14.2	51305 - 243773	571 – 5697
	8	37	35.4	26.4	74430 - 305513	806 – 6945
ECM fan, 120 V,208 V,240 V, low speed	4	21.3	19.7	12.6	21988 - 51383	265 – 1301
	5	25.2	23.6	12.6	25776 - 90311	283 – 1984
	7	33.1	31.5	14.2	38721 - 189325	347 – 4603
Heat exchanger, galvanised steel						
ECM fan, 120 V,208 V,240 V, high speed	4	21.3	19.7	12.6	21606 - 61163	324 – 1630
	5	25.2	23.6	12.6	24293 - 116269	377 – 2825
	6	29.1	27.6	12.6	25325 - 149129	465 – 3449
	7	33.1	31.5	14.2	48764 - 200693	695 – 5238
	8	37	35.4	26.4	66929 - 305624	1130 – 7198
ECM fan, 120 V,208 V,240 V, low speed	4	21.3	19.7	12.6	21152 - 50115	283 – 1295
	5	25.2	23.6	12.6	27595 - 85319	500 – 2013
	7	840	800	360	37280 - 157904	536 – 4161

¹⁾ at LPHW 140/120 °F, t₁ = 68 °F

TOP C



medium, heat exchanger code no. 30						
Version	Size	Width A	Height B	Depth C	Heat output ¹⁾	Cooling output ²⁾
		[in]	[in]	[in]	[BTU/h]	[BTU/h]
ECM fan, 200 - 240 V, high speed	4	23.6	22.6	22.4	22875 – 43018	7170 – 15022
	5	27.6	26.6	22.4	20826 – 81256	7853 – 29703
	6	31.5	34.4	22.4	27654 – 116763	10925 – 45067
	7	35.4	34.4	22.4	53260 – 155685	20826 – 66917
ECM fan, 200 - 240 V, reduced speed	4	23.6	22.6	22.4	21509 – 37897	6828 – 12974
	5	27.6	26.6	22.4	24923 – 60772	9560 – 22533
	7	35.4	34.4	22.4	47456 – 127006	18095 – 53943
high, heat exchanger code no. 40						
ECM fan, 200 - 240 V, high speed	4	23.6	22.6	22.4	19119 – 52578	7853 – 17412
	5	27.6	26.6	22.4	15022 – 107887	7853 – 32434
	6	31.5	34.4	22.4	21850 – 144418	11608 – 52919
	7	35.4	34.4	22.4	42335 – 216115	21850 – 83988
ECM fan, 200 - 240 V, reduced speed	4	23.6	22.6	22.4	17412 – 44384	7170 – 15022
	5	27.6	26.6	22.4	20826 – 75794	9560 – 24240
	7	35.4	34.4	22.4	35507 – 165927	19461 – 66234

¹⁾ at LPHW 140/120 °F, t_{LI} = 68 °F
²⁾ at CHW 45/55 °F, t_{LI} = 80 °F, 48% relative humidity

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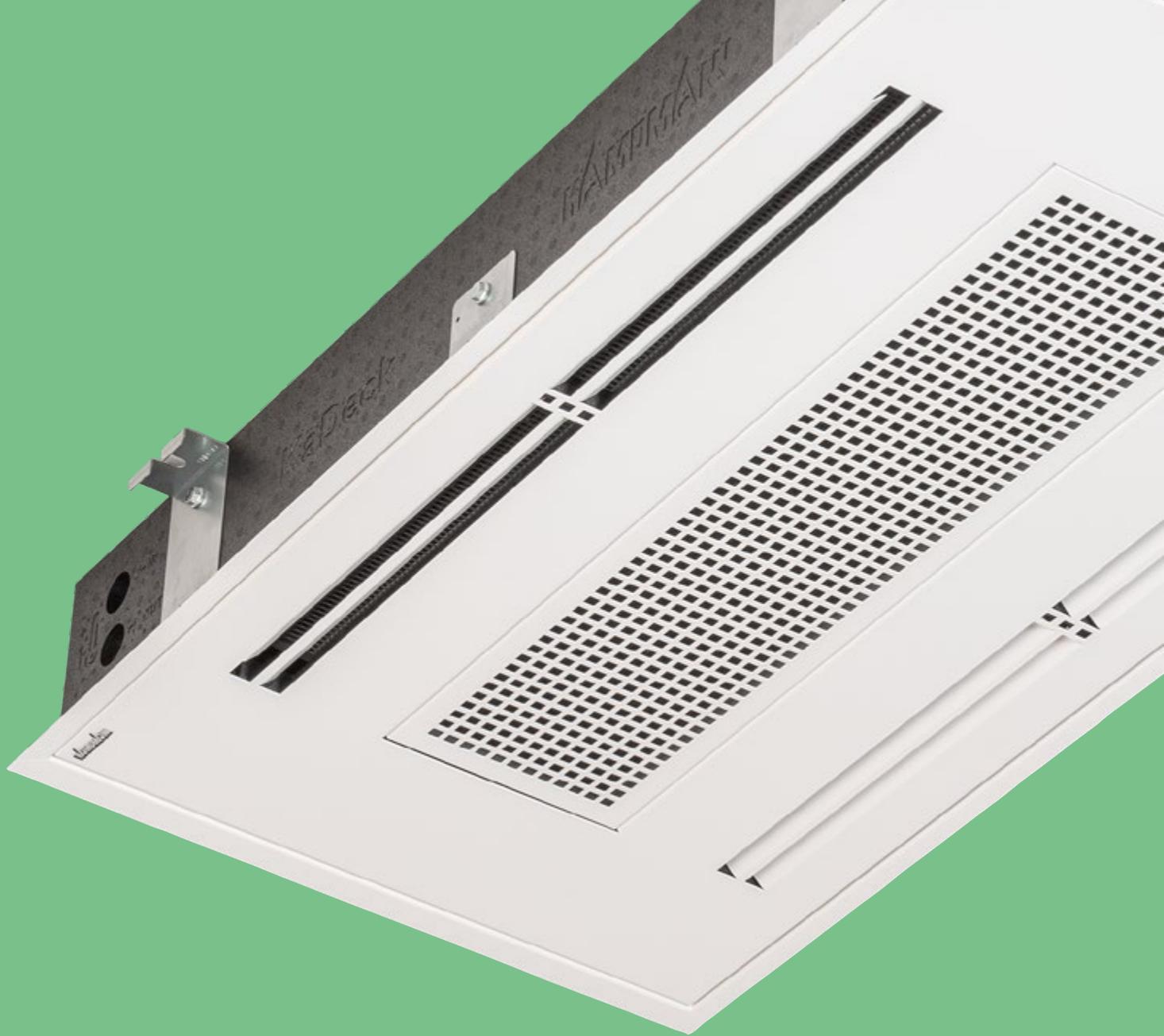
Fan coils

The cooling of buildings is becoming increasingly relevant.

The typical products employed here include fan coils, which, as water-based systems, are as current and useful as never before. No wonder with all their benefits and versatile uses.

Kampmann is at the forefront in different sectors.

- + cooling and heating in conjunction with heat pumps chillers
- + no refrigerant circulating in the building and only small quantities used in the chiller
- + fast response times thanks to powerful and efficient ECM fans
- + for every requirement for installation in and under the ceiling, suspended on the wall or free-standing
- + in hybrid systems to supply primary air and control the temperature of the recirculating air
- + for air conditioning in addition to surface temperature control



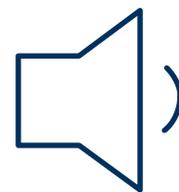
Calling all sensible people

Admittedly “sensible” does not come across as a catchy advertising message. But what if it’s the truth? Sensible designers use fan coils when users ask for a good indoor climate. That’s what fan coils provide. **In the middle of summer, as in winter, and in the shoulder months as well when other systems sometimes struggle. Water-based fan coil systems are also subject to minimal safety requirements and can be adapted to developments on the refrigerant market – so sensible after all?**



Market-leading in low-noise

Venkon



Venkon fan coils fulfil all expectations for a quiet environment, thanks to their energy-saving ECM technology. Peace and quiet so that you can focus on important matters. **Market-leading quiet and nonetheless outstanding outputs at higher fan speed ranges.**

Hygiene experts

Venkon provide compliant air conditioning with sealed surfaces, ideal cleaning options and MERV4, 8 & 13 filters for totally hygienic room air in offices or hotel bedrooms.

And, thanks to the motorised H14 filter for Venkon units, HEPA filters now form an integral part of sustainable air conditioning systems.



Our fan coils at a glance



Venkon

- > lowest profile ductable fancoil
- > several filter options including MERV4, 8 & 13
- > energy efficient ECM fans as standard



Venkon XL

- > XL performance guaranteed
- > for higher external pressure requirements
- > highly optimised, large heat exchanger
- > increased performance with 2-pipe & 4-pipe optimised heat exchanger
- > 2" filters as standard
- > low profile 10.2" design



KaDeck

- > ideal for shallow suspended ceiling heights, installation height of only 165 mm
- > all components (including valves) can be accessed without tools, no inspection openings needed on site
- > thermally and acoustically insulated housing made of EPP (expanded polypropylene)



Baseboard HK

- > extremely quiet
- > space-saving dimensions
- > heating and cooling for residential applications



Wall HK

- > slimline space-saving design
- > available as Recessed or Semi-recessed with cover panel or grilles in drywall or exposed
- > extremely quiet

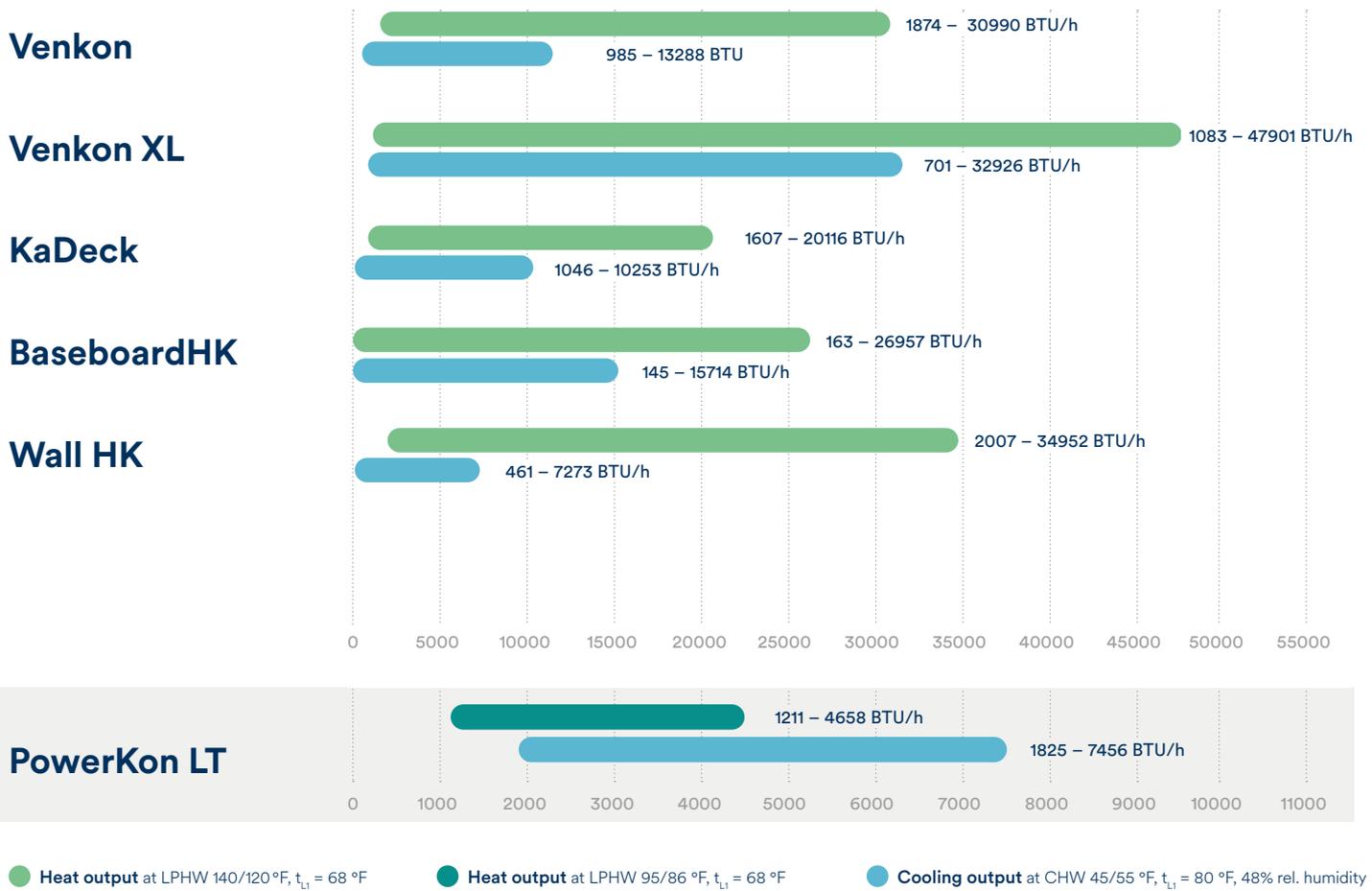


PowerKon LT

- > high heat outputs with low system temperatures
- > up to 25% improved efficiency with a heat pump compared to high-temperature systems
- > eligible for government funding with the installation of a heat pump

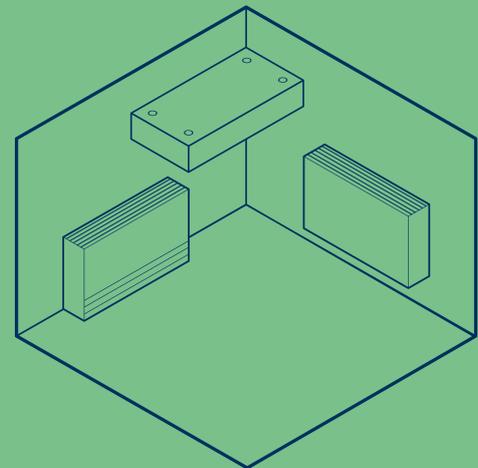


Heat and cooling outputs



Installation options

Floor-mounted	Wall-mounted	Ceiling-mounted
Venkon	Venkon	Venkon
Venkon XL	Wall HK	Venkon XL
Baseboard HK	Baseboard HK	KaDeck





Create space

Venkon

Only Kampmann provides you with fan coils that blend into the room but do not dominate it. In **suspended ceilings or wall-recessed, hotel casings or sill-line casings**. Attractive, **free-standing casings** are of course also available.



Everything under control

KaDeck

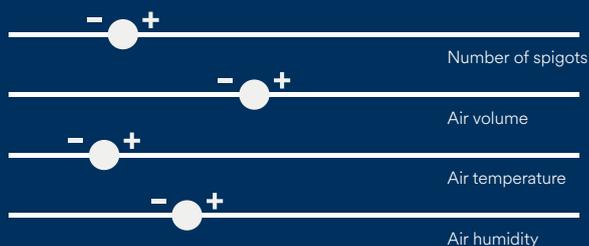


Extremely easy to install and maintenance-friendly:

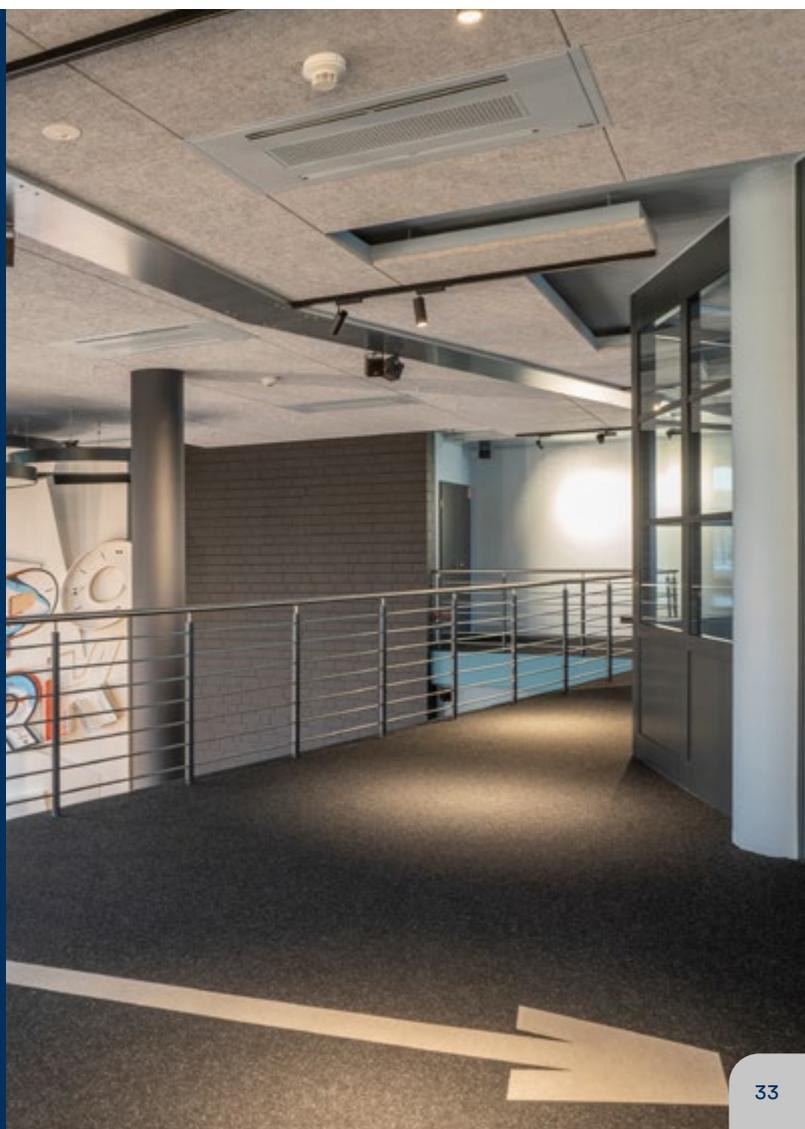
the KaDeck can be simply opened by concealed locks, while the waterside and electric connection areas are arranged in such a way that no further inspection openings are required on site.

All components are easily accessible and maintenance could not be simpler. The KaDeck remains hygienically clean throughout its entire service life.

Primary air calculation



KaDeck introduces primary air into a space, with no additional supply air openings needed in the ceiling. **Conveniently calculate the primary air volume for your project on our website.** You'll find all you need to know there: primary air, heating and cooling outputs, as well as extensive technical data on sound levels and pipework in accordance with your selected control voltage. Then simply download your individual data sheet, bookmark the calculation or immediately send an enquiry about the product.



The low-temperature heat pump system

In almost all heating systems, the temperature of the heating water is crucial for their efficient operation. The exact temperature of this water depends on the combination of heat source and terminal unit selected. For instance, if a gas heating system is replaced by a heat pump the supply temperature can be lowered. Adding a heat pump-based heater enables ultra-low supply temperatures to simultaneously generate high outputs.

- + improved efficiency
- + energy requirement
- + lower heating costs
- + reduced greenhouse gas emissions



The heat pump-based heater for the home

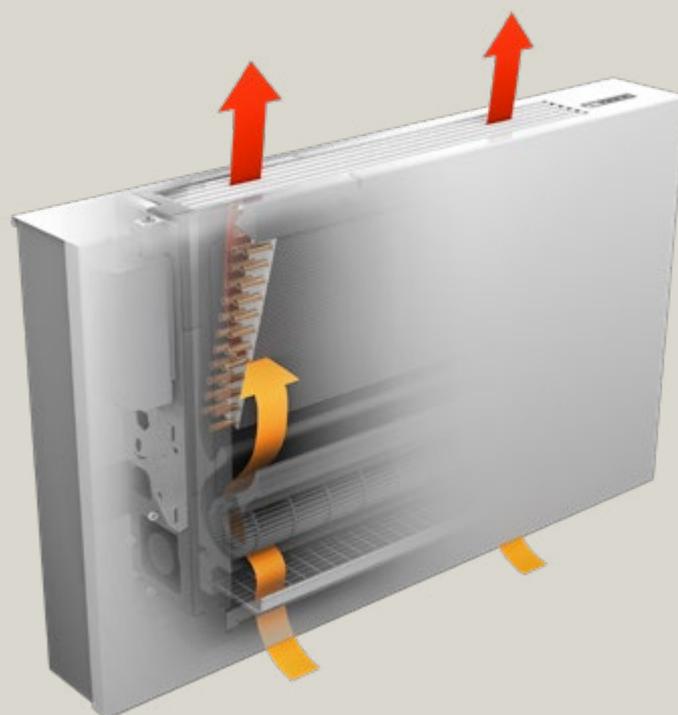
PowerKon LT

The myth that a heat pump in your own home only works with underfloor heating is long out of date. Fan-assisted heaters, also known as heat pump-based heaters or low-temperature heaters, represent a convenient solution for use in the home.

PowerKon LT units are ideal for use in new buildings to fully benefit from the cooling function of the heat pump. However, they are also very popular, especially in existing homes.

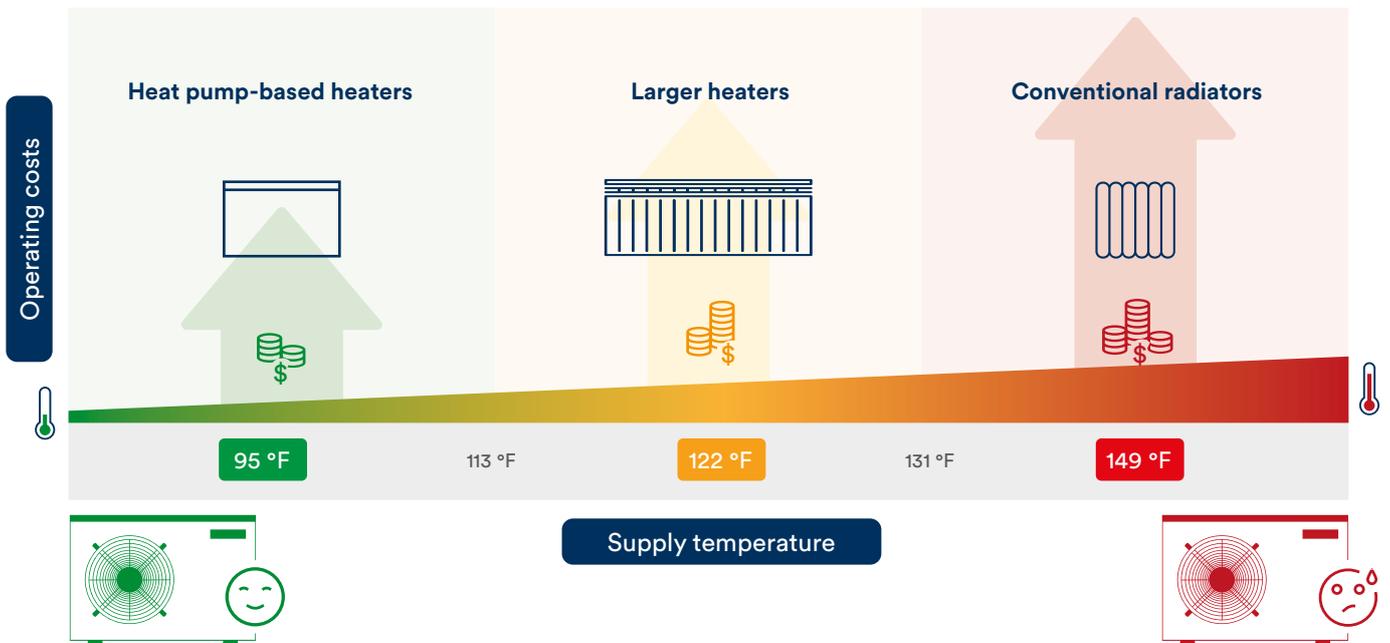
The PowerKon LT makes it easy to switch from an oil or gas heating system to a heat pump.

And they can even have a cooling function, depending on the pipework and individual comfort requirements.





Benefits of heat pump-based heaters



PowerKon LT units fully exploit the benefits of heat pumps: low supply temperatures of 95 °F. Admittedly, heat pumps are frequently capable of delivering higher temperatures, but this is inefficient! A 95 °F low temperature system with a PowerKon LT works around 25 – 35% more efficiently than a high-temperature system operating at 131 °F.

Heating and air conditioning units for heat pumps

Regardless of why you are interested in heat pump solutions, whether to reduce your operating costs or for reasons of sustainability, they contribute to our target of decarbonising our energy supply.



Let us present one of the widest product ranges of units suitable for use with heat pumps – “Heat Pump ready” as it were. Choose our products that carry this label for your future-proofed heating and cooling system.

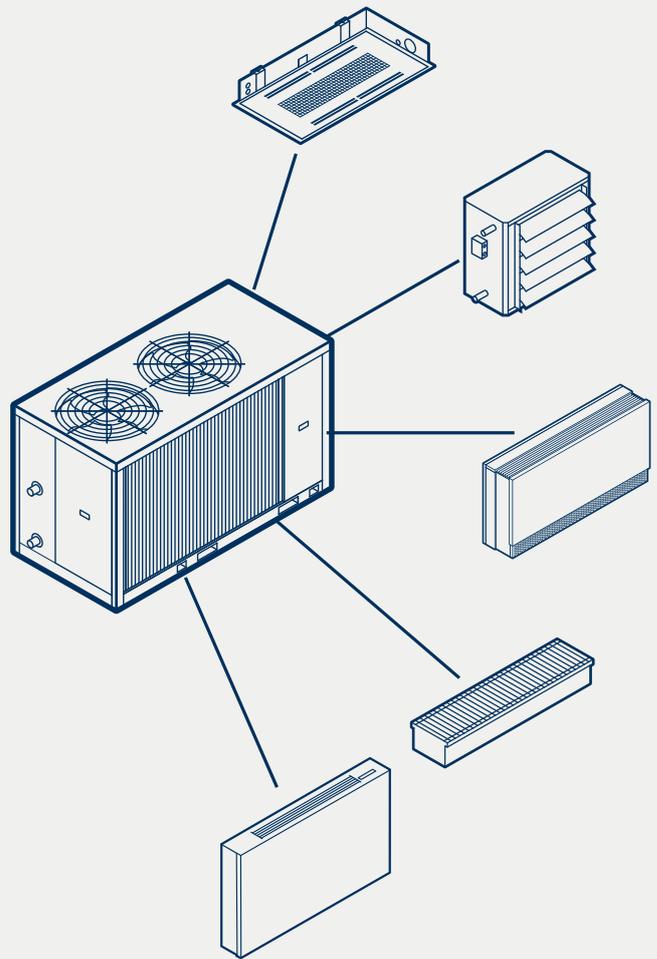


The heat pump system

The basic idea is not new:

a heat source supplies warm water to terminal units, which then use the warm water to control the temperature in the rooms. In the past, we had gas-fired boilers (heat generators), today we have heat pumps.

Today's room units are fan-assisted convectors, where we previously used radiators. Fan-assisted units rapidly achieve 3-4 times the output of conventional radiators particularly when operated with low system temperatures.



Cooling with heat pumps

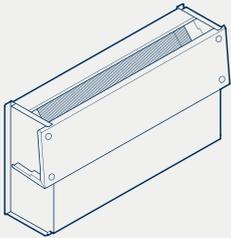
Almost as an after-thought, you also benefit from a heat pump's cooling function. Many heat pumps already incorporate this functionality. You can therefore supply the appropriate room units with hot water, but also with chilled water, which you can use to cool your building. There may be a need for further insulation of the pipes and the removal of condensate water depending on the cooling output you require.

So why not consciously design in a cooling function from the get-go.

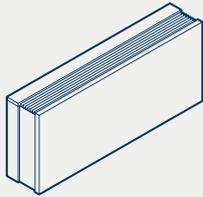
It's your choice

Diverse shapes and options

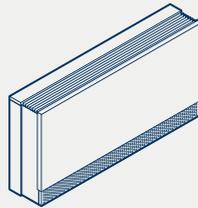
Venkon models



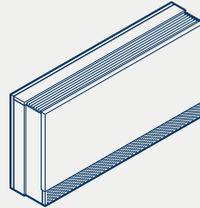
Concealed for ducting
Wall



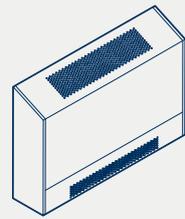
Wall-hanging
Intake on the underside



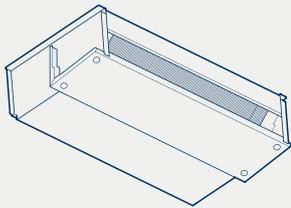
Wall-mounted
Front intake



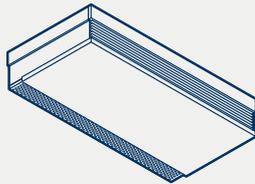
Free-standing
Front intake, with rear panel



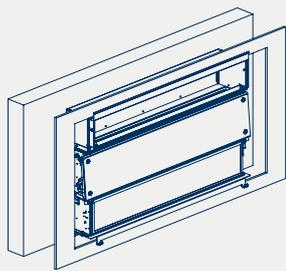
Wall-mounted
School unit



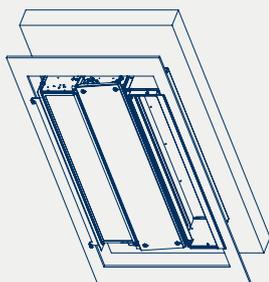
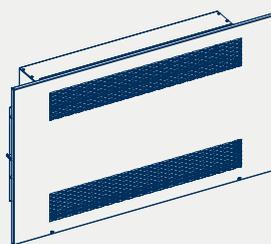
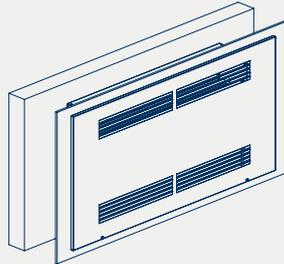
Concealed for ducting
Ceiling



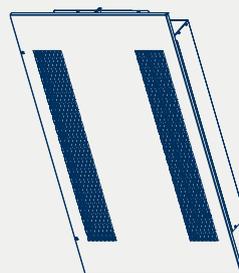
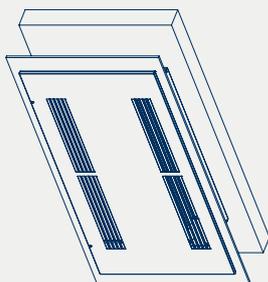
Ceiling
Intake on the underside



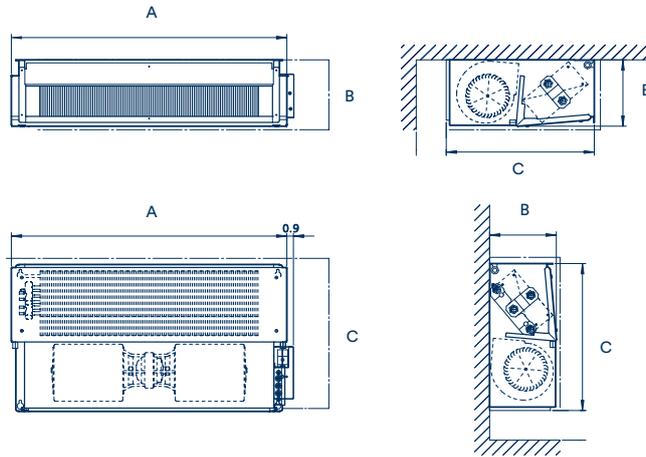
Recessed casing wall



Recessed casing ceiling



Venkon

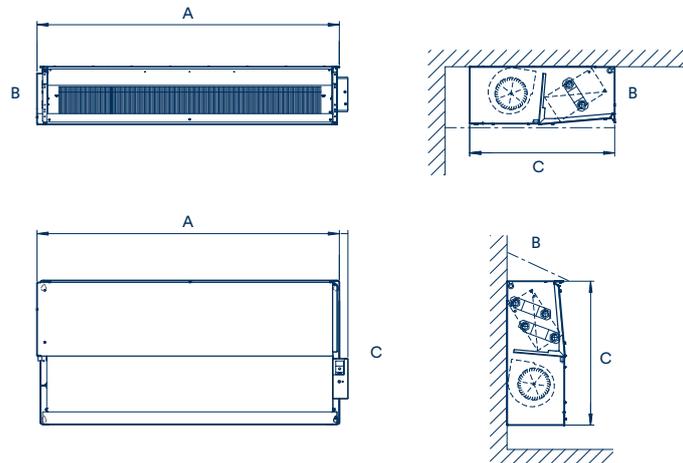


Filter class	Size	A	B	C	Air volume flow	2-pipe		4-pipe	
						Heat output ¹⁾	Cooling output ²⁾	Heat output ¹⁾	Cooling output ²⁾
		[in]	[in]	[in]	[cfm]	[BTU/h]	[BTU/h]	[BTU/h]	[BTU/h]
ISO Coarse filter	61	25.4	8.7	19.4	91 – 454	2439 - 13538	1029 - 5826	1874 - 7619	985 - 5443
	63	37.2	8.7	19.4	196 – 866	4609 - 22780	1864 - 9191	3515 - 13000	1724 - 8245
	66	54.9	8.7	19.4	289 – 1324	7573 - 34735	3183 - 14762	5555 - 19060	2753 - 12103
	67	68.7	8.7	19.4	394 – 1732	9124 - 45625	3844 - 19673	6707 - 24747	3484 - 16985
Filter ePM10>50% (MERV8)	61	25.4	8.7	19.4	52 – 398	1440 - 12535	603 - 5390	1173 - 7170	583 - 5041
	63	37.2	8.7	19.4	115 – 741	2667 - 18974	1080 - 7660	2185 - 11245	1014 - 6895
	66	54.9	8.7	19.4	160 – 1116	4337 - 29447	1813 - 12502	3430 - 16740	1612 - 10310
	67	68.7	8.7	19.4	229 – 1474	5315 - 38048	2220 - 16363	4211 - 21457	2054 - 14209
Filter ePM1>50% (MERV13)	61	25.4	8.7	19.4	27 – 328	783 - 11246	321 - 4830	662 - 6580	314 - 4524
	63	37.2	8.7	19.4	59 – 600	1413 - 15259	569 - 6163	1213 - 9448	545 - 5571
	66	54.9	8.7	19.4	84 – 889	2406 - 23920	988 - 10143	1987 - 14200	907 - 8424
	67	68.7	8.7	19.4	120 – 1187	2770 - 30990	1134 - 13288	2322 - 18240	1081 - 11612

¹⁾ at LPHW 140/120 °F, $t_{li} = 68$ °F

²⁾ at CHW 45/55 °F, $t_{li} = 80$ °F, 48% rel. humidity

Venkon XL

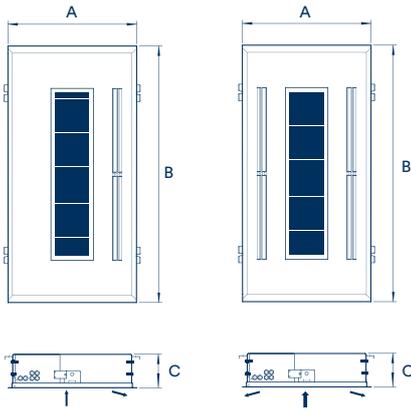


Filter class	Size	A	B	C	Air volume flow	2-pipe		4-pipe	
						Heat output ¹⁾	Cooling output ²⁾	Heat output ¹⁾	Cooling output ²⁾
		[in]	[in]	[in]	[cfm]	[BTU/h]	[BTU/h]	[BTU/h]	[BTU/h]
Filter ePM10>50% (MERV8)	1	24.8	10.3	25.6	173 – 538	2292-13554	1091-5602	1531-9010	975-4830
	2	36.6	10.3	25.6	201 – 928	4356-23913	2069-9889	3383-18800	1851-8559
	3	54.3	10.3	25.6	357 – 1448	6951-36895	3298-15294	5398-29032	2968-13300
	4	68.1	10.3	25.6	409 – 1860	8981-47901	4335-19875	6966-37504	3828-17112
Filter ePM1>50% (MERV13)	1	24.8	10.3	25.6	124 – 493	1556-12502	772-5193	1083-8348	701-4487
	2	36.6	10.3	25.6	127 – 808	2844-21126	1419-8808	2247-16687	1294-7646
	3	54.3	10.3	25.6	237 – 1278	4721-32924	2342-13753	3725-26019	2146-11992
	4	68.1	10.3	25.6	250 – 1595	5564-41829	2853-17531	5198 – 32368	4420-32926

¹⁾ at LPHW 140/120 °F, $t_{li} = 68$ °F

²⁾ at CHW 45/55 °F, $t_{li} = 80$ °F, 48% rel. humidity

KaDeck



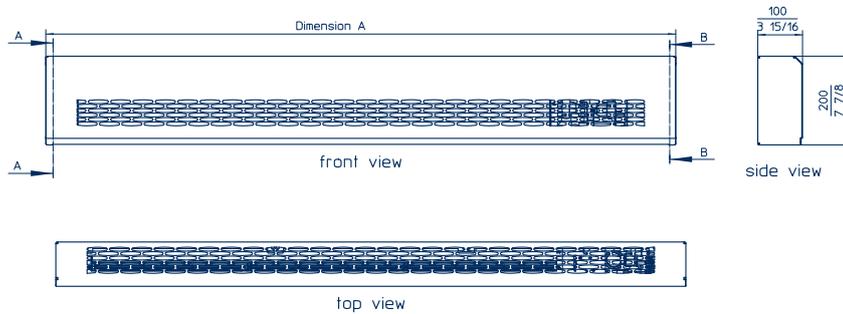
System	Air outlet	A	B	C	Cooling output (dry) ¹⁾	Cooling output (wet) ²⁾	Heat output ³⁾
		[in]	[in]	[in]	[BTU/h]	[BTU/h]	[BTU/h]
2-pipe	one-sided discharge	24.4	48.8	6.5	505-2326	1170-5676	2099-11159
	two-sided discharge	24.4	48.8	6.5	916-4231	2166-10253	3830-20116
4-pipe	one-sided discharge	24.4	48.8	6.5	425-1919	1046-4592	1607-5698
	two-sided discharge	24.4	48.8	6.5	788-3493	1953-8320	2982-10587

¹⁾ at CHW 56/66 °F, t_{L1} = 80 °F, 48% rel. humidity

²⁾ at CHW 45/55 °F, t_{L1} = 80 °F, 48% rel. humidity

³⁾ at LPHW 140/120 °F, t_{L1} = 68 °F

Baseboard HK

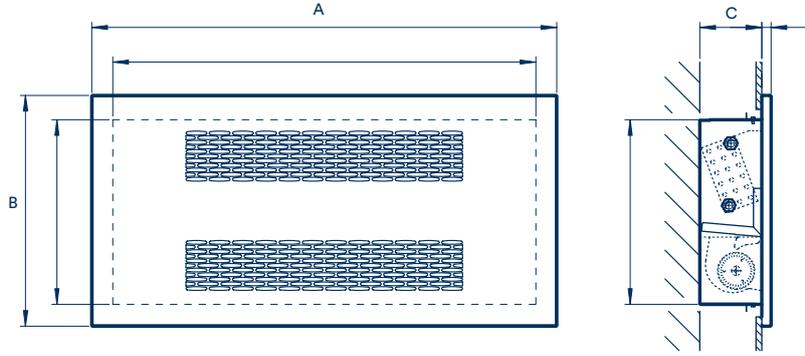


Size	A	B	C	System	Heat output ¹⁾	Cooling output ²⁾
	[in]	[in]	[in]		[BTU/h]	[BTU/h]
820	32.3			2-pipe	163 - 2496	145 - 1227
1040	40.9			2-pipe	244 - 3744	218 - 1841
1240	48.8			2-pipe	325 - 4993	291 - 2454
1450	57.1			2-pipe	403 - 6177	360 - 3037
1660	65.4			2-pipe	488 - 7488	436 - 3681
1960	77.2	3.9	7.9	2-pipe	569 - 8735	509 - 4295
2160	85.0			2-pipe	1221 - 17971	303 - 10476
2380	93.7			2-pipe	1374 - 20217	341 - 11785
2580	101.6			2-pipe	1526 - 22463	379 - 13095
2790	109.8			2-pipe	1671 - 24598	414 - 14339
3000	118.1			2-pipe	1831 - 26957	454 - 15714

¹⁾ at LPHW 140/120 °F, t_{L1} = 68 °F

²⁾ at CHW 45/55 °F, t_{L1} = 80 °F, 48% rel. humidity

Wall HK



Model size	System	A	B	C	Cooling output ¹⁾	Heat output ²⁾
		[in]	[in]	[in]	[BTU/h]	[BTU/h]
1	2-pipe	32.1	14.6	5.5	478 – 2065	2372 – 9918
	4-pipe	32.1	14.6	5.5	461 – 1932	2007 – 5642
2	2-pipe	43.3	14.6	5.5	809 – 3488	4014 – 16768
	4-pipe	43.3	14.6	5.5	782 – 3266	3392 – 9536
3	2-pipe	63.0	14.6	5.5	1287 – 5553	6386 – 26686
	4-pipe	63.0	14.6	5.5	1242 – 5198	5396 – 15174
4	2-pipe	74.8	14.6	5.5	1686 – 7273	8365 – 34952
	4-pipe	74.8	14.6	5.5	1628 – 6809	7068 – 19874

¹⁾ at CHW 45/55 °F, $t_{L1} = 80$ °F, 48% rel. humidity

²⁾ at LPHW 140/120 °F, $t_{L1} = 68$ °F

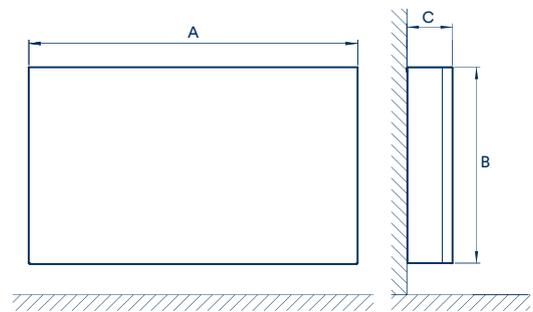
PowerKon LT

A	B	C	Heat output ¹⁾	Heat output ²⁾	Cooling output ³⁾
[in]	[in]	[in]	[BTU/h]	[BTU/h]	[BTU/h]
30.7	24.3	5.5	2406 - 4623	1211 - 2337	1825 - 3873
40.5	24.3	5.5	3378 - 7319	1706 - 3685	2610 - 5971
48.0	24.3	5.5	3975 - 9264	1996 - 4658	3139 - 7456

¹⁾ at LPHW 140/120 °F, $t_{L1} = 68$ °F

²⁾ at LPHW 120/100 °F, $t_{L1} = 68$ °F

³⁾ at CHW 45/55 °F, $t_{L1} = 81$ °F, 48% rel. humidity



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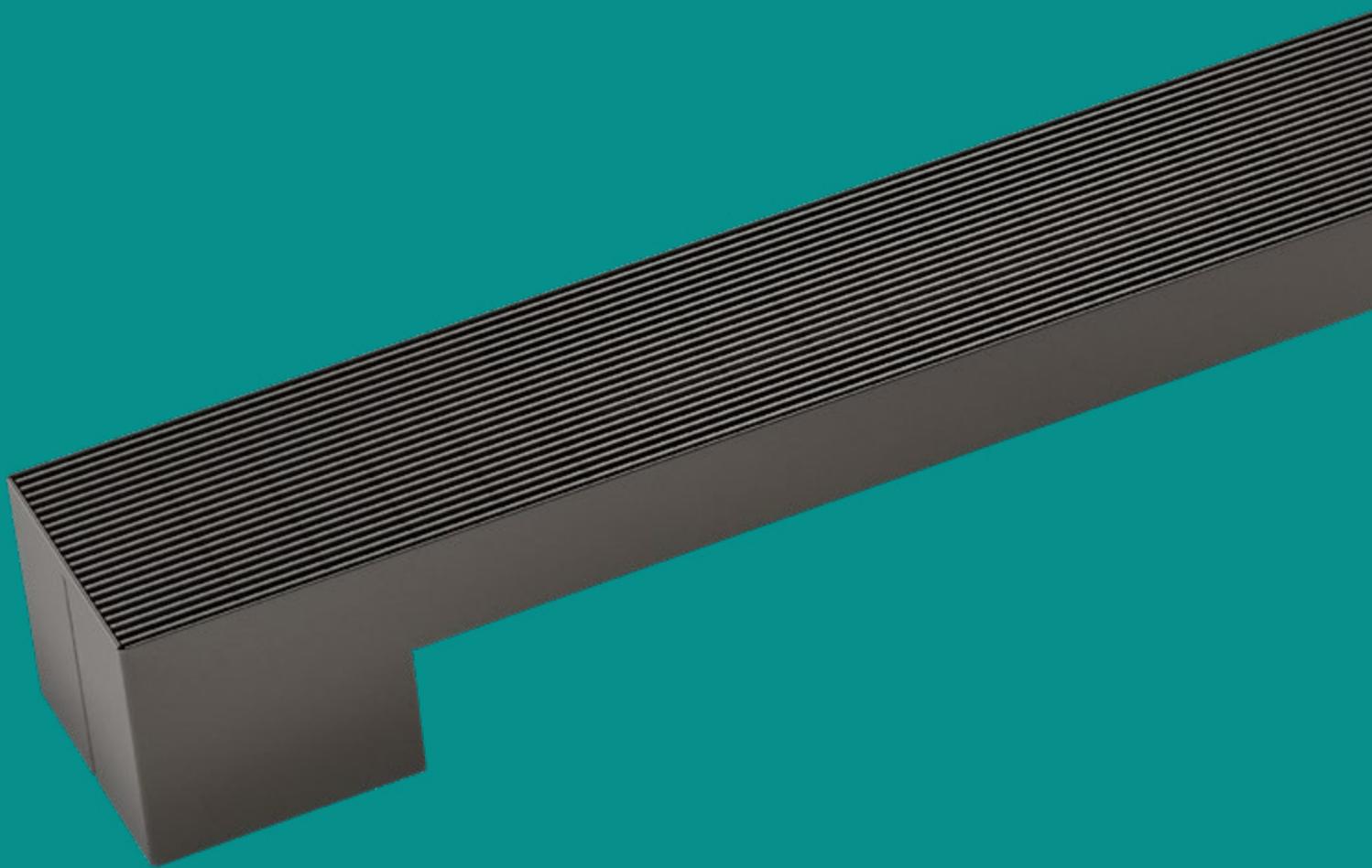
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Convectors

Our low-temperature convectors are durable and responsive. Find the right version for residential, institutional or commercial use, wall-mounted or as a free-standing heater.

- + Maximum flexibility thanks to a wide range of products with or without casing.
- + All convectors are suitable for low temperature operation.
- + PowerKon nano with ECM tangential fan for ultra-fast responsiveness with low noise emissions



Surprisingly versatile

You'll never compromise on quality when heating with convectors, whether in the form of architecturally made-to-measure convectors, discreet radiators or as free-standing design elements.

All Kampmann convectors are designed with high-quality heat carriers.

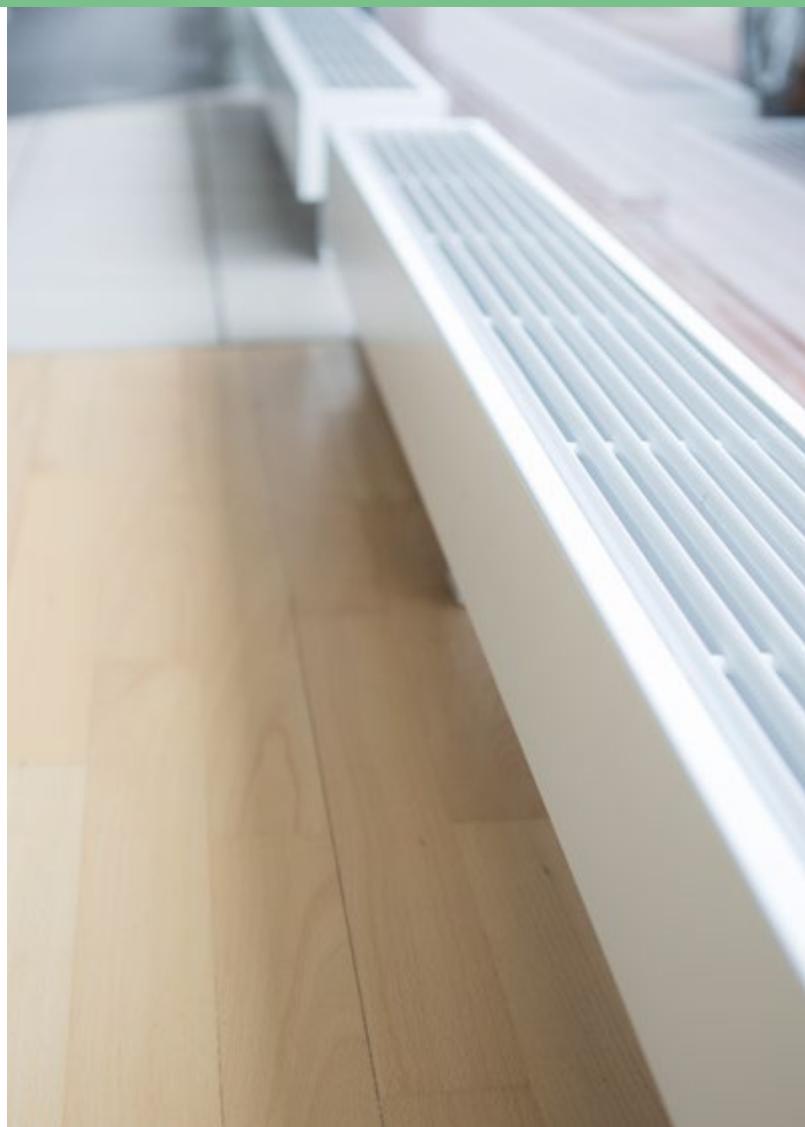
At the window

PowerKon + F

Admittedly, trench convectors are the go-to units under floor-to-ceiling windows or glazed façades. But this is not always possible, or perhaps you have a different design in mind.

Then PowerKon +F convectors are the solution for your project. Ultra-discreet and equally effective, thanks to their **high-quality copper-aluminium heat carriers**. And durable with **phosphated, powder coated sheet steel covers**.

But our be-all and end-all is finding the perfect solution for you.





Unobtrusive

PowerKon + W

If our products had a character of their own, then the PowerKon +W would be the selfless type. It fades into the background and really never wants to be noticed. At least not visually. However, its inner life is as multifaceted as its design is restrained. Our copper-aluminium heat carrier also **performs its service in absolute silence in this wall-mounted convector** .

But even if you take a closer look at its exterior, say during installation or maintenance, you learn to appreciate the details.

The one-piece casing, for example, can be fitted and dismantled without the need for a tool. Or its air discharge grille – either perforated or in the form of a linear grille. Take the time to get to know it.

Easy to install and maintenance-friendly

Let's ask people



We always have our ear to the market. We know from talking to tradespeople and designers that **sturdy metal casings** are of great importance to them and that a **simple maintenance concept** will keep installers and users happy for many years to come. Who would we be if we didn't take that to heart? You can rely on our convectors.

It's your choice

PowerKon nano

We have incorporated our entire **knowledge and expertise of trench technology into the PowerKon nano**. The **ECM tangential fan** provides optimum flow through the copper-aluminium heat exchanger. And yet its operating noise is scarcely audible, our trademark with our trench technology and fan coils. And this free-standing convector cannot fail to attract admiring glances.

Its high-quality casing can be designed in any RAL colour and the design roll-up grille is very low profile.

Our convectors at a glance

Wall-mounted convectors



PowerKon + W

- > convector optimised for use with low water temperatures
- > fast response due to low water content
- > low surface temperature

Free-standing convector



PowerKon + F

- > convector optimised for use with low water temperatures
- > fast response due to low water content
- > low surface temperature



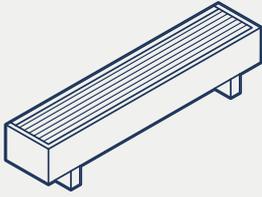
PowerKon nano

- > free-standing and versatile
- > usual quietness and high performance
- > ECM fan - efficient in terms of noise and energy



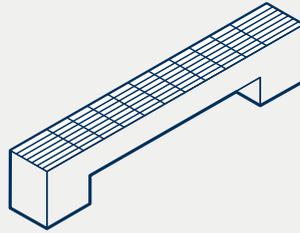
Fits every time

PowerKon + F



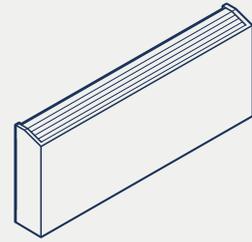
Height	3.1 5.1
Depth	5.1 7.1 9.1
Length ¹⁾	23.6 – 102.4

PowerKon nano



Height	6.3
Depth	6.3
Length	37.4 45.3 55.1 70.9 84.6

PowerKon + W

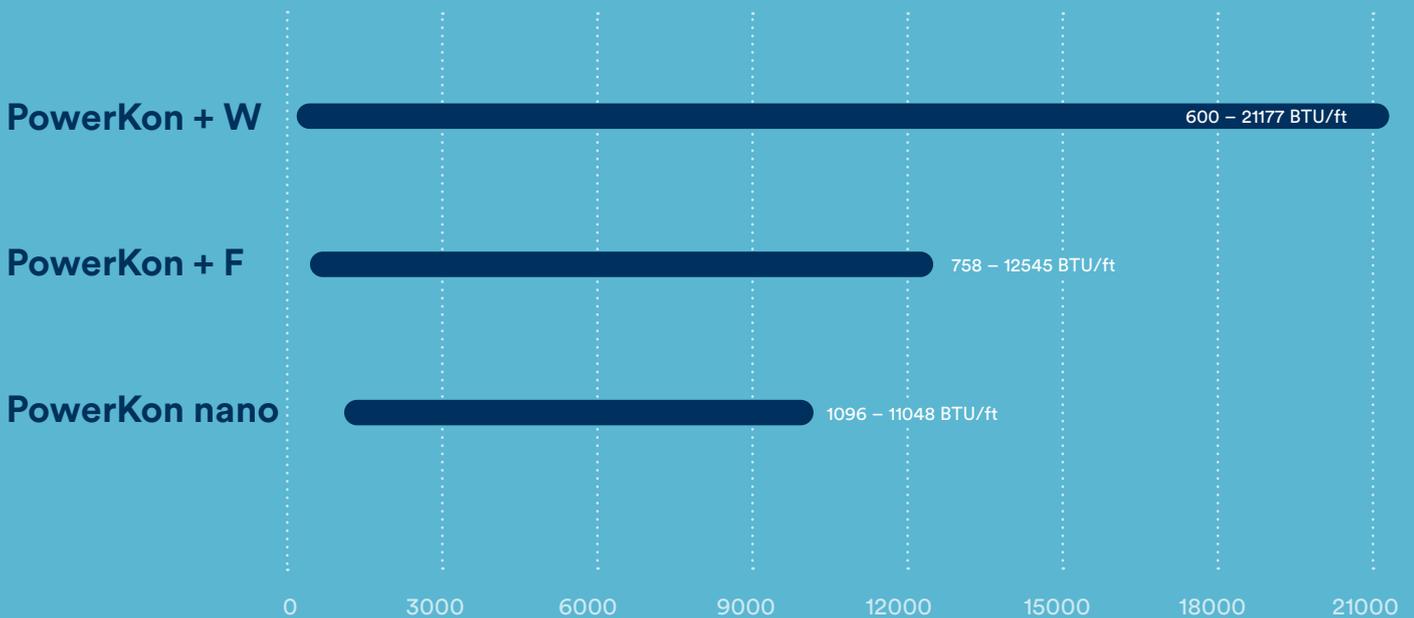


Height	9.8 15.7 21.7 27.6
Depth	2.8 4.7 6.7 8.7
Length ¹⁾	23.6 – 102.4

Dimensions in inch ¹⁾ 7.87 inch increments ²⁾ 3.93 inch increments

Custom casing and convector heights are possible for increased outputs – on request.

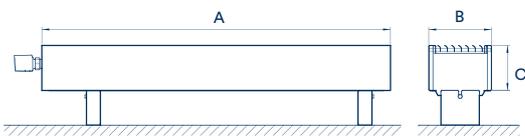
Performance data



● Heat output at LPHW 160/140 °F, t₁ = 68 °F

It's your choice

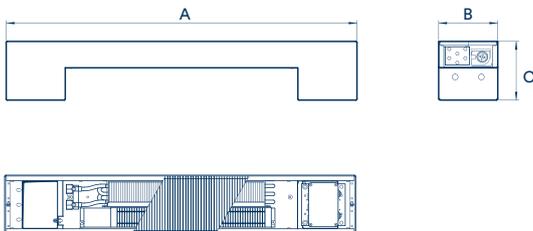
PowerKon + F



Height C	Depth B	Length A	Heat output ¹⁾
[in]	[in]	[in]	[BTU/ft]
3.1	5.1	23.6-102.4	758 – 4410
3.1	7.1	23.6-102.4	1058 – 6149
3.1	9.1	23.6-102.4	1591 – 9256
5.1	5.1	23.6-102.4	1068 – 6215
5.1	7.1	23.6-102.4	1575 – 9165
5.1	9.1	23.6-102.4	2156 – 12545

¹⁾ at LPHW 140/120 °F, t_{l1} = 68 °F, with fan-assisted convection

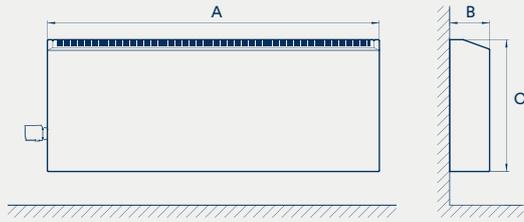
PowerKon nano



Width B	Height C	Length A	Heat output ¹⁾
[in]	[in]	[in]	[BTU/ft]
6.3	6.3	37.4	1096-2906
6.3	6.3	45.3	1695-4493
6.3	6.3	55.1	2205-5845
6.3	6.3	70.9	3314-8784
6.3	6.3	84.6	4167-11048

¹⁾ at LPHW 140/120 °F, t_{l1} = 68 °F, with fan-assisted convection

PowerKon + W



Height C	Depth B	Length A	Heat output ¹⁾
[in]	[in]	[in]	[BTU/ft]
9.8	2.8	23.6-102.4	600-3562
9.8	4.7	23.6-102.4	1207-7166
9.8	6.7	23.6-102.4	1807-10728
9.8	8.7	23.6-102.4	2426-13207
15.7	2.8	23.6-102.4	672-3989
15.7	4.7	23.6-102.4	1424-8454
15.7	6.7	23.6-102.4	2176-12920
15.7	8.7	23.6-102.4	3040-16549
21.7	2.8	23.6-102.4	738-4383
21.7	4.7	23.6-102.4	1643-9760
21.7	6.7	23.6-102.4	2568-15251
21.7	8.7	23.6-102.4	3486-18980
27.6	2.8	23.6-102.4	764-4539
27.6	4.7	23.6-102.4	1757-10433
27.6	6.7	23.6-102.4	2733-16228
27.6	8.7	23.6-102.4	3890-21177

¹⁾ at LPHW 140/120 °F, t_{L1} = 68 °F

Your digital product finder:

kampmann.ca > Products > Convectors

kampmann.us > Products > Convectors

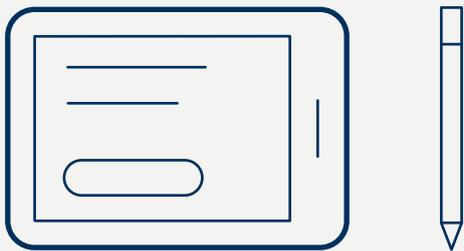
Calculate your product online.



We're always here to help!

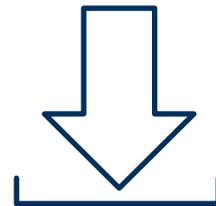
Wherever you are, we're there for you. We offer a range of tools to assist you during the planning process, from smart apps and calculation programs to BIM data and CAD drawings.

Design



We would be pleased to produce project-specific design drawings and wiring diagrams for your project to perfect and make our design easier.

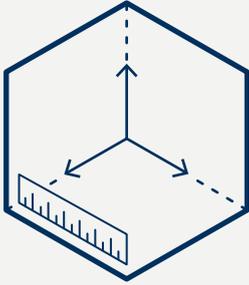
BIM data sets



Make the most of the BIM data sets that Kampmann provides for Katherm trench heaters and ensure that your planning runs as smoothly as possible.

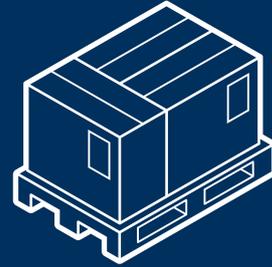
The sets contain unit dimensions, technical measurements for water and electrical connections, plus performance data.

Site measurements



To prevent inaccuracies, our technicians perform site measurements using 2D lasers – ensuring precise and efficient dimensioning.

Delivery



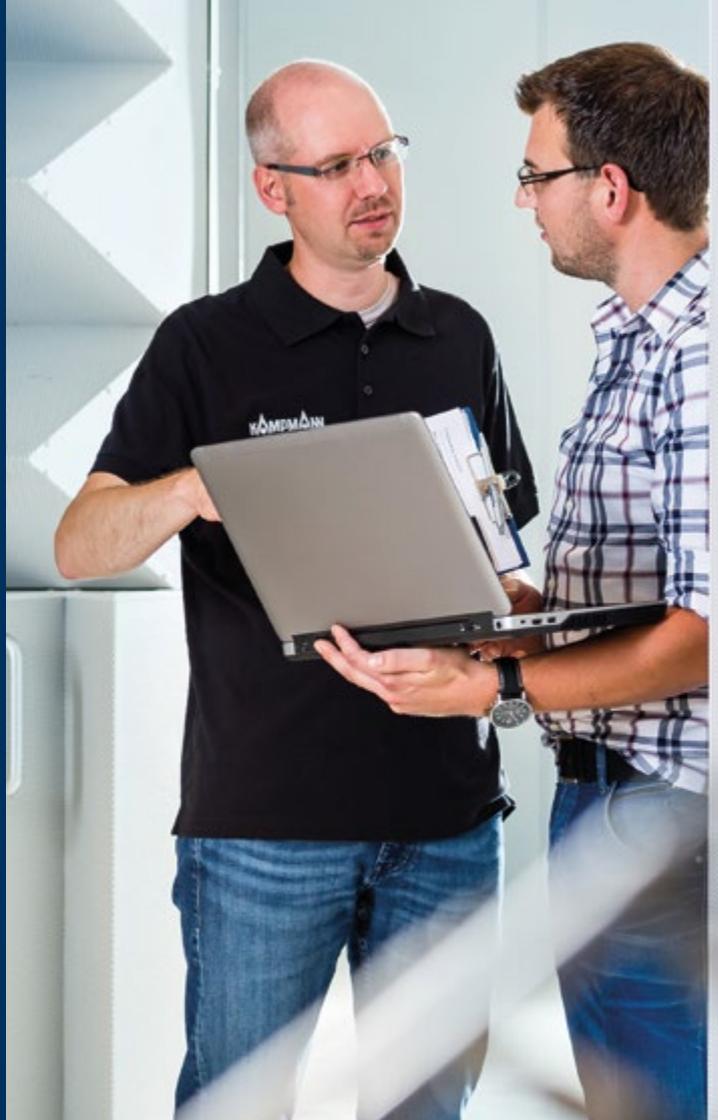
Kampmann products are delivered sorted on pallets to site. The products are packaged with position labels so that they can be allocated on site to the correct floors and installation locations.

Consultation



As well as providing comprehensive advice and design assistance for building services systems, we can also give you exactly the documentation you need for any project.

kampmann.ca/service
kampmann.us/service



The Kampmann Group: unique solutions expertise for the best air conditioning systems.

With over 1000 employees at 16 sites around the world, Kampmann is one of the major players in the construction and building services sector.

Kampmann offers solutions expertise and a unique broad-based product range.

Our systems for heating, cooling and ventilation are at the forefront of different market segments today.



1000
+

employees working for
you at the Kampmann
Group.

21,893

variants of our products in our
standard range alone.

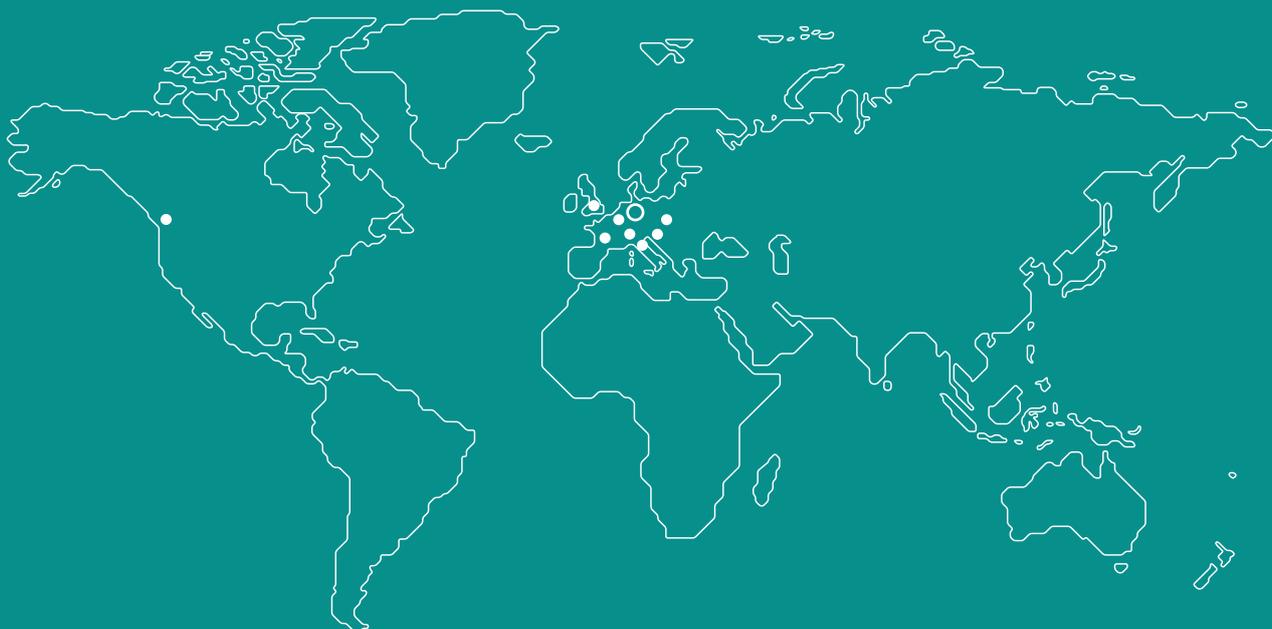


International sites



Headquarters

Kampmann GmbH & Co. KG
Lingen (Ems), Germany



- > Canada/USA
- > France

- > Italy
- > Netherlands

- > Austria
- > Poland

- > Switzerland
- > Great Britain

Research & Development Playground

The Kampmann Research and Development Centre (R&D) is a veritable playground for our physicists and engineers. And it also provides the necessary testing ground for our system-based new product and product development processes.

The unprecedented range of laboratories, test stands and premises within the R&D enables our employees to practise their academic expertise in elaborate measurements and simulations. They maintain the high quality standards that our Kampmann customers have come to expect. The Research and Development Centre has therefore provided us with a boost for our innovative prowess time and time again.





kampmann.ca/r-and-d



kampmann.us/r-and-d





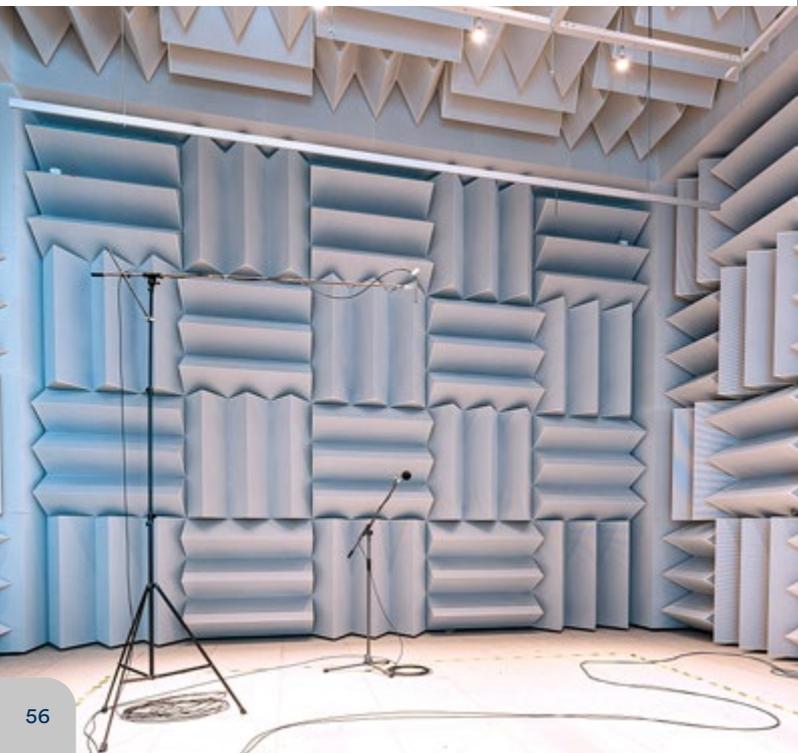
The Airflow Lab

For real simulation of the air conditioning of rooms: the walls, floor and ceiling can be heated and cooled independently of each other.

The System Rooms

The two system rooms reproduce a two-axis and a three-axis office.

Customer projects can be replicated and measured in them, or product demonstrations arranged.



The Acoustic Measurement Lab

Ssssh! 11.8 inch of concrete, 15.7 inch of stone and glass wool as well as 17.7 inch pyramid acoustic foam in the sound measurement laboratory guarantee absolute silence.



The Multi-purpose Lab

The heart of the multi-purpose laboratory is the test rig for the standard-compliant measurement of fan and resistance characteristic lines, as well as filters, baffles and ducts.

The Industrial Tower

The Industrial Tower is where we demonstrate the momentum of our units: depending on the setting, warm air reaches floor level with ease, and cold air is evenly distributed under the ceiling to then fall gently and draught-free.



The Reverberation Room

As impressive as it is to enter the anechoic sound measurement laboratory with its almost oppressive silence, entering the Reverberation Room is quite the opposite: sound waves are constantly reflected on the acoustically hard wall surfaces, none of which are parallel to their opposite wall.

Genau mein Klima

Our Sustainability Strategy

Taking responsibility and acting sustainably. That is our aim in all our business activities. While it is our core business is to ensure a good indoor climate with modern air conditioning units, we also see the need as a company to make our contribution to achieving climate targets, such as the 1.5 degree target set by the Paris Climate Agreement.

We do this through increasingly sustainable products and by operating our sites as ecologically as possible, for example by using climate-neutral gas and electricity.

As an Emsland-based family-owned company, we also feel strongly connected to our location and our local people. Here too, we take responsibility from a sense of conviction – along our supply chain, for our employees and the society in which we operate.

“Sustainability is more than just a tiresome legislative duty: Sustainability also means safeguarding the future of the company with satisfied and motivated employees, and with a future-centric and fair business strategy. But also by achieving climate targets.”

Hendrik Kampmann, Managing Director



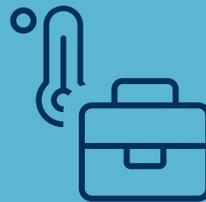
Four pillars of sustainability

As part of our sustainability strategy, we have addressed the economic, ecological and social factors of sustainability. In order to further highlight the outstanding role of our employees, we have further sub-divided the social issues. From the three central pillars of sustainability, we thus made Kampmann's four pillars of sustainability. In line with our core business, they are:



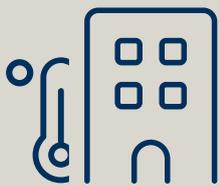
Ecoclimate

- + Business ecology
- + Product ecology
- + Sustainable self-image



Working climate

- + Motivated employees
- + New Work
- + Job security



Corporate Climate

- + Governmental Compliance
- + Risk/Opportunity Management
- + Supply Chain



Social Climate

- + Social commitment



Responsibility in the supply chain

Partnering with customers and suppliers is a key factor for our success. Binding guidelines and conduct that are in line with our values are therefore of particular importance.

For Kampmann, responsibility does not start with its own production sites. We therefore attach great importance to transparency and a high proportion of regional suppliers.

The carbon footprint of our products

Environmental Product Declarations (EPDs) provide information about the environmental impact of a product.

EPDs are standardised and verified so that they can be used as evidence in certification processes for sustainable buildings etc.

We are constantly working to expand our broad-based product range to include new EPDs. We currently offer them for our Katherm HK, Katherm NK and Katherm QK trench heaters and for all sizes of Venkon fan coils.

You can obtain material-based LCA data on request for all fan coil units.



 **EPD**®
THE INTERNATIONAL EPD® SYSTEM

And that's in our Environmental Product Declarations (EPDs)

Our audit does not end with the life cycle of a product. The ongoing use or recycling of products after their original use is also taken into account in our life cycle assessments: from cradle to cradle. This gives you an end-to-end picture of the cycle that our trench technology unit heaters, fan coils etc. go through.

Manufacturing phase



Supply of raw materials



Transport of raw materials



Production

Construction phase



Transport of products



Installation

Usage phase



Maintenance



Repair



Replacement of components



Energy usage

Disposal phase



Demolition/removal



Transport of waste

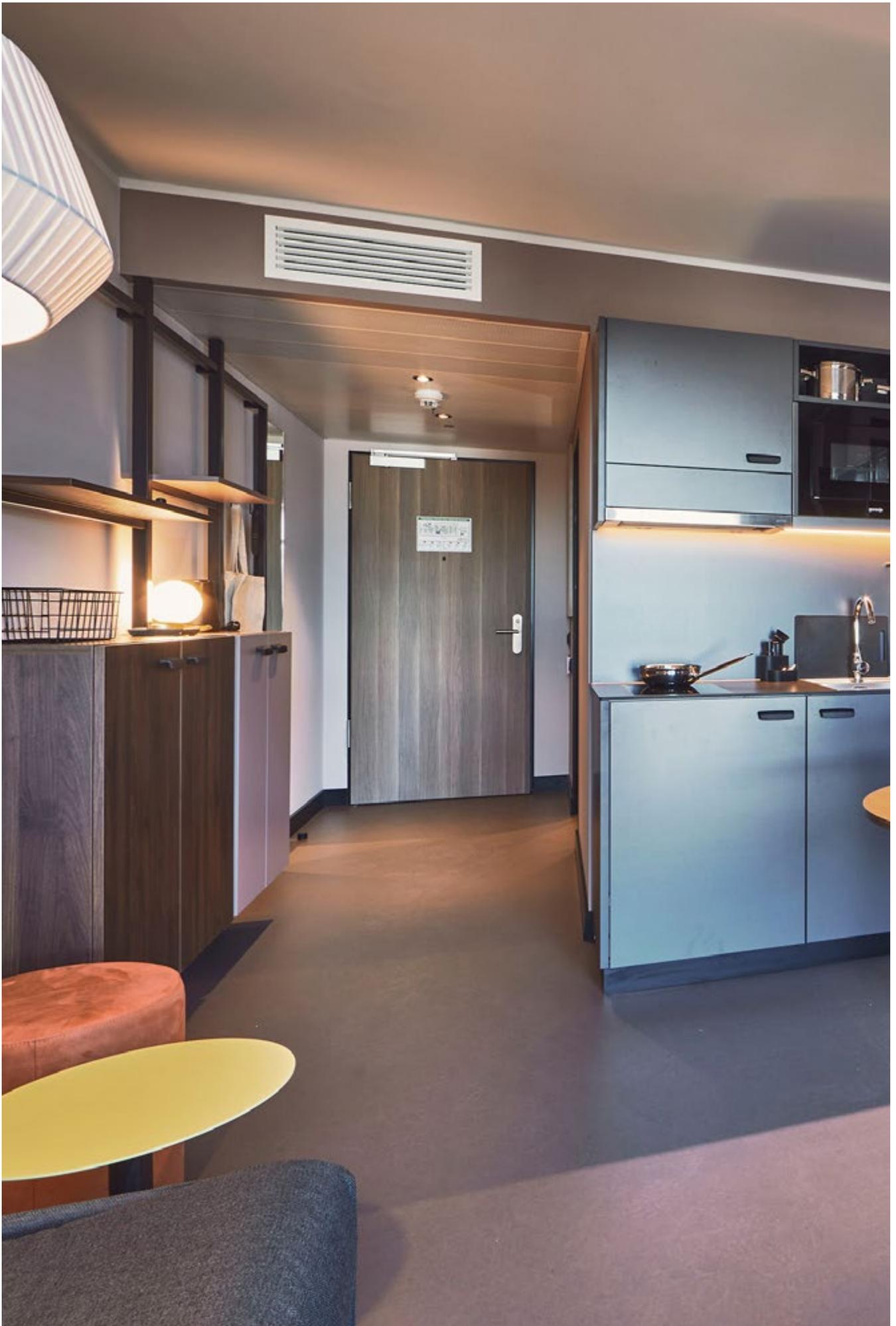


Waste treatment



Disposal/recycling







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