



X2
INSIDE

Therm X2.
The energy-saving
radiator.



Steel panel radiators

Technology



DIN EN 442



SUMMARY OF CONTENTS



Non-binding price recommendation without VAT.
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The security of a strong brand.

COMPETENCE COMES FROM KERMI.



MADE IN GERMANY

Water and warmth are our world.

Comfort and freshness. Kermi provides both with unrivalled expertise. And with the know-how from more than 40 years' experience. As a company of AFG Arbonia-Forster-Holding AG headquartered Lower Bavaria, we are among the leading European manufacturers in the heating technology and shower enclosure sector. With 1500 highly qualified associates, state-of-the-art technology and trend-setting design solutions. "High Quality. Made in Germany". For a thoroughly comfortable home.

We deliver quality of life.

At Kermi highest quality has absolute priority. Beginning with product design through the selection of material and a rigorous series of tests to demanding final inspection, Kermi's high standard of quality is realised in full. Far in excess of the standard, guaranteed by international seals of quality and certified by an uncompromising quality assurance system with certification in conformity with DIN EN ISO 9001:2000 and 14001:2004.



Kermi makes feeling comfortable visibly more aesthetic.

The high-quality standard is conspicuous in the quality of the design too. In symbiosis with the creativity of expert designers, styles that redefine heating design and showering comfort originate in the Kermi product development department. Design to the pulse of the times. Exceptional, individual and distinctive. It is not by chance that Kermi products have been distinguished with major awards for design over and over again.

New thinking for new demands.

Kermi designs are and have often been pioneering achievements. Numerous innovations that remain unrivalled to date attest to this. Ideas that project. Whether in the realm of advanced, environmentally friendly production or smart facilitation of installation, optimised operation or unmatched comfort – right up to the fully up-to-date, universally unique, revolutionary concept for saving energy efficiently during heat distribution.



You can find more information about the brand, as well as the Kermi firm and full details about Kermi shower stalls and the heating technology programme, at the Kermi website: www.kermi.com.

High-quality technical
progress in heating.

HIGH QUALITY. MADE IN GERMANY.

**MADE IN
GERMANY**

First-class quality.
Produced in Germany
for over 40 years



RAL seal as guaranty of
highest quality

DIN EN 442

Heat output in conformity
with the European EN 442
standard

CE

Kermi GmbH
Pankofen-Bahnhof 1
94447 Plattling
09
EN 442

Solid product quality in
conformity with EN 442



Uncompromising quality
assurance system in
conformity with
DIN EN ISO 9001:2008
Responsible environmental
management in conformity
with DIN EN ISO 14001:2004



At Kermi highest quality has first priority.

From product design through the selection of material and an extensive series of tests to demanding final inspection, Kermi's high standard of quality is realised conclusively. In addition to the CE conformity marking and the European DIN EN 442 standard, it is guaranteed by the RAL seal of quality and an uncompromising quality assurance system with certification in conformity with DIN EN ISO 9001:2008 and 14001:2004.



The RAL seal as guarantor of highest quality.

Through the RAL seal of quality Kermi radiators guarantee extensive quality features that exceed the standard. For example, precisely defined material quality. It is constantly monitored, as well as the entire production process and the standard heat output specified. Precise welds, leak testing far in excess of

the permissible operating pressure, high-quality priming and sparkling paint finishing are additional RAL features that ensure safety and a brilliant visual effect.

Therm X2.
The steel panel
radiator innovation
to triple you.

THERM X2. THE ENERGY-SAVING RADIATOR.

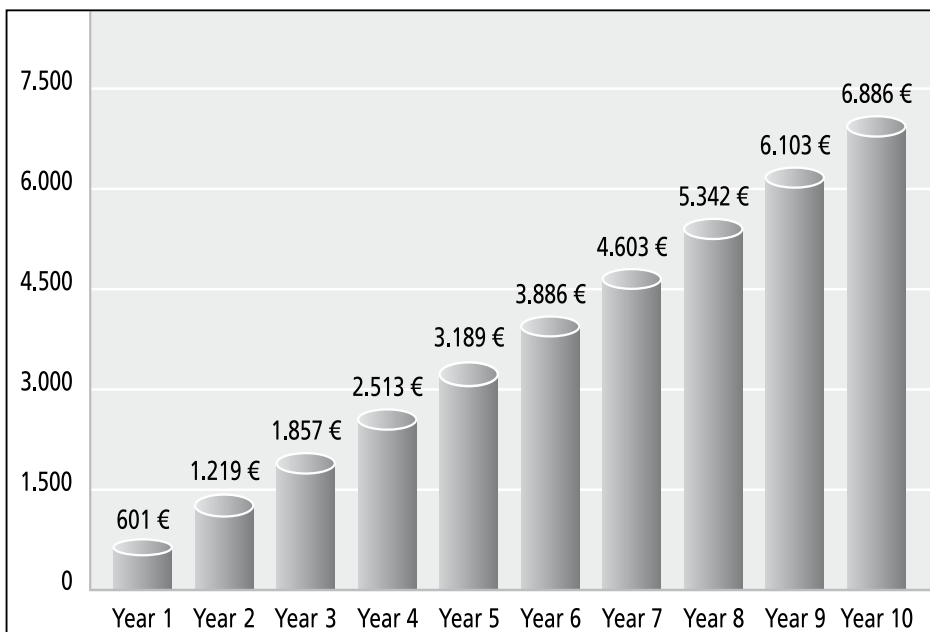


Save energy.

Your customers save on expensive heating energy and you save yourself from stiff pricing pressure and competition.

Unique X2 technology makes genuine energy savings during heat transfer possible for the first time ever – up to 11% compared to conventional steel panel radiator technology. As an effective extension and optimisation of the energy-efficient heat generator. A one-of-a kind chance for you to perfectly complete the energy-savings chain. With convincing arguments that every homeowner is receptive to. And that unlock for you outstanding opportunities to attract customers, to retain clients and to stand out from the competition.

An example that shows how much can be saved with X2 – projected over 10 years:



Sample basis of calculation: old building, heated effective area 190 m², heating oil price 95.50 EUR/100 litres, rate of price increase 3 %/year.





Save trouble.

Your customers save on expensive heating energy and you save yourself from needless customer complaints.

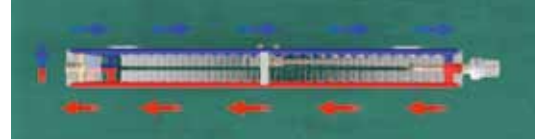
When there are low mass flows the radiator functions at part load over the better part of the heating period. In the course of this, the mean radiator surface temperature drops considerably – and with it the mood of your customers. Because a surface temperature of appreciably under 40° C is indeed enough to reach the designated room temperature but not the feeling of real comfort. You know the consequences only all-too well: needless time- and cost-intensive processing of customer complaints. Therm X2 finally puts an end to this. Because the serial flow-through necessarily produces a markedly higher surface temperature on the front plate and as a result a higher radiated portion of up to 100%. You finally have peace from angry customer complaints and your customers feel maximum thermal comfort at all times – even at partial load.

Save time.

Your customers save on expensive heating energy and you save valuable working hours.

In addition to dynamic reactivity and up to 25% shorter heating-up time, the appeal of the Therm X2 lies in the specific dynamics of its installation. Because every Therm X2 valve radiator is equipped ex factory with a built-in valve insert that is k_v -preset and synchronised to the respective heat output. This not only provides for particularly efficient energy use but also for a considerable saving of time at the construction site. Because with it you do not need to worry about hydraulic balance in most cases.

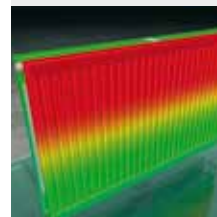
And the extension of advanced X2 technology to the compact versions brings additional advantages. For multiple connection possibilities and the most generally used connection centre lines.



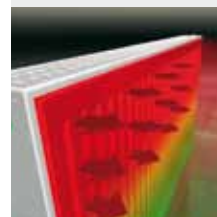
X2 technology functions according to the innovative, patented serial flow-through principle. In the process, the front panel is perfused first off the flow pipe. In controlled operation, the front panel's output is completely sufficient and the downstream panel takes on the radiation screening function. Only with the increasing need for output does it also contribute to the rapid heating of the room with high convection output.

The result: an energetic efficiency factor that is unrivalled in the steel panel radiator sector.

Moreover, factory- k_v -preset valves ensure virtually ideal hydraulic ratios in the heating system ex factory. And added to this is an approximately 20% savings in pumping drive current.



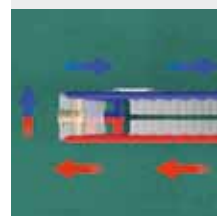
Up to 25% shorter radiator heating-up time. Forced flow-through produces a shorter heating cycle, shorter operating times and the valve closes more quickly.



Up to 100% higher radiated portion in the room. Induced by the front panel's higher mean surface temperature.



Lower radiation loss on the outer surfaces. Induced by the back panel's lower mean surface temperature.



Increase in energy efficiency and reduction in losses among other things due to greater ΔT between flow and return.

Therm X2
 ▼ Save energy ▲ Gain comfort

Therm X2 Plan-V
with lateral connection
or centre connection.

THERM X2 PLAN-V/VM

Energy-saving, comfortable future warmth
in supersmooth design.

- With unique X2 technology.
- Smooth, brilliantly coated front cover.
- Preset valve technology, fully integrated.
- Lateral connection right/left or with centre connection.
- Top cover and side screen standard.



Advanced valve technology. Fully integrated.

With every Therm X2 V/VM the valve trim is fully integrated. Using the proper valve for the heat output. Delivered as standard with connection below right – also with connection below left on request and without additional cost.

Optimally controlled from the start. This saves energy and installation time.

Kermi uses control technology with k_v inserts that are optimally preset ex factory to the respective heater outputs. As a result, good control capability is guaranteed across the entire control range. The radiator receives precisely only the mass flow necessary to cover the heating requirement. This leads, viewed over the entire process chain, to a savings of 6% energy and 20% pump drive current. In combination with the innovative X2 technology, amounting to a energy savings of up to 11%. In addition, installation is appreciably simplified and hydraulic balance on site is usually no longer required.

Unique energy saving technology with an appealing visual effect.

With its brilliantly smooth design, Therm X2 Plan-V brings not just feel-good warmth and more comfort to every room, it can be harmoniously integrated into virtually every room situation too.

The valve is integrated and set ex factory to the respective heat output.

This not only saves on extra energy but also on hydraulic balance in the vast majority of the objects on site.



For the version with a centre connection, radiator type and dimensions can still be freely determined even after pipe installation.

Therm X2
▼ Save energy ▲ Gain comfort

Therm X2 Plan-K
with lateral connection
right/left.

THERM X2 PLAN-K

- Supermooth, brilliantly coated front section.
- Top cover and side screens standard.
- Universally connection ready for single- and two-pipe systems.
- Installation ready, specially packed.
- Easy to install.



Therm X2 Plan compact radiators. Clean line, extremely efficient.

With its smooth front section, side screens and decorative cover, the X2 Compact Plan can be integrated with conviction – in every space allocation concept.

Modern heat in best form. Suitable for all heat sources and variable for single- and two-pipe systems. High in heat output, sensitive and dynamic in control due to low water content.

In the Type 12 version with only 66 mm depth, optimally adapted to condensing boiler technology requirements.

With optimal output at concurrently low water content.

Therm X2 Profil-V
with lateral connection
or centre connection.

THERM X2 PROFIL-V THERM X2 PROFIL-VM

Heater innovation.
With distinctive Kermit quality.

- With unique X2 technology.
- Distinctive, distinguished look.
- Integrated valve trim with preset k_v values.
- Lateral connection right/left or with centre connection.
- Top cover and side screen standard.

Advanced valve technology.

Fully integrated.

With every Therm X2 V/VM the valve trim is fully integrated. Using the proper valve for the heat output. Delivered as standard with connection below right – also with connection below left on request and without additional cost.

Optimally controlled from the start. This saves energy and installation time.

Kermit uses control technology with k_v inserts that are optimally preset ex factory to the respective heater outputs. As a result, good control capability is guaranteed across the entire control range. The radiator receives precisely only the mass flow necessary to cover the heating requirement. This leads, viewed over the entire process chain, to a savings of 6% energy and 20% pump drive current. In combination with the innovative X2 technology, amounting to a energy savings of up to 11%. In addition, installation is appreciably simplified and hydraulic balance on site is usually no longer required.



For the centre connection version, both the radiator type and the dimensions remain freely selectable, even after pipe installation.



Innovative technology of the future.

Distinctive look.

In addition to the uniquely innovative X2 technology for greater comfort and reduced energy consumption, the Therm X2 Profil valve radiator has all the attributes of trend-setting heat distribution in terms of quality and design. From the high-quality brilliantly coated wraparound panel to the fully integrated valve trim with preset k_v values ex factory.

Therm X2
▼ Save energy ▲ Gain comfort

Therm X2 Profil-K
with lateral connection
right/left.

THERM X2 PROFIL-K

Universal heating technology with a quality guaranty.

- Distinctive, distinguished look.
- Top cover and side screen standard-
- Universally connection ready for single- and two-pipe systems.
- Installation ready, specially packed.



The basic version
with Kermi's high
standard of quality.
Finished, complete,
installation-friendly,
specially packed.

Therm X2 Profil Compact radiator.
Universal heating technology with a quality guaranty.

Advanced heating with modern styling. Brilliantly coated with top and side cover. Manufactured with Kermi's high standard of quality. Distinctive in its technology. With high heat output – just right for low flow temperatures. Sensitive and dynamic in control due to low water content.

For all heat sources. Whether oil, gas or district heating system. Whether solar energy or traditional heating system. Also for condensing boiler technology requirements. In particular with the superflat, double-row Type 12 that provides high heat output with low water content and with a depth of only 64 mm that makes recesses unnecessary.

VERTEO PLAN/ VERTEO PROFIL



Slimline heating technology that saves space and energy.

Advanced heating with modern styling. The space-saving solution for harmonious room integration. With supersmooth front section or with a distinctive, distinguished look. Equipped with uniquely innovative X2 technology for greater comfort and reduced energy consumption.

- Modern heating in slimline panel format.
- With unique X2 technology.
 - Supersmooth, brilliantly coated front section or distinctive, distinguished look.
 - Side screen standard.
 - Universal connection capability via 6 connecting sleeves for all multi-layer versions.
 - Optional with Kermi valve shut-off block.
 - Installation ready, specially packed.

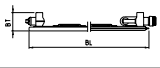

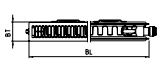



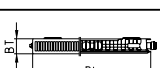
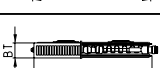
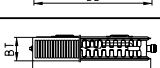
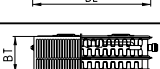

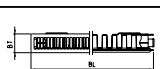



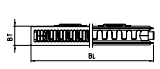




Versatile and universal for customised heating requirements. With heating output from 650 to 3100 watts. In four different heights and four lengths. For all heat sources. Whether oil, gas or district heating system. Whether solar energy, heat pump or traditional heating system. Delivered complete with accessories.

Brilliantly coated with high-quality, environmentally friendly double-layer paint finish treatment. With side cover.

Installation ready, specially packed. Quick and easy to install. With multiple top and bottom connection options.

PLAN RADIATORS TECHNICAL DATA

Item Code Designation		RAL General Drawing Reg. No.	Austrian Standard Reg. No.	Heights (H) mm	Lengths (L) mm	Depths (D) mm	
Therm X2 Plan-V							
Type 10	single row without convector without panel		0124	98 367	305 - 905	405 - 3005	63
Type 11	single row one convector with panel		0125	98 368	305 - 905	405 - 3005	63
Type 12	double row one convector with panel with serial flow-through		0126	98 369	305 - 905	405 - 3005	66
Type 22	double row two convectors with panel with serial flow-through		0128	98 371	305 - 905	405 - 3005	102
Type 33	triple row three convectors with panel with serial flow-through		0129	98 372	305 - 905	405 - 3005	157
Therm X2 Plan-VM							
Type 10	single row without convector without panel		0124	98 367	305 - 905	405 - 2605	63
Type 11	single row one convector with panel		0125	98 368	305 - 905	405 - 2605	63
Type 12	double row one convector with panel with serial flow-through		0126	98 369	305 - 905	405 - 2605	66
Type 22	double row two convectors with panel with serial flow-through		0128	98 371	305 - 905	405 - 2605	102
Type 33	triple row three convectors with panel with serial flow-through		0129	98 372	305 - 905	405 - 2605	157
Therm X2 Plan-K							
Type 10	single row without convector without panel		0124	98 367	305 - 905	405 - 3005	63
Type 11	single row one convector with panel		0125	98 368	305 - 905	405 - 3005	63
Type 12	double row one convector with panel with serial flow-through		0126	98 369	305 - 905	405 - 3005	66
Type 22	double row two convectors with panel with serial flow-through		0128	98 371	305 - 905	405 - 3005	102
Type 33	triple row three convectors with panel with serial flow-through		0129	98 372	305 - 905	405 - 3005	157
Therm X2 Plan-K connection centre line 500 / 900 mm							
Type 12	double row one convector with panel with serial flow-through		0126	98 369	559, 959	405 - 3005	66
Type 22	double row two convectors with panel with serial flow-through		0128	98 371	559, 959	405 - 3005	102
Type 33	triple row three convectors with panel with serial flow-through		0129	98 372	559, 959	405 - 3005	157

Therm X2 Plan valve radiators

Connections

2 x G 3/4" external thread for compression fitting bottom right (on special order bottom left – at no additional cost), for single pipe: Use bypass fitting. 3 x G 1/2" internal thread sideward.

For VM version

2 x G 3/4" external thread for compression fitting bottom centred, flow always on the left, independent of the position of the valve, standard = valve on the right (valve on the left available at no additional cost), 4 x G 1/2" internal thread sideward.

Operating conditions

Max. operating temperature 110° C, max. operating pressure 10 bar (test pressure 13 bar)

Scope of delivery

Type 10: with preset valve, as well as screwed-in blanking and air vent plug;

Type 11 - 33: with preset valve, top cover, side screens, as well as screwed-in blanking and air vent plugs. Fixing set with built-into-wall bracket fixture enclosed for all types.

Fixing

4 cover plates at the rear of the radiator (from L 1800, 6 pieces), built-into-wall brackets, separator and dehinging safety device are delivered as standard.

Paint finish

Kermi white (RAL 9016). Customised colouring also possible with the Kermi colour concept.

Therm X2 Plan compact radiators

Connection centre line

height - 59 mm

Connections

4 x G 1/2" internal thread

Operating conditions

Max. operating temperature 110° C, max. operating pressure 10 bar (test pressure 13 bar)

Scope of delivery

Type 10: fixing set with air vent plug and built-into-wall brackets enclosed, as well as blanking plug screwed in.

Type 11 - 33: with cover and side screens, fixing set with air vent plug and built-into-wall brackets enclosed, as well as blanking plugs screwed-in.

Type 12 - 33: with Therm X2 separation plugs

Fixing 4

cover plates at the rear of the radiator (from L 1800, 6 pieces), built-into-wall brackets, separator and dehinging safety device are delivered as standard.

Paint finish

Kermi white (RAL 9016). Customised colouring also possible with the Kermi colour concept.

All Kermi steel panel radiators connection threads conform with the DIN V 3838 standard.

PROFIL RADIATOR TECHNICAL DATA

Item Code Designation	RAL General Drawing Reg. No.	Austrian Standard Reg. No.	Heights (H) mm	Lengths (L) mm	Depths (D) mm	
Therm X2 Profil-V						
Type 10 single row without convector without panel		0112	98 361	300 - 900	400 - 3000	61
Type 11 single row one convector with panel		0113	98 362	300 - 900	400 - 3000	61
Type 12 double row one convector with panel with serial flow-through		0114	98 363	300 - 900	400 - 3000	64
Type 22 double row two convectors with panel with serial flow-through		0116	98 365	300 - 900	400 - 3000	100
Type 33 triple row three convectors with panel with serial flow-through		0117	98 366	300 - 900	400 - 3000	155
Therm X2 Profil-VM						
Type 10 single row without convector without panel		0112	98 361	300 - 900	400 - 2600	61
Type 11 single row one convector with panel		0113	98 362	300 - 900	400 - 2600	61
Type 12 double row one convector with panel with serial flow-through		0114	98 363	300 - 900	400 - 2600	64
Type 22 double row two convectors with panel with serial flow-through		0116	98 365	300 - 900	400 - 2600	100
Type 33 triple row three convectors with panel with serial flow-through		0117	98 366	300 - 900	400 - 2600	155
Therm X2 Profil-K						
Type 10 single row without convector without panel		0112	98 361	300 - 900	400 - 3000	61
Type 11 single row one convector with panel		0113	98 362	300 - 900	400 - 3000	61
Type 12 double row one convector with panel with serial flow-through		0114	98 363	300 - 900	400 - 3000	64
Type 22 double row two convectors with panel with serial flow-through		0116	98 365	300 - 900	400 - 3000	100
Type 33 triple row three convectors with panel with serial flow-through		0117	98 366	300 - 900	400 - 3000	155
Therm X2 Profil-K connection centre line 500 / 900 mm						
Type 12 double row one convector with panel with serial flow-through		0114	98 363	554, 954	400 - 3000	64
Type 22 double row two convectors with panel with serial flow-through		0116	98 365	554, 954	400 - 3000	100
Type 33 triple row three convectors with panel with serial flow-through		0117	98 366	554, 954	400 - 3000	155

Therm X2 Profil valve radiators

Connections

2 x G 3/4" external thread for compression fitting bottom right (on special order bottom left – at no additional cost), for single pipe: Use bypass fitting. 3 x G 1/2" internal thread sideward.

For VM version

2 x G 3/4" external thread for compression fitting bottom centred, flow always on the left, independent of the position of the valve, standard = valve on the right (valve on the left available at no additional cost), 4 x G 1/2" internal thread sideward.

Operating conditions

Max. operating temperature 110° C, max. operating pressure 10 bar (test pressure 13 bar)

Scope of delivery

Type 10: with preset valve, as well as screwed-in blanking and air vent plug;

Type 11 - 33: with preset valve, top cover, side screens, as well as screwed-in blanking and air vent plugs. Fixing set with built-into-wall bracket fixture enclosed for all types.

Fixing

4 cover plates at the rear of the radiator (from L 1800, 6 pieces), built-into-wall brackets, separator and dehinging safety device are delivered as standard.

Paint finish

Kermi white (RAL 9016). Customised colouring also possible with the Kermi colour concept.

Therm X2 Profil compact radiators

Connection centre line

height - 54 mm

Connections

4 x G 1/2" internal thread

Operating conditions

Max. operating temperature 110° C, max. operating pressure 10 bar (test pressure 13 bar)

Scope of delivery

Type 10: fixing set with air vent plug and built-into-wall brackets enclosed, as well as blanking plug screwed in.

Type 11 - 33: with top cover and side screens, fixing set with air vent plug and built-into-wall brackets enclosed, as well as blanking plugs screwed-in.

Type 12 - 33: with Therm X2 separation plugs

Fixing

4 cover plates at the rear of the radiator (from L 1800, 6 pieces), built-into-wall brackets, separator and dehinging safety device are delivered as standard.

Paint finish

Kermi white (RAL 9016). Customised colouring also possible with the Kermi colour concept.



$$\Phi = \Phi_{sl} \left(\frac{\Delta T}{\Delta T_n} \right)^n$$

Φ = heat output to be determined

Φ_{sl} = catalogue heat output


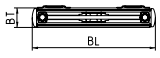

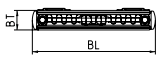

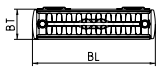
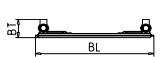

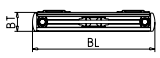

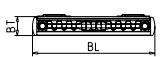

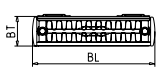
ΔT_n = standard temperature rise

ΔT = temperature rise at operating conditions which the conversion is based on

n = radiator exponent

DIN EN 442

VERTEO RADIATOR TECHNICAL DATA

Item Code Designation		RAL General Drawing Reg. No.	Heights (H) mm	Lengths (L) mm	Depths (D) mm	
Verteo Plan						
Type 20 	double row without convector with panel with serial flow-through		0907	1600 - 2200	400 - 700	66
Type 21 	double row one convector with panel with serial flow-through		0908	1600 - 2200	400 - 700	66
Type 22 	double row two convectors with panel with serial flow-through		0909	1600 - 2200	400 - 700	102
Verteo Profil						
Type 10	single row		0903	1600 - 2200	400 - 700	61
Type 20 	double row without convector with panel with serial flow-through		0904	1600 - 2200	400 - 700	64
Type 21 	double row one convector with panel with serial flow-through		0905	1600 - 2200	400 - 700	64
Type 22 	double row two convectors with panel with serial flow-through		0906	1600 - 2200	400 - 700	100

Verteo Plan / Verteo Profil

Connections

4 x 1/2" internal thread bottom (Type 20/21/22)
2 x 1/2" internal thread bottom (Type 10)
2 x 1/2" internal thread top, for all multi-layer types
connection from bottom and top possible.
50 mm centre connection makes the installation of a valve shut-off block possible.

Operating conditions

Max. operating temperature 110° C, max.
operating pressure 10 bar (test pressure 13.0 bar)

Scope of delivery

Incl. cover plates, primed and powder coated. Side covers. Installation equipment (wall bracket, screws, dowel, dehinging safety device, sound protection clip, blanking and air vent plugs) included at no additional cost.

Fixing

cover plate support with 4 cover plates. Quick and easy installation with wall brackets included as standard in the scope of delivery. Orientation in horizontal and vertical direction possible.

Paint finish

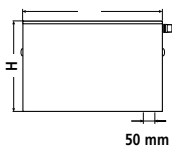
Kermi white (RAL 9016).
Customised colouring also possible with the Kermi colour concept.



$$\Phi = \Phi_{sl} \left(\frac{\Delta T}{\Delta T_n} \right)^n$$

- Φ = heat output to be determined
- Φ_{sl} = catalogue heat output
- ΔT_n = standard temperature rise
- ΔT = temperature rise at operating conditions which the conversion is based on
- n = radiator exponent

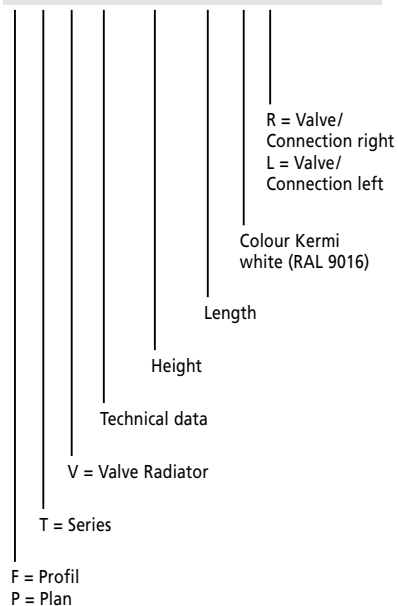




THERM X2 PLAN-V

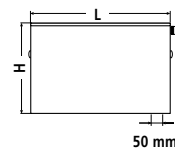
New Item Number

P T V 22 060 100 1 R 1 K

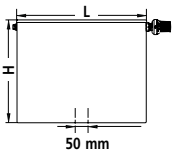


Sample Order	Type 10					Type 11				
Type 10 605 x 705 mm = Item No. PTV10060070...										
Type 11 505 x 1205 mm = Item No. PTV11050120...										
	single row Depth 63 mm, Item No. PTV10...					single row with convector Depth 63 mm, Item No. PTV11...				
Height mm	305	405	505	605	905	305	405	505	605	905
Radiator exponent	1,2923	1,2932	1,294	1,2949	1,2894	1,2766	1,2785	1,28050	1,2824	1,2871
watts/m 75/65/20° C	288	369	447	524	747	487	619	749	878	1265
Length mm	heat outputs in watts / room temperature 20° C									
405 watts 75/65° C	117	149	181	212	303	197	251	303	356	512
505 watts 75/65° C	145	186	226	265	377	246	313	378	443	639
605 watts 75/65° C	174	223	270	317	452	295	375	453	531	765
705 watts 75/65° C	203	260	315	369	527	343	436	528	619	892
805 watts 75/65° C	232	297	360	422	601	392	498	603	707	1018
905 watts 75/65° C	261	334	405	474	676	441	560	678	795	1145
1005 watts 75/65° C	289	371	449	527	751	489	622	753	882	1271
1105 watts 75/65° C	318	408	494	579	825	538	684	828	970	1398
1205 watts 75/65° C	347	445	539	631	900	587	746	903	1058	1524
1305 watts 75/65° C	376	482	583	684	975	636	808	978	1146	1651
1405 watts 75/65° C	405	518	628	736	1050	684	870	1052	1234	1777
1605 watts 75/65° C	462	592	717	841	1199	782	994	1202	1409	2030
1805 watts 75/65° C	520	666	807	946	1348	879	1117	1352	1585	2283
2005 watts 75/65° C	577	740	896	1051	1498	977	1241	1502	1761	2537
2305 watts 75/65° C	664	851	1030	1208	1722	1123	1427	1727	2024	2916
2605 watts 75/65° C	750	961	1165	1365	1946	1269	1613	1951	2287	3296
3005 watts 75/65° C	866	1109	1343	1575	2245	1464	1860	2251	2639	3802





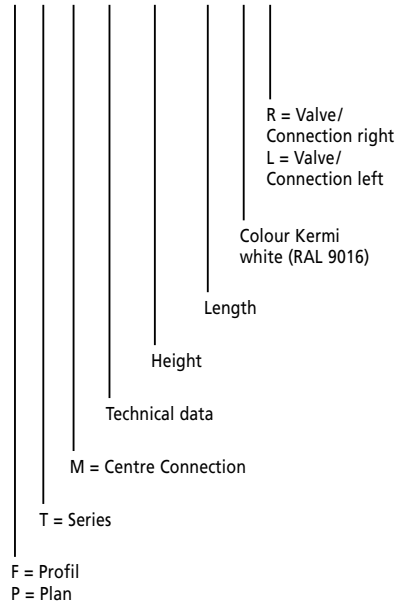
Type 12					Type 22					Type 33					Sample Order	
															Type 12 505 x 1205 mm = Item No. PTV12050120... Type 22 305 x 905 mm = Item No. PTV22030090... Type 33 605 x 605 mm = Item No. PTV33060060...	
double row with convector Depth 66 mm, Item No. PTV12...					double row with two convectors Depth 102 mm, Item No. PTV22...					triple row with with three convectors Depth 157 mm, Item No. PTV33...						
305	405	505	605	905	305	405	505	605	905	305	405	505	605	905	Height mm	
1,3125	1,3197	1,3268	1,334	1,3383	1,30610	1,31040	1,3146	1,3189	1,333	1,2863	1,2944	1,30260	1,31070	1,3347	Radiator exponent	
657	805	954	1106	1599	902	1125	1339	1549	2164	1299	1602	1901	2201	3140	watts/m 75/65/20° C	
heat outputs in watts / room temperature 20° C														Length mm		
266	326	386	448	648	365	456	542	627	876	526	649	770	891	1272	405	watts 75/65° C
332	407	482	559	808	456	568	676	782	1093	656	809	960	1112	1586	505	watts 75/65° C
398	487	577	669	967	546	681	810	937	1309	786	969	1150	1332	1900	605	watts 75/65° C
463	568	673	780	1127	636	793	944	1092	1526	916	1129	1340	1552	2214	705	watts 75/65° C
529	648	768	890	1287	726	906	1078	1247	1742	1046	1290	1530	1772	2528	805	watts 75/65° C
595	729	863	1001	1447	816	1018	1212	1402	1959	1176	1450	1721	1992	2842	905	watts 75/65° C
660	809	959	1112	1607	907	1131	1346	1557	2175	1306	1610	1911	2212	3156	1005	watts 75/65° C
726	890	1054	1222	1767	997	1243	1480	1712	2391	1436	1770	2101	2432	3470	1105	watts 75/65° C
792	970	1150	1333	1927	1087	1356	1614	1867	2608	1565	1931	2291	2652	3784	1205	watts 75/65° C
857	1051	1245	1443	2087	1177	1468	1748	2022	2824	1695	2091	2481	2873	4098	1305	watts 75/65° C
923	1131	1340	1554	2247	1267	1581	1881	2177	3041	1825	2251	2671	3093	4412	1405	watts 75/65° C
1055	1292	1531	1775	2567	1448	1806	2149	2486	3473	2085	2571	3051	3533	5040	1605	watts 75/65° C
1186	1453	1722	1996	2886	1628	2031	2417	2796	3906	2345	2892	3432	3973	5668	1805	watts 75/65° C
1317	1614	1913	2218	3206	1809	2256	2685	3106	4339	2605	3212	3812	4413	6296	2005	watts 75/65° C
1515	1856	2199	2550	3686	2079	2593	3087	3571	4988	2994	3693	4382	5074	7238	2305	watts 75/65° C
1712	2097	2485	2881	4166	2350	2931	3488	4035	5638	3384	4174	4952	5734	8180	2605	watts 75/65° C
1974	2419	2867	3324	4805	2711	3381	4024	4655	6503	3904	4814	5713	6615	9437	3005	watts 75/65° C



THERM X2 PLAN-VM

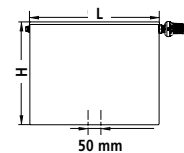
New Item Number

P T M 22 060 100 1 R 1 K

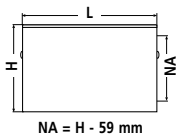


Sample Order	Type 10					Type 11				
Type 10 605 x 705 mm = Item No. PTM10060070...										
Type 11 505 x 1205 mm = Item No. PTM11050120...	single row Depth 63 mm, Item No. PTM10...					single row with convector Depth 63 mm, Item No. PTM11...				
Height mm	305	405	505	605	905	305	405	505	605	905
Radiator exponent	1,2923	1,2932	1,294	1,2949	1,2894	1,2766	1,2785	1,28050	1,2824	1,2871
watts/m 75/65/20° C	288	369	447	524	747	487	619	749	878	1265
Length mm	heat outputs in watts / room temperature 20° C									
405 watts 75/65° C	117	149	181	212	303	197	251	303	356	512
505 watts 75/65° C	145	186	226	265	377	246	313	378	443	639
605 watts 75/65° C	174	223	270	317	452	295	375	453	531	765
705 watts 75/65° C	203	260	315	369	527	343	436	528	619	892
805 watts 75/65° C	232	297	360	422	601	392	498	603	707	1018
905 watts 75/65° C	261	334	405	474	676	441	560	678	795	1145
1005 watts 75/65° C	289	371	449	527	751	489	622	753	882	1271
1105 watts 75/65° C	318	408	494	579	825	538	684	828	970	1398
1205 watts 75/65° C	347	445	539	631	900	587	746	903	1058	1524
1305 watts 75/65° C	376	482	583	684	975	636	808	978	1146	1651
1405 watts 75/65° C	405	518	628	736	1050	684	870	1052	1234	1777
1605 watts 75/65° C	462	592	717	841	1199	782	994	1202	1409	2030
1805 watts 75/65° C	520	666	807	946	1348	879	1117	1352	1585	2283
2005 watts 75/65° C	577	740	896	1051	1498	977	1241	1502	1761	2537
2305 watts 75/65° C	664	851	1030	1208		1123	1427	1727	2024	
2605 watts 75/65° C	750	961	1165	1365		1269	1613	1951	2287	
3005 watts 75/65° C										



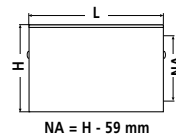


Type 12					Type 22					Type 33					Sample Order	
															Type 12 505 x 1205 mm = Item No. PTM12050120... Type 22 305 x 905 mm = Item No. PTM22030090... Type 33 605 x 605 mm = Item No. PTM33060060...	
double row with convector Depth 66 mm, Item No. PTM12...					double row with two convectors Depth 102 mm, Item No. PTM22...					triple row with three convectors Depth 157 mm, Item No. PTM33...						
305	405	505	605	905	305	405	505	605	905	305	405	505	605	905	Height mm	
1,3125	1,3197	1,3268	1,334	1,3383	1,30610	1,31040	1,3146	1,3189	1,333	1,2863	1,2944	1,30560	1,31070	1,3347	Radiator exponent	
657	805	954	1106	1599	902	1125	1339	1549	2164	1299	1602	1901	2201	3140	watts/m 75/65/20° C	
heat outputs in watts / room temperature 20° C														Length mm		
266	326	386	448	648	365	456	542	627	876	526	649	770	891	1272	405	watts 75/65° C
332	407	482	559	808	456	568	676	782	1093	656	809	960	1112	1586	505	watts 75/65° C
398	487	577	669	967	546	681	810	937	1309	786	969	1150	1332	1900	605	watts 75/65° C
463	568	673	780	1127	636	793	944	1092	1526	916	1129	1340	1552	2214	705	watts 75/65° C
529	648	768	890	1287	726	906	1078	1247	1742	1046	1290	1530	1772	2528	805	watts 75/65° C
595	729	863	1001	1447	816	1018	1212	1402	1959	1176	1450	1721	1992	2842	905	watts 75/65° C
660	809	959	1112	1607	907	1131	1346	1557	2175	1306	1610	1911	2212	3156	1005	watts 75/65° C
726	890	1054	1222	1767	997	1243	1480	1712	2391	1436	1770	2101	2432	3470	1105	watts 75/65° C
792	970	1150	1333	1927	1087	1356	1614	1867	2608	1565	1931	2291	2652	3784	1205	watts 75/65° C
857	1051	1245	1443	2087	1177	1468	1748	2022	2824	1695	2091	2481	2873	4098	1305	watts 75/65° C
923	1131	1340	1554	2247	1267	1581	1881	2177	3041	1825	2251	2671	3093	4412	1405	watts 75/65° C
1055	1292	1531	1775	2567	1448	1806	2149	2486	3473	2085	2571	3051	3533	5040	1605	watts 75/65° C
1186	1453	1722	1996	2886	1628	2031	2417	2796	3906	2345	2892	3432	3973	5668	1805	watts 75/65° C
1317	1614	1913	2218	3206	1809	2256	2685	3106	4339	2605	3212	3812	4413		2005	watts 75/65° C
1515	1856	2199	2550		2079	2593	3087	3571		2994	3693	4382	5074		2305	watts 75/65° C
1712	2097	2485	2881		2350	2931	3488	4035		3384	4174	4952	5734		2605	watts 75/65° C
															3005	watts 75/65° C



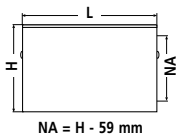
THERM X2 PLAN-K

Sample Order	Type 10					Type 11					Type 12				
Type 10 605 x 705 mm = Item No. PK0100607															
Type 11 605 x 1005 mm = Item No. PK0110610															
Type 12 505 x 1205 mm = Item No. PK0120512	305	405	505	605	905	305	405	505	605	905	305	405	505	605	905
Height mm	1,2923	1,2932	1,294	1,2949	1,2894	1,2766	1,2785	1,28050	1,2824	1,2871	1,3125	1,3197	1,3268	1,334	1,3383
Radiator exponent															
watts/m 75/65/20° C	288	369	447	524	747	487	619	749	878	1265	657	805	954	1106	1599
Length mm	heat outputs in watts / room temperature 20° C														
405 watts 75/65° C	117	149	181	212	303	197	251	303	356	512	266	326	386	448	648
505 watts 75/65° C	145	186	226	265	377	246	313	378	443	639	332	407	482	559	808
605 watts 75/65° C	174	223	270	317	452	295	375	453	531	765	398	487	577	669	967
705 watts 75/65° C	203	260	315	369	527	343	436	528	619	892	463	568	673	780	1127
805 watts 75/65° C	232	297	360	422	601	392	498	603	707	1018	529	648	768	890	1287
905 watts 75/65° C	261	334	405	474	676	441	560	678	795	1145	595	729	863	1001	1447
1005 watts 75/65° C	289	371	449	527	751	489	622	753	882	1271	660	809	959	1112	1607
1105 watts 75/65° C	318	408	494	579	825	538	684	828	970	1398	726	890	1054	1222	1767
1205 watts 75/65° C	347	445	539	631	900	587	746	903	1058	1524	792	970	1150	1333	1927
1305 watts 75/65° C	376	482	583	684	975	636	808	978	1146	1651	857	1051	1245	1443	2087
1405 watts 75/65° C	405	518	628	736	1050	684	870	1052	1234	1777	923	1131	1340	1554	2247
1605 watts 75/65° C	462	592	717	841	1199	782	994	1202	1409	2030	1055	1292	1531	1775	2567
1805 watts 75/65° C	520	666	807	946	1348	879	1117	1352	1585	2283	1186	1453	1722	1996	2886
2005 watts 75/65° C	577	740	896	1051	1498	977	1241	1502	1761	2537	1317	1614	1913	2218	3206
2305 watts 75/65° C	664	851	1030	1208	1722	1123	1427	1727	2024	2916	1515	1856	2199	2550	3686
2605 watts 75/65° C	750	961	1165	1365	1946	1269	1613	1951	2287	3296	1712	2097	2485	2881	4166
3005 watts 75/65° C	866	1109	1343	1575	2245	1464	1860	2251	2639	3802	1974	2419	2867	3324	4805



Type 22					Type 33					Sample Order	
										Type 22 605 x 805 mm = Item No. PK0220608 Type 33 405 x 1005 mm = Item No. PK0330410	
double row with two convectors Depth 102 mm, Item No. PK022...					triple row with three convectors Depth 157 mm, Item No. PK033...						
305	405	505	605	905	305	405	505	605	905	Height mm	
1,30610	1,31040	1,3146	1,3189	1,333	1,2863	1,2944	1,30260	1,31070	1,3347	Radiator exponent	
902	1125	1339	1549	2164	1299	1602	1901	2201	3140	watts/m 75/65/20° C	
heat outputs in watts / room temperature 20° C										Length mm	
365	456	542	627	876	526	649	770	891	1272	405	watts 75/65° C
456	568	676	782	1093	656	809	960	1112	1586	505	watts 75/65° C
546	681	810	937	1309	786	969	1150	1332	1900	605	watts 75/65° C
636	793	944	1092	1526	916	1129	1340	1552	2214	705	watts 75/65° C
726	906	1078	1247	1742	1046	1290	1530	1772	2528	805	watts 75/65° C
816	1018	1212	1402	1959	1176	1450	1721	1992	2842	905	watts 75/65° C
907	1131	1346	1557	2175	1306	1610	1911	2212	3156	1005	watts 75/65° C
997	1243	1480	1712	2391	1436	1770	2101	2432	3470	1105	watts 75/65° C
1087	1356	1614	1867	2608	1565	1931	2291	2652	3784	1205	watts 75/65° C
1177	1468	1748	2022	2824	1695	2091	2481	2873	4098	1305	watts 75/65° C
1267	1581	1881	2177	3041	1825	2251	2671	3093	4412	1405	watts 75/65° C
1448	1806	2149	2486	3473	2085	2571	3051	3533	5040	1605	watts 75/65° C
1628	2031	2417	2796	3906	2345	2892	3432	3973	5668	1805	watts 75/65° C
1809	2256	2685	3106	4339	2605	3212	3812	4413	6296	2005	watts 75/65° C
2079	2593	3087	3571	4988	2994	3693	4382	5074	7238	2305	watts 75/65° C
2350	2931	3488	4035	5638	3384	4174	4952	5734	8180	2605	watts 75/65° C
2711	3381	4024	4655	6503	3904	4814	5713	6615	9437	3005	watts 75/65° C





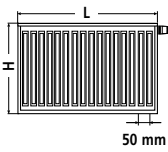
THERM X2 PLAN-K CONNECTION CENTRE LINE 500/900 MM

Sample Order	Type 12		Type 22		Type 33			
Type 12 559 x 1205 mm = Item No. PK012D512 Type 22 559 x 805 mm = Item No. PK022D508 Type 33 959 x 605 mm = Item No. PK033D906								
	double row with convector Depth 66 mm, Item No. PK012D...		double row with two convectors Depth 102 mm, Item No. PK022D...		triple row with three convectors Depth 157 mm, Item No. PK033D...			
Height mm	559	959	559	959	559	959	Selection guide for length	
Radiator exponent	1,33069	1,33907	1,31692	1,33554	1,30697	1,33902	Steel radiator 50 mm length/ Element / section	Steel radiator 60 mm length/ Element / section
watts/m 75/65/20° C	1035	1695	1453	2274	2062	3317		
Length mm	heat outputs in watts / room temperature 20° C							
405 watts 75/65° C	419	681	589	896	835	1275	8	-
505 watts 75/65° C	523	849	734	1118	1041	1590	10	(8)
605 watts 75/65° C	626	1018	879	1339	1248	1905	12	10
705 watts 75/65° C	730	1186	1024	1560	1454	2220	14	(12)
805 watts 75/65° C	833	1354	1170	1782	1660	2534	16	(14)
905 watts 75/65° C	937	1522	1315	2003	1866	2849	18	-
1005 watts 75/65° C	1040	1691	1460	2224	2072	3164	20	(16)
1105 watts 75/65° C	1144	1859	1606	2446	2279	3479	22	-
1205 watts 75/65° C	1247	2027	1751	2667	2485	3794	24	20
1305 watts 75/65° C	1351	2195	1896	2888	2691	4108	26	(22)
1405 watts 75/65° C	1454	2363	2042	3110	2897	4423	28	(24)
1605 watts 75/65° C	1661	2700	2332	3552	3310	5053	32	(26)
1805 watts 75/65° C	1868	3036	2623	3995	3722	5683	36	30
2005 watts 75/65° C	2075	3373	2913	4437	4135	6312	40	(34)
2305 watts 75/65° C	2386	3877	3349	5101	4753	7257	46	(38)
2605 watts 75/65° C	2696	4382	3785	5765	5372	8201	52	(44)
3005 watts 75/65° C	3110	5055	4367	6651	6197	9460	60	50

Connection centre line 350 mm (height 405 mm) see table Therm X2 Plan-K.



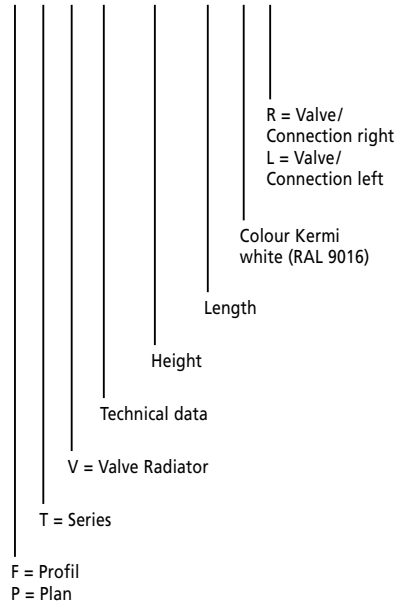
NOTES



THERM X2 PROFIL-V

New Item Number

F T V 22 060 100 1 R 1 K

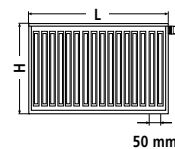


Sample Order	Type 10					Type 11				
Type 10 600 x 1000 mm = Item No. FTV10060100...										
Type 11 600 x 1000 mm = Item No. FTV11060100...										
	single row Depth 61 mm, Item No. FTV10...					single row with convector Depth 61 mm, Item No. FTV11...				
Height mm	300	400	500	600	900	300	400	500	600	900
Radiator exponent	1,2361	1,255	1,2739	1,2928	1,2935	1,2196	1,2371	1,2546	1,2721	1,30440
watts/m 75/65/20° C	335	425	514	602	872	551	697	840	979	1390
Length mm	heat outputs in watts / room temperature 20° C									
400 watts 75/65° C	134	170	206	241	349	220	279	336	392	556
500 watts 75/65° C	168	213	257	301	436	276	349	420	490	695
600 watts 75/65° C	201	255	308	361	523	331	418	504	587	834
700 watts 75/65° C	235	298	360	421	610	386	488	588	685	973
800 watts 75/65° C	268	340	411	482	698	441	558	672	783	1112
900 watts 75/65° C	302	383	463	542	785	496	627	756	881	1251
1000 watts 75/65° C	335	425	514	602	872	551	697	840	979	1390
1100 watts 75/65° C	369	468	565	662	959	606	767	924	1077	1529
1200 watts 75/65° C	402	510	617	722	1046	661	836	1008	1175	1668
1300 watts 75/65° C	436	553	668	783	1134	716	906	1092	1273	1807
1400 watts 75/65° C	469	595	720	843	1221	771	976	1176	1371	1946
1600 watts 75/65° C	536	680	822	963	1395	882	1115	1344	1567	2224
1800 watts 75/65° C	603	765	925	1084	1570	992	1255	1512	1762	2502
2000 watts 75/65° C	670	850	1028	1204	1744	1102	1394	1680	1958	2780
2300 watts 75/65° C	771	978	1182	1385	2006	1267	1603	1932	2252	3197
2600 watts 75/65° C	871	1105	1336	1565	2267	1433	1812	2184	2546	3614
3000 watts 75/65° C	1005	1275	1542	1806	2616	1653	2091	2520	2937	4170

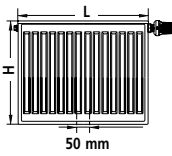
Therm X2 Profil-V in galvanised version

- Special version especially for use in damp rooms and rooms with aggressive atmospheres. Radiators that are provided with a standard paint finish in conformity with DIN 55900 are not suited for these areas (cf. BDH Info Sheet No. 7 Heater Coatings Fields of Application and Limits)
- Hot-dip galvanised steel panel radiators (incl. galvanised top and side covers) with powder coating (duplex coating) in colour RAL 9016
- Other equipment and technical data are identical to the standard version
- Types available, prices and delivery time on request





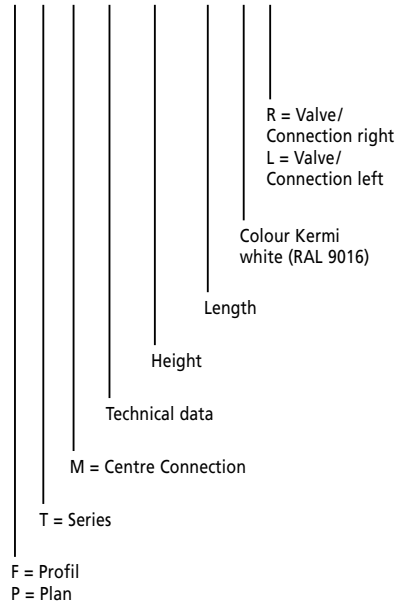
Type 12					Type 22					Type 33					Sample Order	
															Type 12 500 x 1200 mm = Item No. FTV12050120... Type 22 300 x 900 mm = Item No. FTV22030090... Type 33 600 x 600 mm = Item No. FTV33060060...	
double row with convector Depth 64 mm, Item No. FTV12...					double row with two convectors Depth 100 mm, Item No. FTV22...					triple row with three convectors Depth 155 mm, Item No. FTV33...						
300	400	500	600	900	300	400	500	600	900	300	400	500	600	900	Height mm	
1,3125	1,3197	1,3268	1,334	1,3383	1,30610	1,31040	1,3146	1,3189	1,333	1,2863	1,2944	1,30260	1,31070	1,3347	Radiator exponent	
657	805	954	1106	1599	902	1125	1339	1549	2164	1299	1602	1901	2201	3140	watts/m 75/65/20° C	
heat outputs in watts / room temperature 20° C														Length mm		
288	358	425	492	689	384	483	576	666	918	552	698	832	958	1286	400	watts 75/65° C
360	447	532	615	862	480	604	721	833	1148	691	872	1041	1197	1607	500	watts 75/65° C
432	536	638	737	1034	575	724	865	1000	1377	829	1046	1249	1437	1929	600	watts 75/65° C
504	626	744	860	1206	671	845	1009	1166	1607	967	1221	1457	1676	2250	700	watts 75/65° C
576	715	850	983	1379	767	966	1153	1333	1836	1105	1395	1665	1915	2571	800	watts 75/65° C
648	805	957	1106	1551	863	1086	1297	1500	2066	1243	1570	1873	2155	2893	900	watts 75/65° C
720	894	1063	1229	1723	959	1207	1441	1666	2295	1381	1744	2081	2394	3214	1000	watts 75/65° C
792	983	1169	1352	1895	1055	1328	1585	1833	2525	1519	1919	2289	2634	3536	1100	watts 75/65° C
864	1073	1276	1475	2068	1151	1449	1729	1999	2754	1657	2093	2497	2873	3857	1200	watts 75/65° C
936	1162	1382	1598	2240	1247	1569	1873	2166	2984	1795	2267	2706	3112	4179	1300	watts 75/65° C
1008	1252	1488	1721	2412	1343	1690	2018	2333	3213	1934	2442	2914	3352	4500	1400	watts 75/65° C
1152	1431	1701	1967	2757	1535	1931	2306	2666	3672	2210	2791	3330	3831	5143	1600	watts 75/65° C
1296	1609	1914	2212	3102	1726	2173	2594	2999	4131	2486	3139	3746	4310	5786	1800	watts 75/65° C
1440	1788	2126	2458	3446	1918	2414	2882	3332	4590	2762	3488	4162	4788	6428	2000	watts 75/65° C
1656	2056	2445	2827	3963	2206	2776	3315	3832	5279	3177	4011	4787	5507	7393	2300	watts 75/65° C
1872	2325	2764	3196	4480	2494	3138	3747	4332	5967	3591	4535	5411	6225	8357	2600	watts 75/65° C
2160	2682	3189	3687	5169	2877	3621	4323	4998	6886	4143	5232	6243	7183	9643	3000	watts 75/65° C



THERM X2 PROFIL-VM

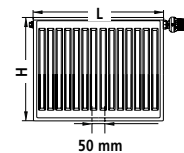
New Item Number

F T M 22 060 100 1 R 1 K

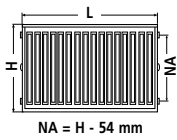


Sample Order	Type 10					Type 11				
Type 10 600 x 1000 mm = Item No. FTM10060100...										
Type 11 600 x 1000 mm = Item No. FTM11060100...										
	single row Depth 61 mm, Item No. FTM10...					single row with convector Depth 61 mm, Item No. FTM11...				
Height mm	300	400	500	600	900	300	400	500	600	900
Radiator exponent	1,2361	1,255	1,2739	1,2928	1,2935	1,2196	1,2371	1,2546	1,2721	1,30440
watts/m 75/65/20° C	335	425	514	602	872	551	697	840	979	1390
Length mm	heat outputs in watts / room temperature 20° C									
400 watts 75/65° C	134	170	206	241	349	220	279	336	392	556
500 watts 75/65° C	168	213	257	301	436	276	349	420	490	695
600 watts 75/65° C	201	255	308	361	523	331	418	504	587	834
700 watts 75/65° C	235	298	360	421	610	386	488	588	685	973
800 watts 75/65° C	268	340	411	482	698	441	558	672	783	1112
900 watts 75/65° C	302	383	463	542	785	496	627	756	881	1251
1000 watts 75/65° C	335	425	514	602	872	551	697	840	979	1390
1100 watts 75/65° C	369	468	565	662	959	606	767	924	1077	1529
1200 watts 75/65° C	402	510	617	722	1046	661	836	1008	1175	1668
1300 watts 75/65° C	436	553	668	783	1134	716	906	1092	1273	1807
1400 watts 75/65° C	469	595	720	843	1221	771	976	1176	1371	1946
1600 watts 75/65° C	536	680	822	963	1395	882	1115	1344	1567	2224
1800 watts 75/65° C	603	765	925	1084	1570	992	1255	1512	1762	2502
2000 watts 75/65° C	670	850	1028	1204	1744	1102	1394	1680	1958	2780
2300 watts 75/65° C	771	978	1182	1385		1267	1603	1932	2252	
2600 watts 75/65° C	871	1105	1336	1565		1433	1812	2184	2546	
3000 watts 75/65° C										



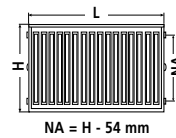


Type 12					Type 22					Type 33					Sample Order	
															Type 12 500 x 1200 mm = Item No. FTM12050120... Type 22 300 x 900 mm = Item No. FTM22030090... Type 33 600 x 600 mm = Item No. FTM33060060...	
double row with convector Depth 64 mm, Item No. FTM12...					double row with two convectors Depth 100 mm, Item No. FTM22...					triple row with three convectors Depth 155 mm, Item No. FTM33...						
300	400	500	600	900	300	400	500	600	900	300	400	500	600	900	Height mm	
1,2731	1,281	1,2889	1,2969	1,3343	1,2776	1,2827	1,2879	1,293	1,30690	1,2839	1,29	1,2962	1,30230	1,329	Radiator exponent	
720	894	1063	1229	1723	959	1207	1441	1666	2295	1381	1744	2081	2394	3214	watts/m 75/65/20° C	
heat outputs in watts / room temperature 20° C														Length mm		
288	358	425	492	689	384	483	576	666	918	552	698	832	958	1286	400	watts 75/65° C
360	447	532	615	862	480	604	721	833	1148	691	872	1041	1197	1607	500	watts 75/65° C
432	536	638	737	1034	575	724	865	1000	1377	829	1046	1249	1437	1929	600	watts 75/65° C
504	626	744	860	1206	671	845	1009	1166	1607	967	1221	1457	1676	2250	700	watts 75/65° C
576	715	850	983	1379	767	966	1153	1333	1836	1105	1395	1665	1915	2571	800	watts 75/65° C
648	805	957	1106	1551	863	1086	1297	1500	2066	1243	1570	1873	2155	2893	900	watts 75/65° C
720	894	1063	1229	1723	959	1207	1441	1666	2295	1381	1744	2081	2394	3214	1000	watts 75/65° C
792	983	1169	1352	1895	1055	1328	1585	1833	2525	1519	1919	2289	2634	3536	1100	watts 75/65° C
864	1073	1276	1475	2068	1151	1449	1729	1999	2754	1657	2093	2497	2873	3857	1200	watts 75/65° C
936	1162	1382	1598	2240	1247	1569	1873	2166	2984	1795	2267	2706	3112	4179	1300	watts 75/65° C
1008	1252	1488	1721	2412	1343	1690	2018	2333	3213	1934	2442	2914	3352	4500	1400	watts 75/65° C
1152	1431	1701	1967	2757	1535	1931	2306	2666	3672	2210	2791	3330	3831	5143	1600	watts 75/65° C
1296	1609	1914	2212	3102	1726	2173	2594	2999	4131	2486	3139	3746	4310	5786	1800	watts 75/65° C
1440	1788	2126	2458	3446	1918	2414	2882	3332	4590	2762	3488	4162	4788		2000	watts 75/65° C
1656	2056	2445	2827		2206	2776	3315	3832		3177	4011	4787	5507		2300	watts 75/65° C
1872	2325	2764	3196		2494	3138	3747	4332		3591					2600	watts 75/65° C
															3000	watts 75/65° C



THERM X2 PROFIL-K

Sample Order	Type 10					Type 11					Type 12				
Type 10 600 x 700 mm = Item No. FK0100607															
Type 11 600 x 100 mm = Item No. FK0110610															
Type 12 500 x 1200 mm = Item No. FK0120512	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Height mm	1,2361	1,255	1,2739	1,2928	1,2935	1,2196	1,2371	1,2546	1,2721	1,30440	1,2731	1,281	1,2889	1,2969	1,3343
Radiator exponent															
watts/m 75/65/20° C	335	425	514	602	872	551	697	840	979	1390	720	894	1063	1229	1723
Length mm	heat outputs in watts / room temperature 20° C														
400 watts 75/65° C	134	170	206	241	349	220	279	336	392	556	288	358	425	492	689
500 watts 75/65° C	168	213	257	301	436	276	349	420	490	695	360	447	532	615	862
600 watts 75/65° C	201	255	308	361	523	331	418	504	587	834	432	536	638	737	1034
700 watts 75/65° C	235	298	360	421	610	386	488	588	685	973	504	626	744	860	1206
800 watts 75/65° C	268	340	411	482	698	441	558	672	783	1112	576	715	850	983	1379
900 watts 75/65° C	302	383	463	542	785	496	627	756	881	1251	648	805	957	1106	1551
1000 watts 75/65° C	335	425	514	602	872	551	697	840	979	1390	720	894	1063	1229	1723
1100 watts 75/65° C	369	468	565	662	959	606	767	924	1077	1529	792	983	1169	1352	1895
1200 watts 75/65° C	402	510	617	722	1046	661	836	1008	1175	1668	864	1073	1276	1475	2068
1300 watts 75/65° C	436	553	668	783	1134	716	906	1092	1273	1807	936	1162	1382	1598	2240
1400 watts 75/65° C	469	595	720	843	1221	771	976	1176	1371	1946	1008	1252	1488	1721	2412
1600 watts 75/65° C	536	680	822	963	1395	882	1115	1344	1567	2224	1152	1431	1701	1967	2757
1800 watts 75/65° C	603	765	925	1084	1570	992	1255	1512	1762	2502	1296	1609	1914	2212	3102
2000 watts 75/65° C	670	850	1028	1204	1744	1102	1394	1680	1958	2780	1440	1788	2126	2458	3446
2300 watts 75/65° C	771	978	1182	1385	2006	1267	1603	1932	2252	3197	1656	2056	2445	2827	3963
2600 watts 75/65° C	871	1105	1336	1565	2267	1433	1812	2184	2546	3614	1872	2325	2764	3196	4480
3000 watts 75/65° C	1005	1275	1542	1806	2616	1653	2091	2520	2937	4170	2160	2682	3189	3687	5169

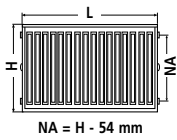


Type 22					Type 33					Sample Order	
										Type 22 600 x 800 mm = Item No, FK0220608 Type 33 400 x 1000 mm = Item No, FK0330410	
double row with two convectors Depth 100 mm, Item No, FK022,...					triple row with three convectors Depth 155 mm, Item No, FK033,...						
300	400	500	600	900	300	400	500	600	900	Height mm	
1,2776	1,2827	1,2879	1,293	1,30690	1,2839	1,29	1,2962	1,30230	1,329	Radiator exponent	
959	1207	1441	1666	2295	1381	1744	2081	2394	3214	watts/m 75/65/20° C	
										Length mm	
384	483	576	666	918	552	698	832	958	1286	400	watts 75/65° C
480	604	721	833	1148	691	872	1041	1197	1607	500	watts 75/65° C
575	724	865	1000	1377	829	1046	1249	1437	1929	600	watts 75/65° C
671	845	1009	1166	1607	967	1221	1457	1676	2250	700	watts 75/65° C
767	966	1153	1333	1836	1105	1395	1665	1915	2571	800	watts 75/65° C
863	1086	1297	1500	2066	1243	1570	1873	2155	2893	900	watts 75/65° C
959	1207	1441	1666	2295	1381	1744	2081	2394	3214	1000	watts 75/65° C
1055	1328	1585	1833	2525	1519	1919	2289	2634	3536	1100	watts 75/65° C
1151	1449	1729	1999	2754	1657	2093	2497	2873	3857	1200	watts 75/65° C
1247	1569	1873	2166	2984	1795	2267	2706	3112	4179	1300	watts 75/65° C
1343	1690	2018	2333	3213	1934	2442	2914	3352	4500	1400	watts 75/65° C
1535	1931	2306	2666	3672	2210	2791	3330	3831	5143	1600	watts 75/65° C
1726	2173	2594	2999	4131	2486	3139	3746	4310	5786	1800	watts 75/65° C
1918	2414	2882	3332	4590	2762	3488	4162	4788	6428	2000	watts 75/65° C
2206	2776	3315	3832	5279	3177	4011	4787	5507	7393	2300	watts 75/65° C
2494	3138	3747	4332	5967	3591	4535	5411	6225	8357	2600	watts 75/65° C
2877	3621	4323	4998	6886	4143	5232	6243	7183	9643	3000	watts 75/65° C

Therm X2 Profil-K in galvanised version

- Special version especially for use in damp rooms and rooms with aggressive atmospheres. Radiators that are provided with a standard paint finish in conformity with DIN 55900 are not suited for these areas (cf. BDH Info Sheet No. 7 Heater Coatings Fields of Application and Limits)
- Hot-dip galvanised steel panel radiators (incl. galvanised top and side covers) with powder coating (duplex coating) in colour RAL 9016
- Other equipment and technical data are identical to the standard version
- Types available, prices and delivery time on request





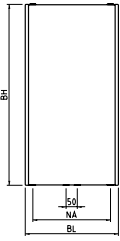
THERM X2 PROFIL-K CONNECTION CENTRE LINE 500/900 MM

Sample Order	Type 12		Type 22		Type 33			
Type 12 554 x 1200 mm = Item No, FK012D512								
Type 22 554 x 800 mm = Item No, FK022D508								
Type 33 954 x 600 mm = Item No, FK033D906								
	double row with convector Depth 64 mm, Item No, FK012D,...		double row with two convectors Depth 100 mm, Item No, FK022D,...		triple row with three convectors Depth 155 mm, Item No, FK033D,...			
Height mm	554	954	554	954	554	954	Selection guide for length	
Radiator exponent	1,2936	1,34	1,2899	1,329	1,2987	1,3348	Steel radiator 50 mm length/ Element / section	Steel radiator 60 mm length/ Element / section
watts/m 75/65/20° C	1153	1812	1564	2402	2252	3346		
Length mm	heat outputs in watts / room temperature 20° C							
400 watts 75/65° C	461	714	626	923	901	1287	8	-
500 watts 75/65° C	577	893	782	1154	1126	1609	10	(8)
600 watts 75/65° C	692	1072	938	1384	1351	1931	12	10
700 watts 75/65° C	807	1250	1095	1615	1577	2253	14	(12)
800 watts 75/65° C	922	1429	1251	1846	1802	2575	16	(14)
900 watts 75/65° C	1038	1608	1408	2076	2027	2896	18	-
1000 watts 75/65° C	1153	1786	1564	2307	2252	3218	20	(16)
1100 watts 75/65° C	1268	1965	1721	2538	2477	3540	22	-
1200 watts 75/65° C	1384	2143	1877	2769	2703	3862	24	20
1300 watts 75/65° C	1499	2322	2033	2999	2928	4184	26	(22)
1400 watts 75/65° C	1614	2501	2190	3230	3153	4506	28	(24)
1600 watts 75/65° C	1845	2858	2503	3691	3603	5149	32	(26)
1800 watts 75/65° C	2076	3215	2815	4153	4054	5793	36	30
2000 watts 75/65° C	2306	3572	3128	4614	4504	6436	40	(34)
2300 watts 75/65° C	2652	4108	3597	5307	5180	7402	46	(38)
2600 watts 75/65° C	2998	4644	4067	5999	5856	8367	52	(44)
3000 watts 75/65° C	3459	5358	4692	6922	6757	9655	60	50

Connection centre line 350 mm (height 400 mm) see table Therm X2 Profil-K.



NOTES



VERTEO PLAN



Sample Order		Type 20				Type 21				Type 22			
Type 20: 1800 x 500 = PSN201800501X3K Type 21: 1600 x 600 = PSN211600601X3K Type 22: 2000 x 400 = PSN222000401X3K													
		Double row, depth 66 mm, Item No. PSN20....				Double row with convector Depth 66 mm, Item No. PSN21...				Double row with two convectors Depth 102 mm, Item No. PSN22...			
Height mm		1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
Length mm		heat outputs in watts / room temperature 20° C											
400	Radiator exponent watts 75/65° C	1,2879 853	1,2903 969	1,2922 1062	1,2998 1114	1,3262 1018	1,3351 1117	1,3379 1209	1,3392 1294	1,3005 1324	1,3122 1453	1,3138 1576	1,315 1691
500	Radiator exponent watts 75/65° C	1,2879 1066	1,2903 1211	1,2922 1327	1,2998 1393	1,3215 1254	1,34 1376	1,3422 1489	1,3356 1593	1,3020 1638	1,315 1798	1,3192 1950	1,3188 2092
600	Radiator exponent watts 75/65° C	1,2879 1279	1,2903 1453	1,2922 1592	1,2998 1672	1,3168 1487	1,345 1632	1,3456 1766	1,3321 1890	1,3035 1950	1,3179 2140	1,3247 2321	1,3226 2490
700	Radiator exponent watts 75/65° C	1,2879 1429	1,2903 1695	1,2922 1858	1,2998 1950	1,3121 1718	1,3499 1885	1,3508 2040	1,3286 2186	1,3050 2259	1,3207 2480	1,3301 2689	1,3264 2886

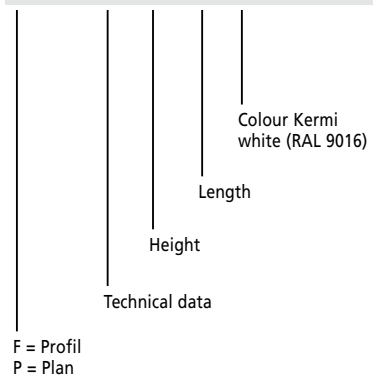


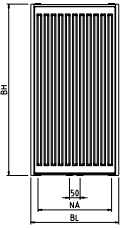
$$\Phi = \Phi_{sl} \left(\frac{\Delta T}{\Delta T_n} \right)^n$$

- Φ = heat output to be determined
- Φ_{sl} = catalogue heat output
- ΔT_n = standard temperature rise
- ΔT = temperature rise at operating conditions which the conversion is based on
- n = radiator exponent

Item Number

P S N 20 160 060 1 X3K





VERTEO PROFIL



Sample Order		Type 10				Type 20				Type 21				Type 22			
Type 10: 2200 x 500 = FSN102200501X3K Type 20: 1800 x 500 = FSN201800501X3K Type 21: 1600 x 600 = FSN211600601X3K Type 22: 2000 x 400 = FSN222000401X3K																	
		Single row, depth 61 mm, Item No. FSN10...				Double row, depth 64 mm, Item No. FSN20...				Double row with convector, depth 64 mm, Item No. FSN21...				Double row with two convectors, depth 100 mm, Item No. FSN22...			
Height mm		1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
Length mm		heat outputs in watts / room temperature 20° C															
400	Radiator exponent watts 75/65° C	1,2535 673	1,2748 746	1,2831 813	1,2984 903	1,3035 943	1,3164 1082	1,3198 1158	1,3211 1256	1,3203 1087	1,3279 1201	1,3338 1319	1,3481 1442	1,3277 1411	1,3299 1548	1,3304 1676	1,3312 1797
500	Radiator exponent watts 75/65° C	1,2535 842	1,2748 933	1,2831 1016	1,2984 1129	1,3035 1179	1,3164 1353	1,3198 1448	1,3211 1571	1,3294 1342	1,3391 1483	1,3442 1629	1,3544 1781	1,3281 1747	1,3341 1916	1,3409 2075	1,3437 2224
600	Radiator exponent watts 75/65° C	1,2535 1010	1,2748 1119	1,2831 1219	1,2984 1355	1,3035 1415	1,3164 1623	1,3198 1737	1,3211 1885	1,3386 1594	1,3503 1761	1,3546 1935	1,3608 2116	1,3284 2080	1,3384 2281	1,3514 2417	1,3563 2648
700	Radiator exponent watts 75/65° C	1,2535 1178	1,2748 1306	1,2831 1422	1,2984 1581	1,3035 1651	1,3164 1894	1,3198 2027	1,3211 2199	1,3477 1844	1,3614 2037	1,365 2238	1,3671 2447	1,3288 2410	1,3427 2644	1,3619 6863	1,3688 3069

Plan/Profil radiators

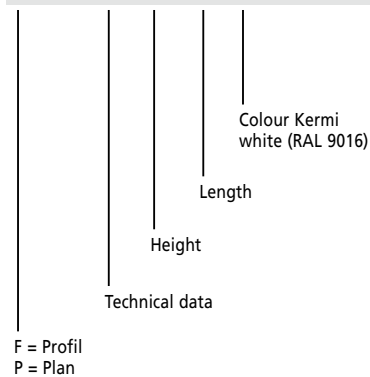


$$\Phi = \Phi_{sl} \left(\frac{\Delta T}{\Delta T_n} \right)^n$$

- Φ = heat output to be determined
- Φ_{sl} = catalogue heat output
- ΔT_n = standard temperature rise
- ΔT = temperature rise at operating conditions which the conversion is based on
- n = radiator exponent

Item Number

F S N 20 160 060 1 X3K



VERTEO ACCESSORIES

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type					
				PSN	PSN				
Wall bracket (short) for vertical steel panel radiators (set)									
Note:		for universal use, made from galvanised steel sheet							
Included in scope of radiator delivery.		Set consists of: 4 wall brackets short, wall spacing 34 mm or 60 mm 4 special screws with hex head, 4 sound protection clips, 2 safety hooks, 6 screws, 6 washers, 6 dowels, 1 air vent plug, 1 blanking plug, 1 instruction sheet, 1 foreign language insert							
ZB01070001		for Type 10, wall spacing 60 mm		1 pc		●			
ZB01070002		for Type 20, 21, 22, wall spacing 34 mm		1 pc		● ●			
Towel rail for vertical steel panel radiators									
		continuously adjustable for height suitable for 700 mm lengths can be cut to shorter lengths, not suitable for Type 10.							
ZC00700001		Surface support + towel bar white (RAL 9016)		1 pc		● ●			
ZC00700002		Surface support + graphite grey (RAL 7024) + towel bar silver anodised		1 pc		● ●			
Retaining clip for side cover Type 20/21									
		8 in a set							
ZA00880001		Surface white (RAL 9016)		1 set		● ●			
ZA00880002		Surface silver metallic		1 set		● ●			
Retaining clip for side cover Type 22									
		8 in a set							
ZA00890001		Surface white (RAL 9016)		1 set		● ●			
ZA00890002		Surface silver metallic		1 set		● ●			
Retaining clip coloured for side cover Type 20/21									
ZA0088*		Surface according to the Kermi colour concept 8 in a set * please specify colour when ordering		1 set		● ●			
Retaining clip coloured for side cover Type 22									
ZA0089*		Surface according to the Kermi colour concept 8 in a set * please specify colour when ordering		1 set		● ●			

VERTEO ACCESSORIES

Item Code Designation	Item Designation / Fig.	Scope of delivery	Radiator type					
			PSN	PSN				
Side cover for Type 20 / 21								
	Note: When ordering please specify colour.							
ZA00900001	Height 1600 mm	1 pc	●	●				
ZA00900002	Height 1800 mm	1 pc	●	●				
ZA00900003	Height 2000 mm	1 pc	●	●				
ZA00900004	Height 2200 mm	1 pc	●	●				
Side cover for Type 22								
	Note: When ordering please specify colour.							
ZA00910001	Height 1600 mm	1 pc	●	●				
ZA00910002	Height 1800 mm	1 pc	●	●				
ZA00910003	Height 2000 mm	1 pc	●	●				
ZA00910004	Height 2200 mm	1 pc	●	●				
Valve shut-off block angular design								
	Fitting with 50 mm connection centre line between radiator and piping system with integrated valve and decorative screen.							
	For connection to the radiator with G 1/2" (internal thread), incl. reducing pipe nipple 1/2" x 3/4". Connections to the piping system 3/4" euro taper (external thread). Connection for thermostatic head M30 x 1.5. Valve adjustable (condition as supplied to customer: for two-pipe operation, valve with highest presetting, incl. installation site cover).							
	By setting the bypass spindle also suitable for single-pipe operation! Not for Verteo Type 10.							
ZV00410001	Valve shut-off block angular design, screen white	1 pc	●	●				
ZV00410002	Valve shut-off block angular design, screen chrome	1 pc	●	●				
ZV00410003	Valve shut-off block angular design, screen stainless steel look	1 pc	●	●				
Valve shut-off block opening								
	Fitting with 50 mm connection centre line between radiator and piping system with integrated valve and decorative screen.							
	For connection to the radiator with G 1/2" (internal thread), incl. reducing pipe nipple 1/2" x 3/4". Connections to the piping system 3/4" euro taper (external thread). Connection for thermostatic head M30 x 1.5. Valve adjustable (condition as supplied to customer: for two-pipe operation, valve with highest presetting, incl. installation site cover).							
	By setting the bypass spindle also suitable for single-pipe operation! Not for Verteo Type 10.							
ZV00400001	Valve shut-off block opening, screen white	1 pc	●	●				
ZV00400002	Valve shut-off block opening, screen chrome	1 pc	●	●				
ZV00400003	Valve shut-off block opening, stainless steel look	1 pc	●	●				
Thermostatic head								
ZV00380001	Thermostatic head chrome	1 pc	●	●				
ZV00380002	Thermostatic head stainless steel look	1 pc	●	●				


STEEL PANEL RADIATOR ACCESSORIES WALL FIXING

Verteo Accessories –
see page 36 - 37

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
				PTV	PTM	PKO	PHO	FTV	FTM	FKO
Built-into-wall bracket set										
		consists of: 2 built-into-wall brackets, 2 separators, 2 locking clips								
ZB01360001		Length 95 mm		1 pc	•	•	•	•	•	•
ZB01360002		Length 130 mm		1 pc	•	•	•	•	•	•
ZB01360003		Length 160 mm		1 pc	•	•	•	•	•	•
ZB01360004		Length 200 mm		1 pc	•	•	•	•	•	•
Built-into-wall bracket as 3rd bracket from L 1800										
		consists of: 1 built-into-wall bracket, 1 separator, 1 locking clip								
ZB01700001		Length 95 mm		1 pc	•	•	•	•	•	•
ZB01700002		Length 130 mm		1 pc	•	•	•	•	•	•
ZB01700003		Length 160 mm		1 pc	•	•	•	•	•	•
ZB01700004		Length 200 mm		1 pc	•	•	•	•	•	•
Locking clip for built-into-wall bracket										
		10 in a set								
ZB01370001				1 set	•	•	•	•	•	•
Separator										
		10 in a set								
ZB01140001				1 set	•	•	•	•	•	•
Extension separator										
		10 in a set								
ZB01150001				1 set	•	•	•	•	•	•
Wall bracket (short)										
		for universal use, made from galvanised steel sheet Set consists of: 2 wall brackets short, wall spacing 34 or 60 mm 2 special screws with hex head and Phillips head (not shown) 2 sound protection clips, 2 safety hooks 2 screws, 2 washers, 2 dowels, 2 separators, 2 spanners for separators (Type 10) (not shown) 1 instruction sheet (not shown)								
ZB01640002		for Type 11 - 33, wall spacing 34 mm		1 pc	•	•	•	•	•	•
ZB01640001		for Type 10, wall spacing 60 mm		1 pc	•	•	•	•	•	•
Wall bracket (short) as 3rd bracket from L 1800										
		for universal use, made from galvanised steel sheet Set consists of: 1 wall bracket short, wall spacing 34 or 60 mm 1 special screw with hex head and Phillips head (not shown) 1 sound protection clip, 1 safety hook 1 screw, 1 washer, 1 dowel, 1 separator, 1 spanners for separator (Type 10) (not shown)								
ZB01620002		for Type 11 - 33, wall spacing 34 mm		1 pc	•	•	•	•	•	•
ZB01620001		for Type 10, wall spacing 60 mm		1 pc	•	•	•	•	•	•

STEEL PANEL RADIATOR ACCESSORIES WALL FIXING

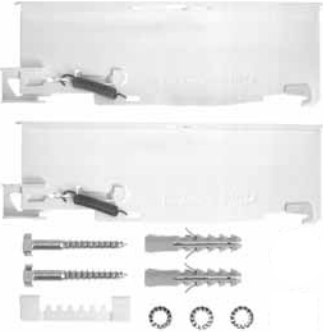
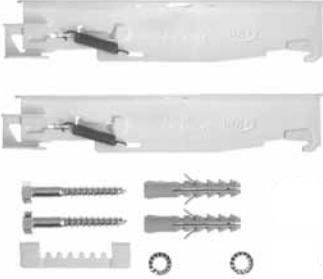

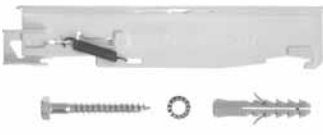
Verteo Accessories -
see page 36 - 37

Item Code Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
			PTV	PTM	PKO	PHO	FTV	FTM	FKO
Corner bracket (long)									
	for universal use (prefabricated houses, wooden and concrete walls, etc.) galvanised steel sheet, angled, due to varying length of limbs two different wall spacings are possible (30 mm, 50 mm), adjustable for height Set consists of: 2 corner brackets, 6 sound protection clips, 2 dehinging safety devices, without dowels and screws								
ZB01650001	H 300 mm	1 pc	●	●	●	●	●	●	●
ZB01650002	H 400 mm	1 pc	●	●	●	●	●	●	●
ZB01650003	H 500 mm	1 pc	●	●	●	●	●	●	●
ZB01650004	H 554 mm	1 pc			●				●
ZB01650005	H 600 mm	1 pc	●	●	●	●	●	●	●
ZB01650007	H 900 mm	1 pc	●	●	●	●	●	●	●
ZB01650008	H 954 mm	1 pc			●				●
Corner bracket									
	as 3rd bracket (from L 1800)								
ZB01590001	H 300 mm	1 pc	●	●	●	●	●	●	●
ZB01590002	H 400 mm	1 pc	●	●	●	●	●	●	●
ZB01590003	H 500 mm	1 pc	●	●	●	●	●	●	●
ZB01590004	H 554 mm	1 pc			●				●
ZB01590005	H 600 mm	1 pc	●	●	●	●	●	●	●
ZB01590007	H 900 mm	1 pc	●	●	●	●	●	●	●
ZB01590008	H 954 mm	1 pc			●				●
	When delivered individually it is necessary to order separate ZB01290001 sound protection clips!								
Sound protection clips									
ZB01290001	for ZB0159... corner bracket 12 in a set	1 set	●	●	●	●	●	●	●

Electrical heater

STEEL PANEL RADIATOR ACCESSORIES WALL FIXING



Verteo Accessories –
see page 36 - 37

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
				PTV	PTM	PKO	PHO	FTV	FTM	FKO
Quick-assembly brackets set for Type 10										
		Finished in Kerma white, for universal use, Set consists of: 2 brackets, finished, with sound protection, 1 sliding safety device, finished, 2 screws 8 x 60 mm, 2 dowels 10 x 60 mm								
ZB01530001	H 300 mm		1 pc	•	•	•	•	•	•	•
ZB01530002	H 400 mm		1 pc	•	•	•	•	•	•	•
ZB01530003	H 500 mm		1 pc	•	•	•	•	•	•	•
ZB01530004	H 600 mm		1 pc	•	•	•	•	•	•	•
ZB01530006	H 900 mm		1 pc	•	•	•	•	•	•	•
Quick-assembly brackets set for Type 11 - 33										
		Finished in Kerma white, for universal use, Set consists of: 2 brackets, finished, with sound protection, 1 sliding safety device, finished, 2 screws 8 x 60 mm, 2 dowels 10 x 60 mm								
ZB01550001	H 300 mm		1 pc	•	•	•	•	•	•	•
ZB01550002	H 400 mm		1 pc	•	•	•	•	•	•	•
ZB01550003	H 500 mm		1 pc	•	•	•	•	•	•	•
ZB01550004	H 554 mm		1 pc			•				•
ZB01550005	H 600 mm		1 pc	•	•	•	•	•	•	•
ZB01550007	H 900 mm		1 pc	•	•	•	•	•	•	•
ZB01550008	H 954 mm		1 pc			•				•
Quick-assembly brackets set for Type 10										
		as 3rd bracket (from L 1800 mm) Finished in Kerma white, Set consists of: 1 bracket, finished, with sound protection, 1 screw 8 x 60 mm, 1 dowel 10 x 60 mm								
ZB01540001	H 300 mm		1 pc	•	•	•	•	•	•	•
ZB01540002	H 400 mm		1 pc	•	•	•	•	•	•	•
ZB01540003	H 500 mm		1 pc	•	•	•	•	•	•	•
ZB01540004	H 600 mm		1 pc	•	•	•	•	•	•	•
ZB01540006	H 900 mm		1 pc	•	•	•	•	•	•	•
Quick-assembly brackets set for Type 11 - 33										
		as 3rd bracket (from L 1800 mm) Finished in Kerma white, Set consists of: 1 bracket, finished, with sound protection, 1 screw 8 x 60 mm, 1 dowel 10 x 60 mm								
ZB01560001	H 300 mm		1 pc	•	•	•	•	•	•	•
ZB01560002	H 400 mm		1 pc	•	•	•	•	•	•	•
ZB01560003	H 500 mm		1 pc	•	•	•	•	•	•	•
ZB02180001	H 554 mm		1 pc			•				•
ZB01560004	H 600 mm		1 pc	•	•	•	•	•	•	•
ZB01560006	H 900 mm		1 pc	•	•	•	•	•	•	•
ZB02180002	H 954 mm		1 pc			•				•




Item Code Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
			PTV	PTM	PKO	PHO	FTV	FTM	FKO
Universal preassembling jig									
ZK00150001	<p>Preassembling jig with integrated arched fitting for flushing, connection G 3/4" outside thread, wall spacing continuously adjustable, enables preinstallation without assembly of the valve radiator.</p> <p>Also possible for Verteo connection centred.</p>	1 pc	●	●			●	●	
Preassembling jig									
ZK00570001	<p>G 3/4" outside thread, wall spacing 30 mm for Type 11-33 and 50 mm for Type 10, enables preinstallation without assembly of the valve radiator.</p> <p>Note: Only suited for fixing the radiator by use of built-into-wall bracket and corner bracket (long).</p>	1 pc	●	●			●	●	









Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
				PTV	PTM	PKO	PHO	FTV	FTM	FKO
Kermi soil stand bracket complete, internal										
		Comprising: 1 bracket foot with standpipe 30 x 10 mm, 1 carrier pipe (with set screw), 1 hook (with washer and nut), 1 bracket frame, 1 support for Type 11, 12 and 33, 1 support for Type 22, 2 covering caps as previously described:								
ZB01380001		Soil stand bracket for H 300, 400, 500 and 554 mm (pipe length 460 mm)	1 pc	●	●	●	●	●	●	●
ZB01380002		Soil stand bracket for H 600, 900 and 954 mm (pipe length 760 mm)	1 pc	●	●	●	●	●	●	●
		Note: When installing the Type 11 valve version, the Type 11 ZB01450001 lateral levelling piece is required! Note: When installing the Type 10, the Type 10 ZB01520001 accessory set is required!								
Plastic rosette										
ZB0119001		Plastic rosette for standpipe 30 x 10 mm (for installation on unfinished floor)	1 pc	●	●	●	●	●	●	●
Lateral levelling piece for installation of Type 11 valve radiator on soil stand bracket (ZB0138 . . .)										
ZB01450001			1 pc	●	●	●	●	●	●	●
Type 10 accessory set for soil stand bracket (ZB0138 . . .)										
ZB01520001		Separator, support and carrier pipe for Type 10	1 pc	●	●	●	●	●	●	●
Screen										
ZB00290001		Screen for bracket foot (pipe 30 x 10 mm) (for installation on finished floor)	1 pc	●	●	●	●	●	●	●



Item Code Designation	Item Designation / Fig.	Scope of delivery	Radiator type							
			PTV	PTM	PKO	PHO	FTV	FTM	FKO	
Kermi soil stand bracket separable, internal										
	<p>Comprising:</p> <ul style="list-style-type: none"> 1 bracket foot with standpipe 30 x 10 mm, 1 upper section H 300 - 554 mm or 600 - 954 mm with connecting pipe, 1 carrier pipe (with set screw), 1 hook (with washer and nut), 1 bracket frame, 1 support for Type 11, 12 and 33, 1 support for Type 22 (33 for FTM and PTM), 2 covering caps <p>as previously described:</p>									
ZB01480001	Soil stand bracket for H 300, 400, 500 and 554 mm for unfinished floor installation (bracket foot height: 245 mm, distance unfinished floor/radiator = 300 mm)	1 pc	●	●	●	●	●	●	●	●
ZB01460001	Soil stand bracket for H 300, 400, 500 and 554 mm for finished floor installation (bracket foot height: 115 mm, finished floor/radiator = 170 mm)	1 pc	●	●	●	●	●	●	●	●
ZB01480002	Soil stand bracket for H 600, 900 and 954 mm for unfinished floor installation (bracket foot height: 245 mm, distance unfinished floor/radiator = 300 mm)	1 pc	●	●	●	●	●	●	●	●
ZB01460002	Soil stand bracket for H 600, 900 and 954 mm for finished floor installation (bracket foot height: 115 mm, finished floor/radiator = 170 mm)	1 pc	●	●	●	●	●	●	●	●
	<p>Note: When installing the Type 11 valve version, the Type 11 ZB01450001 lateral levelling piece is required! (not for FTM/PTM)</p> <p>Note: When installing the Type 10, the Type 10 ZB01520001 accessory set is required! (installation of Type 10 for FTM/PTM not possible)</p>									
Kermi centre bracket separable, internal										
	<p>Extension set for steel panel radiators centre connection from L 1800 mm for central installation/stabilisation consisting of:</p> <ul style="list-style-type: none"> 2 bracket feet 30 x 10 mm, 1 upper section H 300 - 554 mm or 600 - 954 mm with connecting pipe, 1 upper section short with connecting pipe, 2 carrier pipes (with set screw), 1 hook (with washer and nut), 2 bracket frames, 1 assembly angle incl. screws, 1 support for Type 11, 12, 33, 1 support for Type 22, (33 for FTM and PTM) <p>as previously described:</p>									
ZB01470001	Centre bracket for H 300, 400, 500 and 554 mm for unfinished floor installation (bracket foot height: 245 mm)	1 pc		●					●	
ZB01470002	Centre bracket for H 600, 900 and 954 mm for unfinished floor installation (bracket foot height: 245 mm)	1 pc		●					●	

Electrical heater

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
				PTV	PTM	PKO	PHO	FTV	FTM	FKO
Window sill support										
ZC00380001		Window sill support for Type 22 and 33 steel panel radiators Adjustment range 160 - 270 mm adjustment height 80 - 120 mm	1 pc	●	●	●	●	●	●	●
										
Double rosette										
ZT00660001		Double rosette (plastic) 50 mm distance	1 pc	●	●			●	●	●
										
Towel rail for steel panel radiators										
		for universal use, colour white								
ZC00400001		Towel rail length 450 mm	1 pc	●	●	●	●	●	●	●
ZC00400002		Towel rail length 600 mm	1 pc	●	●	●	●	●	●	●
										

Item Code	Designation / Fig.	Scope of delivery	Radiator type						
			PTV	PTM	PKO	PHO	FTV	FTM	FKO
k_V adjuster									
ZV00360001		1 pc	●	●			●	●	
k_V insert standard									
ZV00040001	k_V insert Kermi V3K-S (standard valve) with continuously opening control skirt, 8 main k_V positions and 7 intermediate positions; suitable for all Kermi valve-type steel panel radiators from production of 01/2001 Certified in conformity with EN 215 (Register No. 6T0002 + 6T0006).		1 pc	●	●			●	●
k_V insert for low quantities of water (district heating installations)									
ZV00050001	k_V insert Kermi V3K-F (fine-adjusting valve) with continuously opening control skirt, 8 main k_V positions and 7 intermediate positions; suitable for all Kermi valve-type steel panel radiators from production of 01/2001 Certified in conformity with EN 215 (Register No. 6T0002 + 6T0006).		1 pc	●	●			●	●
Blanking plug 1/2"									
ZT00520001	Blanking plug 1/2" incl. O-ring seal cap instead of the valve insert, e.g. for control of adjacent areas 10 in a set		1 set	●	●	●	●	●	●
Separation plug set for single-pipe system									
ZT00820001	for connecting compact steel panels in the single-pipe system. Set consists of: Separation plug and installation spanner		1 pc			●	●		●
Separation plug set for coupled Therm X2 compact radiators									
ZT00810001	for equilaterally connection of at least 2 coupled Therm X2 compact radiators. Set consists of: Separation plug and instruction sheet		1 pc			●	●		●

SPARE PARTS/COVERS
FOR PLAN/PROFIL RADIATORS

Top cover for Profil radiators		Profil radiators					
		Type 11, 12		Type 22		Type 33	
	Length	Item Number		Item Number		Item Number	
	400	ZA00160001		ZA00170001		ZA00180001	
	500	ZA00160002		ZA00170002		ZA00180002	
	600	ZA00160003		ZA00170003		ZA00180003	
	700	ZA00160004		ZA00170004		ZA00180004	
	800	ZA00160005		ZA00170005		ZA00180005	
	900	ZA00160006		ZA00170006		ZA00180006	
	1000	ZA00160007		ZA00170007		ZA00180007	
	1100	ZA00160008		ZA00170008		ZA00180008	
	1200	ZA00160009		ZA00170009		ZA00180009	
	1300	ZA00160010		ZA00170010		ZA00180010	
	1400	ZA00160011		ZA00170011		ZA00180011	
	1600	ZA00160012		ZA00170012		ZA00180012	
	1800	ZA00160013		ZA00170013		ZA00180013	
	2000	ZA00160014		ZA00170014		ZA00180014	
	2300	ZA00160015		ZA00170015		ZA00180015	
	2600	ZA00160016		ZA00170016		ZA00180016	
	3000	ZA00160017		ZA00170017		ZA00180017	
	Top cover for Plan radiators		Plan radiators				
		Type 11, 12		Type 22		Type 33	
	Length	Item Number		Item Number		Item Number	
	405	ZA00210001		ZA00220001		ZA00230001	
	505	ZA00210002		ZA00220002		ZA00230002	
	605	ZA00210003		ZA00220003		ZA00230003	
	705	ZA00210004		ZA00220004		ZA00230004	
	805	ZA00210005		ZA00220005		ZA00230005	
	905	ZA00210006		ZA00220006		ZA00230006	
	1005	ZA00210007		ZA00220007		ZA00230007	
	1105	ZA00210008		ZA00220008		ZA00230008	
	1205	ZA00210009		ZA00220009		ZA00230009	
	1305	ZA00210017		ZA00220017		ZA00230017	
	1405	ZA00210010		ZA00220010		ZA00230010	
	1605	ZA00210011		ZA00220011		ZA00230011	
	1805	ZA00210012		ZA00220012		ZA00230012	
	2005	ZA00210013		ZA00220013		ZA00230013	
	2305	ZA00210014		ZA00220014		ZA00230014	
2605	ZA00210015		ZA00220015		ZA00230015		
3005	ZA00210016		ZA00220016		ZA00230016		







SPARE PARTS/SIDE PANELS
FOR VALVE RADIATORS PLAN/PROFIL

Item Code	Item Designation / Fig.		Scope of delivery	Radiator type							
				PTV	PTM	PKO	PHO	FTV	FTM	FKO	
Side cover for Type 11, 12											
ZA00260002	Connecting side	H 300/305	1 pc	●				●			
ZA00260004	Connecting side	H 400/405	1 pc	●				●			
ZA00260006	Connecting side	H 500/505	1 pc	●				●			
ZA00260008	Connecting side	H 600/605	1 pc	●				●			
ZA00260012	Connecting side	H 900/905	1 pc	●				●			
ZA00260001		H 300/305	1 pc	●	●			●	●		
ZA00260003		H 400/405	1 pc	●	●			●	●		
ZA00260005		H 500/505	1 pc	●	●			●	●		
ZA00260007		H 600/605	1 pc	●	●			●	●		
ZA00260011		H 900/905	1 pc	●	●			●	●		
Side cover for Type 22											
ZA00270002	Connecting side	H 300/305	1 pc	●				●			
ZA00270004	Connecting side	H 400/405	1 pc	●				●			
ZA00270006	Connecting side	H 500/505	1 pc	●				●			
ZA00270008	Connecting side	H 600/605	1 pc	●				●			
ZA00270012	Connecting side	H 900/905	1 pc	●				●			
ZA00270001		H 300/305	1 pc	●	●			●	●		
ZA00270003		H 400/405	1 pc	●	●			●	●		
ZA00270005		H 500/505	1 pc	●	●			●	●		
ZA00270007		H 600/605	1 pc	●	●			●	●		
ZA00270011		H 900/905	1 pc	●	●			●	●		
Side cover for valve radiators with right-hand connection - Type 33											
ZA00280004	on the right	H 300/305	1 pc	●				●			
ZA00280008	on the right	H 400/405	1 pc	●				●			
ZA00280012	on the right	H 500/505	1 pc	●				●			
ZA00280016	on the right	H 600/605	1 pc	●				●			
ZA00280024	on the right	H 900/905	1 pc	●				●			
ZA00280001	on the left (for FTM/PTM*)	H 300/305	1 pc	●	●			●	●		
ZA00280005	on the left (for FTM/PTM*)	H 400/405	1 pc	●	●			●	●		
ZA00280009	on the left (for FTM/PTM*)	H 500/505	1 pc	●	●			●	●		
ZA00280013	on the left (for FTM/PTM*)	H 600/605	1 pc	●	●			●	●		
ZA00280021	on the left (for FTM/PTM*)	H 900/905	1 pc	●	●			●	●		
Side cover for valve radiators with left-hand connection - Type 33											
ZA00280003	on the right (for FTM/PTM*)	H 300/305	1 pc	●	●			●	●		
ZA00280007	on the right (for FTM/PTM*)	H 400/405	1 pc	●	●			●	●		
ZA00280011	on the right (for FTM/PTM*)	H 500/505	1 pc	●	●			●	●		
ZA00280015	on the right (for FTM/PTM*)	H 600/605	1 pc	●	●			●	●		
ZA00280023	on the right (for FTM/PTM*)	H 900/905	1 pc	●	●			●	●		
ZA00280002	on the left	H 300/305	1 pc	●				●			
ZA00280006	on the left	H 400/405	1 pc	●				●			
ZA00280010	on the left	H 500/505	1 pc	●				●			
ZA00280014	on the left	H 600/605	1 pc	●				●			
ZA00280022	on the left	H 900/905	1 pc	●				●			




* if using for Profil/Plan radiators with centre connection this must always be specified when ordering.

SPARE PARTS/SIDE PANELS
FOR PLAN/PROFIL COMPACT RADIATORS

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type							
				PTV	PTM	PKO	PHO	FTV	FTM	FKO	
Side cover for Type 11, 12											
ZA00260001		H 300/305	1 pc			●					●
ZA00260003		H 400/405	1 pc			●					●
ZA00260005		H 500/505	1 pc			●					●
ZA00260013		H 554/559	1 pc			●					●
ZA00260007		H 600/605	1 pc			●					●
ZA00260011		H 900/905	1 pc			●					●
ZA00260014		H 954/959	1 pc			●					●
Side cover for Type 22											
ZA00270001		H 300/305	1 pc			●					●
ZA00270003		H 400/405	1 pc			●					●
ZA00270005		H 500/505	1 pc			●					●
ZA00270013		H 554/559	1 pc			●					●
ZA00270007		H 600/605	1 pc			●					●
ZA00270011		H 900/905	1 pc			●					●
ZA00270014		H 954/959	1 pc			●					●
Side cover for Type 33											
ZA00280003	on the right	H 300/305	1 pc			●					●
ZA00280007	on the right	H 400/405	1 pc			●					●
ZA00280011	on the right	H 500/505	1 pc			●					●
ZA00280026	on the right	H 554/559	1 pc			●					●
ZA00280015	on the right	H 600/605	1 pc			●					●
ZA00280023	on the right	H 900/905	1 pc			●					●
ZA00280028	on the right	H 954/959	1 pc			●					●
ZA00280001	on the left	H 300/305	1 pc			●					●
ZA00280005	on the left	H 400/405	1 pc			●					●
ZA00280009	on the left	H 500/505	1 pc			●					●
ZA00280025	on the left	H 554/559	1 pc			●					●
ZA00280013	on the left	H 600/605	1 pc			●					●
ZA00280021	on the left	H 900/905	1 pc			●					●
ZA00280027	on the left	H 954/959	1 pc			●					●

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
				PTV	PTM	PKO	PHO	FTV	FTM	FKO
Kermi Clip, on the right										
		Kermi Clip for Type 11-33 on the right								
ZK00070001	white		1 set	●	●	●	●	●	●	●
ZK00070002	silver metallic		1 set	●	●	●	●	●	●	●
	10 in a set									
Kermi Clip, on the left										
		Kermi Clip for Type 11-33 on the left								
ZK00060001	white		1 set	●	●	●	●	●	●	●
ZK00060002	silver metallic		1 set	●	●	●	●	●	●	●
	10 in a set									
Fixing adapter										
ZK00140001	Fixing adapter for H 600 mm for retrofitting top cover and side screens from 10/93 on Profil radiators to 10/93		1 set	●	●	●	●	●	●	●
	10 in a set									
Retaining clip for top cover, Type 11										
		from 10/2000								
ZA00200001	white		1 set	●	●	●	●	●	●	●
ZA00200004	silver metallic		1 set	●	●	●	●	●	●	●
	10 in a set									
Retaining clip for top cover, Type 12										
		from 10/2000								
ZA00200002	white		1 set	●	●	●	●	●	●	●
ZA00200005	silver metallic		1 set	●	●	●	●	●	●	●
	10 in a set									
Retaining clip for top cover, Type 22 / 23										
		from 10/2000								
ZA00200003	white		1 set	●	●	●	●	●	●	●
ZA00200006	silver metallic		1 set	●	●	●	●	●	●	●
	10 in a set									

SPARE PARTS RADIATOR PAINT

Item Code	Designation	Item Designation / Fig.	Scope of delivery	Radiator type						
				PTV	PTM	PKO	PHO	FTV	FTM	FKO
Spray can										
ZK00160001		Spray can 150 ml, Kermi white	1 pc	●	●	●	●	●	●	●
										
Touch up paint										
ZK00100001		Touch up paint, Kermi white	1 pc	●	●	●	●	●	●	●
										
Paint can										
ZK00090001		Paint can 500 g, Kermi white	1 pc	●	●	●	●	●	●	●
										
		<p>Note</p> <p>Touch up paint and paint cans in other colours on request</p>								

THERM X2 PLAN-V/-VM/-K WEIGHT, WATER CONTENT

Height mm Length mm	Type 10					Type 11					Type 12					Type 22					Type 33									
	305	405	505	605	905	305	405	505	605	905	305	405	505	605	905	305	405	505	605	905	305	405	505	605	905					
405	kg 4,17	5,26	6,34	7,43	10,68	0,72	0,90	1,08	1,26	1,80	7,49	9,76	12,04	14,31	21,14	1,44	1,80	2,16	2,52	3,60	8,59	11,27	13,94	16,61	24,62	2,16	2,70	3,24	3,78	5,40
505	kg 5,02	6,37	7,73	9,08	13,14	0,89	1,12	1,35	1,57	2,25	8,84	10,88	12,93	15,07	21,90	1,11	1,44	1,77	2,10	3,00	10,43	13,75	17,07	20,39	30,36	1,48	1,96	2,44	2,92	4,14
605	kg 5,86	7,49	9,11	10,73	15,61	1,08	1,35	1,62	1,89	2,70	10,74	14,12	17,50	20,89	31,04	1,26	1,62	2,00	2,38	3,42	12,26	16,23	20,20	24,18	36,10	1,74	2,22	2,70	3,18	4,50
705	kg 6,70	8,60	10,49	12,39	18,07	1,25	1,57	1,89	2,20	3,15	12,36	16,30	20,24	24,17	35,98	1,44	1,80	2,16	2,52	3,60	14,09	18,71	23,34	27,96	41,84	2,07	2,70	3,33	4,05	5,97
805	kg 7,55	9,71	11,88	14,04	20,53	1,44	1,80	2,16	2,52	3,60	13,99	18,48	22,97	27,46	40,93	1,62	2,16	2,70	3,24	4,50	15,92	21,20	26,47	31,75	47,57	2,29	3,00	3,75	4,50	6,45
905	kg 8,39	10,83	13,26	15,69	22,99	1,60	2,02	2,43	2,83	4,05	15,61	20,65	25,70	30,75	45,88	1,80	2,34	2,88	3,42	4,80	17,75	23,68	29,60	35,53	53,31	2,50	3,30	4,10	4,90	7,00
1005	kg 9,24	11,94	14,64	17,34	25,45	1,80	2,25	2,70	3,15	4,50	17,29	22,89	28,48	34,08	50,88	2,00	2,55	3,10	3,65	5,10	19,68	26,25	32,83	39,41	59,14	2,80	3,70	4,60	5,50	7,80
1105	kg 10,08	13,05	16,02	19,00	27,91	1,99	2,48	2,97	3,47	4,95	18,91	25,06	31,22	37,37	55,83	2,20	2,85	3,50	4,15	5,70	21,51	28,74	35,96	43,19	64,88	3,00	4,00	5,00	6,00	8,40
1205	kg 10,92	14,17	17,41	20,65	30,37	2,16	2,70	3,24	3,78	5,40	20,53	27,24	33,95	40,66	60,78	2,40	3,15	3,90	4,65	6,30	23,34	31,22	39,10	46,98	70,62	3,20	4,20	5,20	6,20	8,70
1305	kg 11,77	15,28	18,79	22,30	32,83	2,35	2,93	3,51	4,10	5,85	22,16	29,42	36,68	43,94	65,73	2,60	3,45	4,30	5,15	7,05	25,17	33,70	42,23	50,76	76,36	3,40	4,50	5,60	6,70	9,30
1405	kg 12,61	16,39	20,17	23,95	35,29	2,52	3,15	3,78	4,41	6,30	23,89	31,70	39,52	47,33	70,78	2,80	3,60	4,40	5,20	7,10	27,19	36,37	45,55	54,73	82,28	3,60	4,80	6,00	7,20	10,00
1605	kg 14,30	18,62	22,94	27,26	40,21	2,88	3,60	4,32	5,04	7,20	27,14	36,06	44,98	53,91	80,68	3,00	3,90	4,80	5,70	7,60	30,85	41,33	51,82	62,30	93,76	4,00	5,20	6,40	7,60	10,40
1805	kg 16,08	20,94	25,80	30,65	45,23	3,24	4,05	4,86	5,67	8,10	30,48	40,51	50,54	60,57	90,66	3,30	4,35	5,40	6,45	8,70	34,60	46,39	58,18	69,96	105,32	4,40	5,80	7,20	8,60	11,80
2005	kg 17,77	23,16	28,56	33,96	50,15	3,60	4,50	5,40	6,30	9,00	33,72	44,86	56,00	67,14	100,56	3,60	4,80	6,00	7,20	9,60	38,27	51,35	64,44	77,53	116,80	5,00	6,60	8,20	9,80	13,40
2305	kg 20,30	26,50	32,71	38,92	57,53	4,14	5,18	6,21	7,24	10,35	38,60	51,40	64,20	77,00	115,41	4,14	5,40	6,70	8,00	10,80	43,76	58,80	73,84	88,89	134,01	5,60	7,40	9,20	11,00	14,80
2605	kg 22,83	29,84	36,86	43,87	64,91	4,68	5,85	7,02	8,19	11,70	43,52	57,99	72,45	86,91	130,30	4,68	6,15	7,62	9,09	12,30	49,35	66,34	83,34	100,33	151,32	6,40	8,40	10,40	12,40	16,40
3005	kg 26,21	34,30	42,39	50,48	74,76	5,40	6,75	8,10	9,45	13,50	50,07	66,75	83,43	100,11	150,15	5,40	7,20	9,00	10,80	14,40	56,77	76,37	95,96	115,56	174,36	7,60	10,00	12,40	14,80	19,20

weight in kg
water content in ltr

Weight allowance for
Therm X2 Plan-V/-VM:
0,5 kg

Note
There is a limited length
spectrum available for
Therm X2 Plan-VM.

THERM X2 PLAN-K CONNECTION CENTRE LINE 500/900 MM WEIGHT, WATER CONTENT

Length mm		Type 12		Type 22		Type 33	
		559	959	559	959	559	959
405	kg	13,07	22,18	14,99	25,68	21,40	36,76
	ltr	2,35	3,79	2,35	3,79	3,53	5,69
505	kg	16,05	27,37	18,37	31,66	26,24	45,35
	ltr	2,94	4,74	2,94	4,74	4,41	7,11
605	kg	19,03	32,57	21,76	37,65	31,08	53,93
	ltr	3,53	5,69	3,53	5,69	5,30	8,54
705	kg	22,01	37,76	25,14	43,63	35,92	62,51
	ltr	4,12	6,64	4,12	6,64	6,18	9,96
805	kg	24,99	42,96	28,52	49,62	40,75	71,10
	ltr	4,71	7,59	4,71	7,59	7,06	11,38
905	kg	27,97	48,15	31,90	55,60	45,59	79,68
	ltr	5,30	8,54	5,30	8,54	7,95	12,81
1005	kg	31,00	53,40	35,37	61,68	50,58	88,42
	ltr	5,89	9,49	5,89	9,49	8,83	14,23
1105	kg	33,98	58,59	38,75	67,67	55,42	97,00
	ltr	6,47	10,43	6,47	10,43	9,71	15,65
1205	kg	36,96	63,79	42,13	73,65	60,33	105,66
	ltr	7,06	11,38	7,06	11,38	10,59	17,07
1305	kg	39,94	68,98	45,51	79,64	65,01	114,09
	ltr	7,65	12,33	7,65	12,33	11,48	18,50
1405	kg	43,02	74,28	49,08	85,80	70,23	123,05
	ltr	8,24	13,28	8,24	13,28	12,36	19,92
1605	kg	48,98	84,67	55,84	97,77	79,90	140,22
	ltr	9,42	15,18	9,42	15,18	14,13	22,77
1805	kg	55,03	95,15	62,69	109,83	89,67	157,48
	ltr	10,59	17,07	10,59	17,07	15,89	25,61
2005	kg	60,99	105,55	69,45	121,80	99,34	174,65
	ltr	11,77	18,97	11,77	18,97	17,66	28,46
2305	kg	69,92	121,13	79,59	139,76	113,85	200,40
	ltr	13,54	21,82	13,54	21,82	20,31	32,73
2605	kg	78,91	136,77	89,82	157,80	128,51	226,30
	ltr	15,30	24,66	15,30	24,66	22,96	37,00
3005	kg	90,88	157,60	103,44	181,84	148,01	260,79
	ltr	17,66	28,46	17,66	28,46	26,49	42,69




weight in kg
water content in ltr

THERM X2 PROFIL-K CONNECTION CENTRE LINE 500/900 MM WEIGHT, WATER CONTENT, RADIATOR DESIGN

Length mm		Type 12		Type 22		Type 33	
		554	954	554	954	554	954
400	kg	11,18	18,98	13,09	22,46	19,50	33,56
	ltr	2,35	3,79	2,35	3,79	3,53	5,69
500	kg	13,70	23,39	16,00	27,66	23,87	41,36
	ltr	2,94	4,74	2,94	4,74	4,41	7,11
600	kg	16,21	27,80	18,91	32,86	28,24	49,16
	ltr	3,53	5,69	3,53	5,69	5,30	8,54
700	kg	18,73	32,21	21,83	38,06	32,61	56,95
	ltr	4,12	6,64	4,12	6,64	6,18	9,96
800	kg	21,25	36,63	24,74	43,26	36,98	64,75
	ltr	4,71	7,59	4,71	7,59	7,06	11,38
900	kg	23,76	41,04	27,65	48,45	41,35	72,54
	ltr	5,30	8,54	5,30	8,54	7,95	12,81
1000	kg	26,33	45,50	30,66	53,75	45,87	80,49
	ltr	5,89	9,49	5,89	9,49	8,83	14,23
1100	kg	28,85	49,92	33,57	58,94	50,24	88,29
	ltr	6,47	10,43	6,47	10,43	9,71	15,65
1200	kg	31,36	54,33	36,49	64,14	54,67	96,15
	ltr	7,06	11,38	7,06	11,38	10,59	17,07
1300	kg	33,88	58,74	39,40	69,34	58,91	103,81
	ltr	7,65	12,33	7,65	12,33	11,48	18,50
1400	kg	36,50	63,26	42,50	74,72	63,65	111,98
	ltr	8,24	13,28	8,24	13,28	12,36	19,92
1600	kg	41,53	72,08	48,32	85,12	72,38	127,57
	ltr	9,42	15,18	9,42	15,18	14,13	22,77
1800	kg	46,65	81,00	54,24	95,61	81,21	143,25
	ltr	10,59	17,07	10,59	17,07	15,89	25,61
2000	kg	51,69	89,82	60,07	106,00	89,95	158,84
	ltr	11,77	18,97	11,77	18,97	17,66	28,46
2300	kg	59,23	103,06	68,81	121,60	103,06	182,23
	ltr	13,54	21,82	13,54	21,82	20,31	32,73
2600	kg	66,83	116,35	77,64	137,28	116,32	205,77
	ltr	15,30	24,66	15,30	24,66	22,96	37,00
3000	kg	76,95	134,05	89,39	158,17	133,94	237,11
	ltr	17,66	28,46	17,66	28,46	26,49	42,69

weight in kg
water content in ltr

Connection centre line 350 mm (height 400 mm)
see table Profil compact radiator

Registered output data Therm X2 Compact Profil special height							
Height mm	Type 12		Type 22		Type 33		
	Φ_{SL} W/m	n	Φ_{SL} W/m	n	Φ_{SL} W/m	n	
554	1153	1,2936	1564	1,2899	2252	1,2987	
954	1812	1,34	2402	1,329	3346	1,3348	
Radiated portion conventional steel panel radiators	20 %		20 %		10 %		
Radiated portion Therm X2	 30 %		 30 %		 20 %		

Φ_{SL} = standard heat output based on 1 m length, according to DIN EN 442 at a flow temperature of $t_V = 75^\circ \text{C}$, a return temperature of $t_R = 65^\circ \text{C}$ and a room temperature of $t_L = 20^\circ \text{C}$

n = exponent of the space heater characteristic

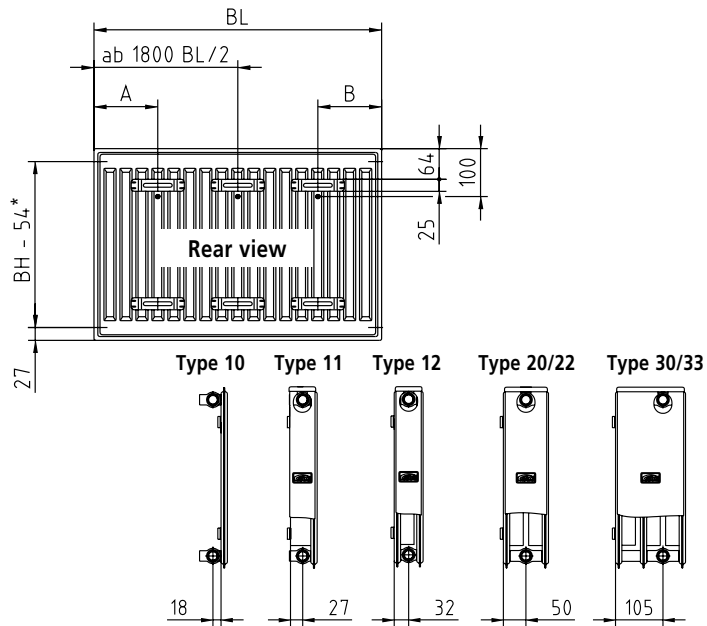
On the basis of registered heat outputs per m lengths result for the particular sizes that appear in the output tables for specified standard heat outputs.

$$\Phi_{SL} = \Phi_{SL} \times \text{length in m}$$

FITTING DIMENSIONS

Therm X2 Plan-K/Profil-K

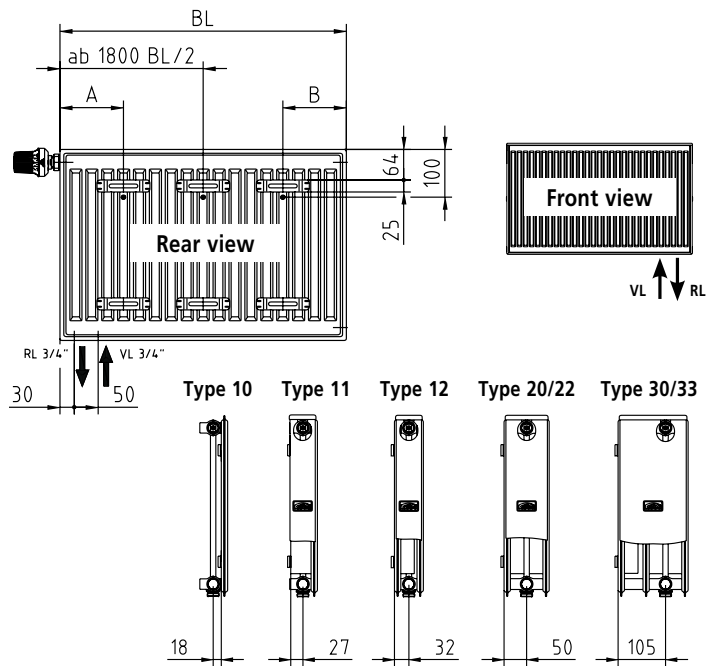
Technical data	L	Dimension A	Dimension B
10	400	100	100
10	500 - 3000	140	140
11	400 - 3000	85	85
12/20/22/30/33	400	100	100
12/20/22/30/33	500 - 3000	140	140



* for Therm X2 Plan-K
BH-59

Therm X2 Plan-V/Profil-V

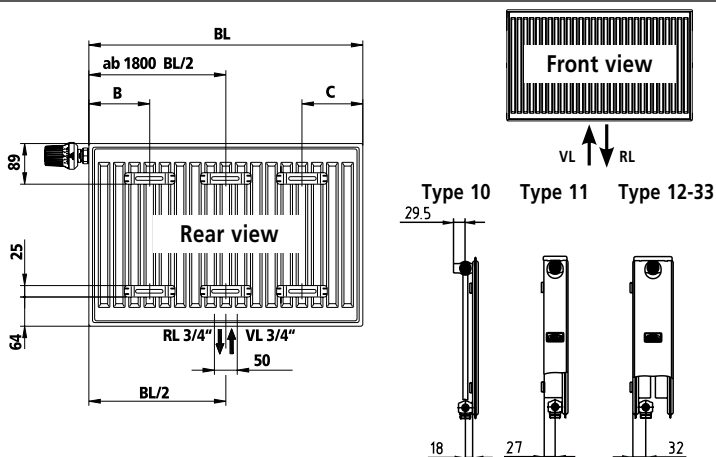
Technical data	L	Dimension A	Dimension B
10	400	165	100
10	500 - 3000	165	140
11	400 - 3000	85	85
12/20/22/30/33	400	100	100
12/20/22/30/33	500 - 3000	140	140



"Valve on the right"
version as displayed,
"Valve on the left"
version mirror image.

Therm X2 Plan-VM/Profil-VM

Technical data	L	Dimension B	Dimension C
10	400	165	100
10	500 - 2600	165	140
11	400 - 2600	85	85
12/20/22/30/33	400	100	100
12/20/22/30/33	500 - 2600	140	140



"Valve on the right"
version as displayed,
"Valve on the left"
version mirror image.

Note

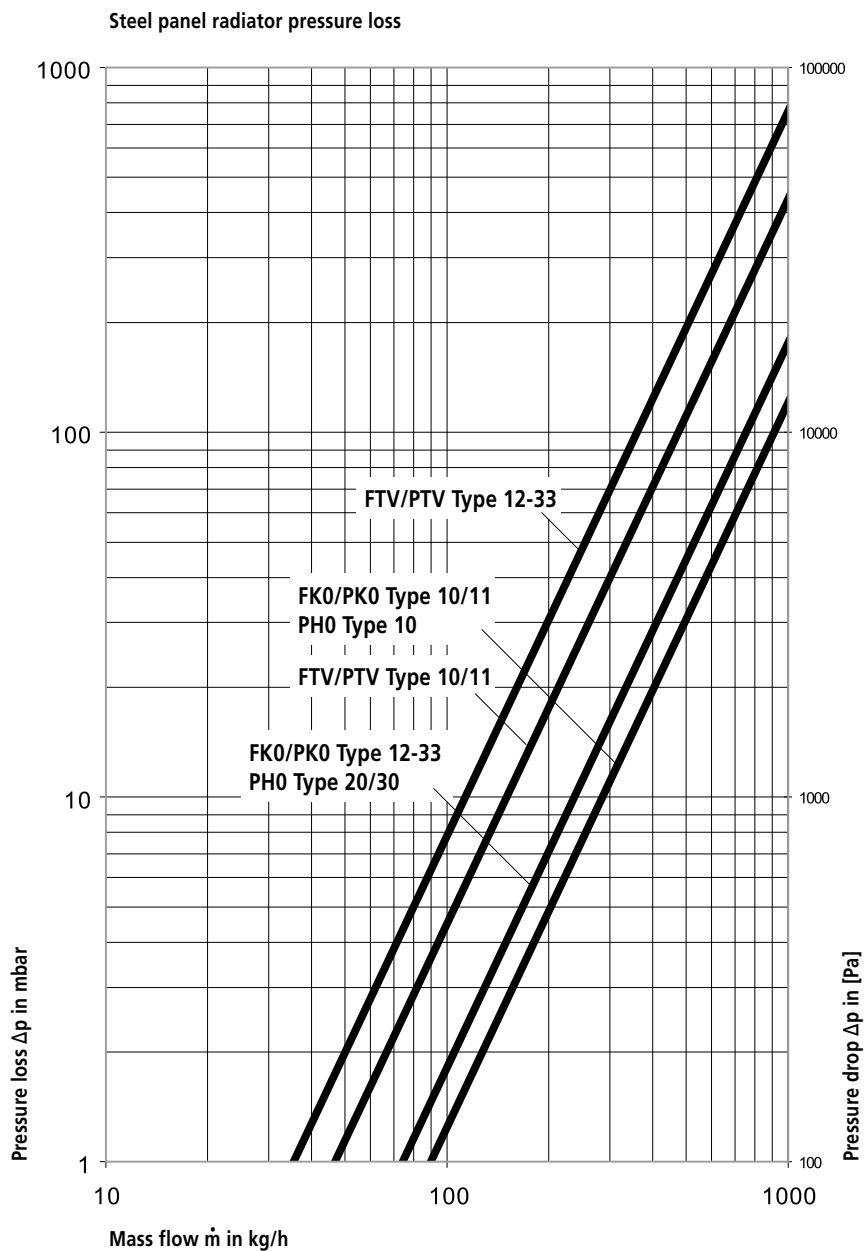
For Therm X2 VM the flow (VL) is always on the left, independent of the valve's position.

STEEL PANEL RADIATOR PRESSURE LOSS

Volume flow rate chart for FK0, FTV, PK0, PTV, PH0

The specifications for compact radiators' pressure loss apply to the connection on the same side.

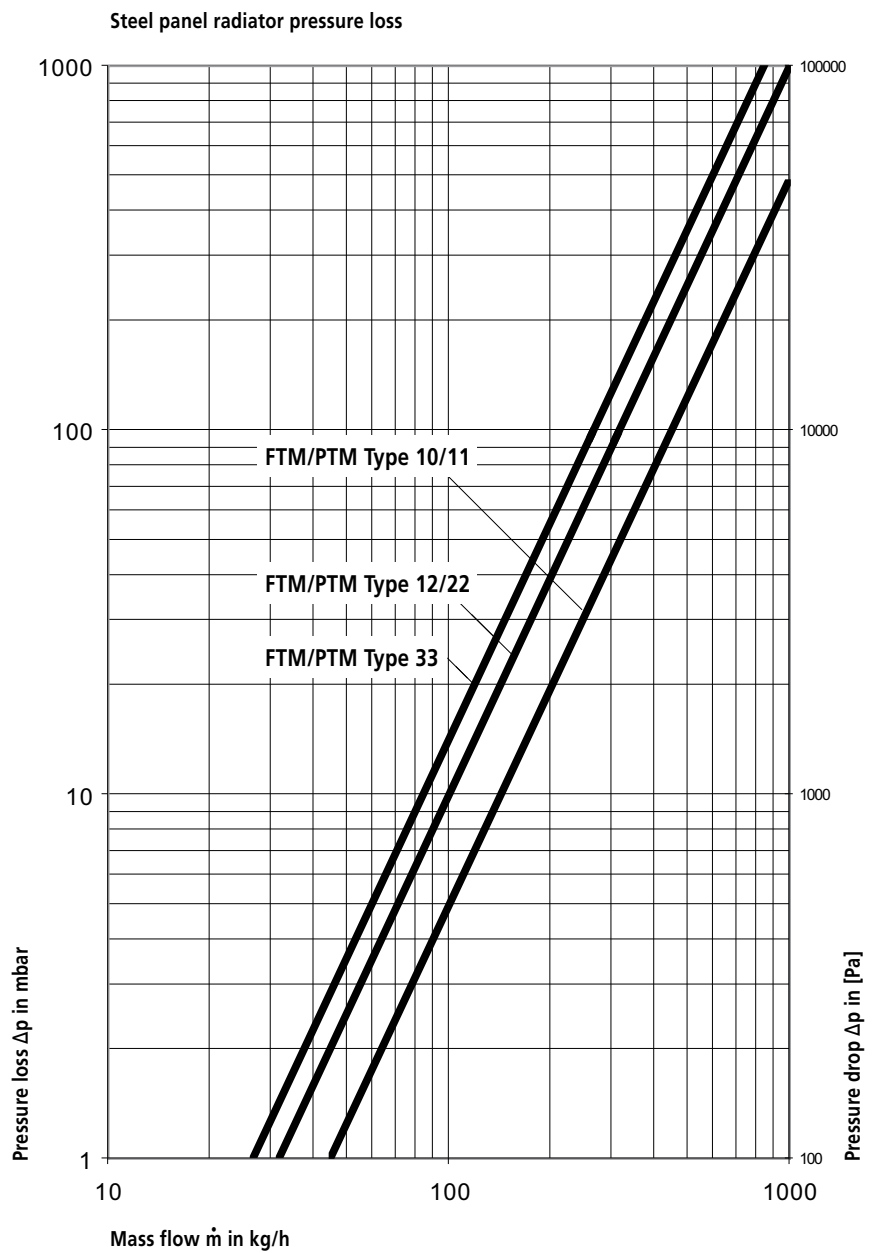
Pressure loss for valve radiators entails neither the valve nor a connection fitting.



STEEL PANEL RADIATOR PRESSURE LOSS

Volume flow rate chart for FTM, PTM

Pressure loss entails neither the valve nor a connection fitting.



VALVE TECHNOLOGY STANDARD VALVE STEEL PANEL RADIATORS

Valve Technology Standard Valve V3K S

Kermi valve radiators are equipped ex factory for two-pipe systems. Every radiator is equipped with a preset valve insert relative to its heat output. Also, the k_V presetting is labelled via colour-coding on the front side (cf. table).



Note

Thermostat valves with presetting comply with requirements of the German Energy Saving Ordinance (EnEV) and according to DIN 4701-10 can be designed with either 1 or 2 K proportional deviation.
Certified in conformity with EN 215.

Setting chart for a deviation of 1 K

k_V values table

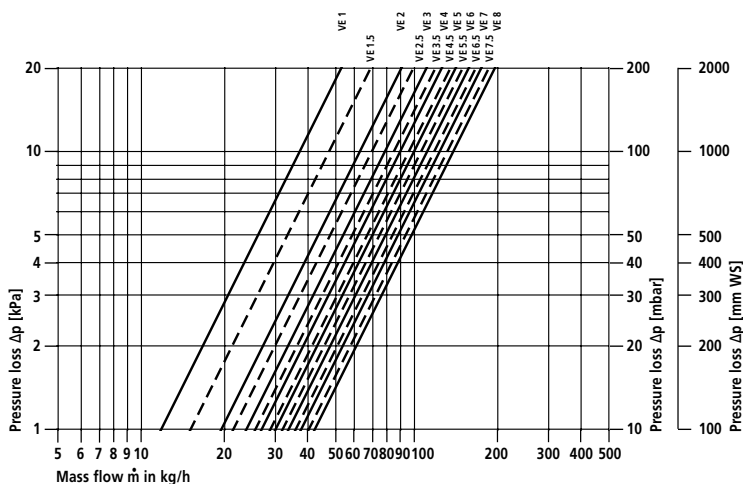
Valve insert V3K S/V4K S*

Setting	1	1.5	2	2.5	3	3.5	4	4.5
k_V value to	0,12	0,15	0,19	0,22	0,24	0,27	0,28	0,31
Colour**				white				red

Valve insert V3K S

Setting	5	5.5	6	6.5	7	7.5	8
k_V value to	0,33	0,35	0,37	0,38	0,39	0,39	0,40
Colour**			black				blue

* visual labelling of the k_V presettings ex factory



The valve's pressure loss is factored in this chart.
The radiator's pressure loss comes from the chart for steel panel radiators.

Setting chart for a deviation of 2 K

k_V values table

Valve insert V3K S/V4K S*

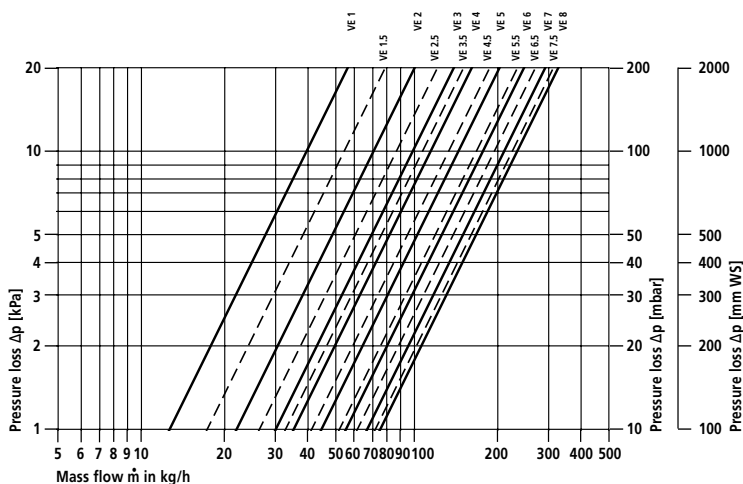
Setting	1	1.5	2	2.5	3	3.5	4	4.5
k_V value to	0,13	0,18	0,22	0,27	0,31	0,35	0,38	0,42
Colour**				white				red

Valve insert V3K S

Setting	5	5.5	6	6.5	7	7.5	8
k_V value to	0,47	0,52	0,57	0,62	0,66	0,71	0,75
Colour**			black				blue

* set in the Kermi valve shut-off block

** visual labelling of the k_V presettings ex factory



The valve's pressure loss is factored in this chart.
The radiator's pressure loss comes from the chart for steel panel radiators.

VALVE TECHNOLOGY FINE-ADJUSTING VALVE STEEL PANEL RADIATORS

Valve Technology Fine-adjusting valve V3K F

Kermi valve radiators can also be equipped with a fine adjusting valve. The adjustable valve insert enables reproducible settings of low water quantities that are required primarily in district heating installations with large temperature spreads. The chart pictured indicates the setting values.



k_V values table

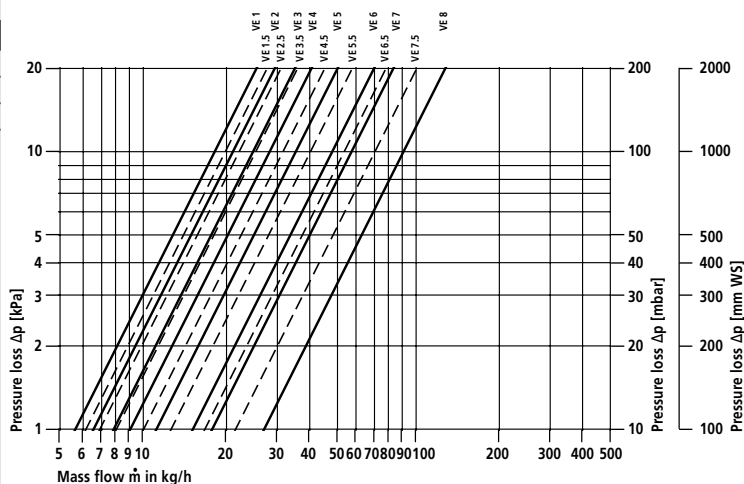
Valve insert V3K F

Setting	1	1.5	2	2.5	3	3.5	4	4.5
k_V value to	0,06	0,06	0,06	0,07	0,08	0,08	0,09	0,10
Colour**								

Valve insert V3K F

Setting	5	5.5	6	6.5	7	7.5	8
k_V value to	0,11	0,13	0,15	0,17	0,18	0,22	0,26
Colour**	yellow			green			

* visual labelling of the k_V presettings ex factory



Note

Thermostat valves with presetting comply with requirements of the German Energy Saving Ordinance (EnEV) and according to DIN 4701-10 can be designed with either 1 or 2 K proportional deviation.

Certified in conformity with EN 215.

The valve's pressure loss is factored in this chart.

The radiator's pressure loss comes from the chart for steel panel radiators.

VERTEO PLAN/VERTEO PROFIL WEIGHT, WATER CONTENT/PRESSURE LOSS CHART

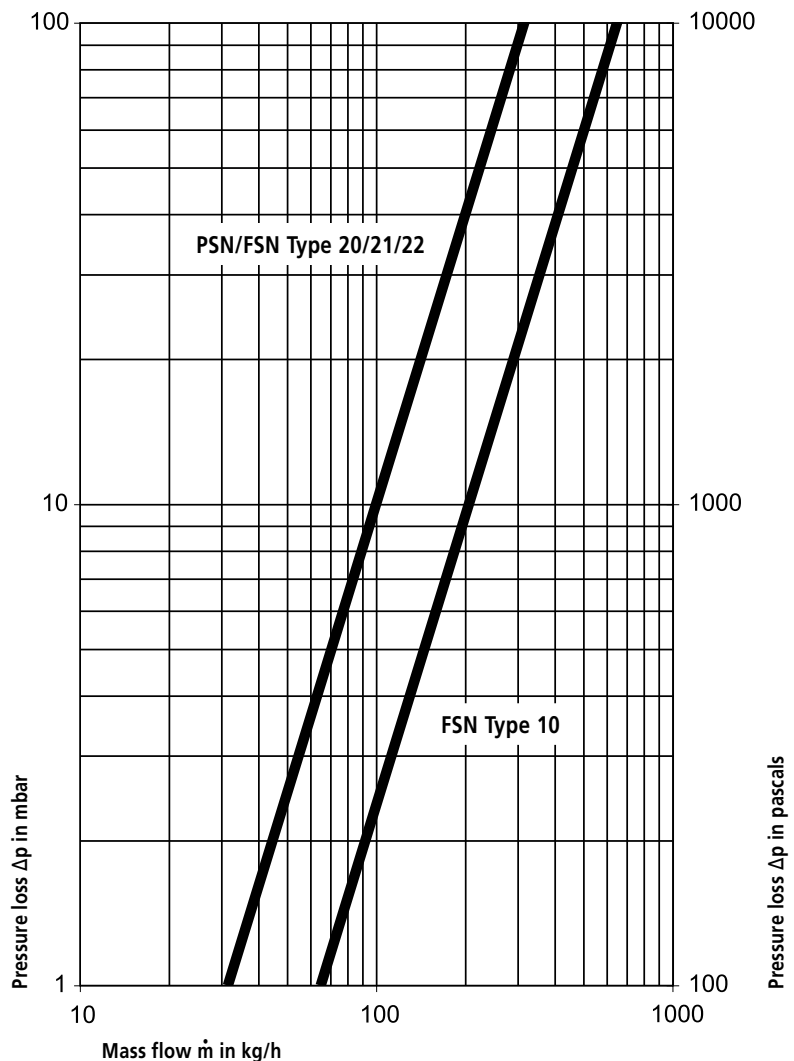
Verteo Plan

Length mm	Height mm	Type 20				Type 21				Type 22			
		1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
400	kg	32,36	36,21	40,05	43,89	35,27	40,57	44,42	48,26	39,19	46,03	49,96	53,89
	ltr	6,14	6,49	6,83	7,17	6,14	6,49	6,83	7,17	6,14	6,49	6,83	7,17
500	kg	39,63	44,38	49,12	53,86	43,51	50,2	54,94	59,69	48,4	57,11	61,94	66,77
	ltr	7,68	8,11	8,54	8,96	7,68	8,11	8,54	8,96	7,68	8,11	8,54	8,96
600	kg	46,9	52,54	58,19	63,83	51,75	59,82	65,47	71,11	57,61	68,19	73,92	79,65
	ltr	9,22	9,73	10,24	10,76	9,22	9,73	10,24	10,76	9,22	9,73	10,24	10,76
700	kg	54,17	60,71	67,26	73,8	60	69,45	75,99	82,54	66,82	79,27	85,9	92,53
	ltr	10,75	11,35	11,95	12,55	10,75	11,35	11,95	12,55	10,75	11,35	11,95	12,55

Verteo Profil

Length mm	Height mm	Type 10				Type 20				Type 21				Type 22			
		1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
400	kg	13,39	14,98	16,56	18,15	26,99	30,17	33,35	36,52	29,91	34,54	37,71	40,89	33,82	39,99	43,25	46,52
	ltr	3,07	3,24	3,41	3,59	6,14	6,49	6,83	7,17	6,14	6,49	6,83	7,17	6,14	6,49	6,83	7,17
500	kg	16,36	18,32	20,28	22,23	32,98	36,9	40,81	44,73	36,87	42,72	46,64	50,55	41,75	49,63	53,63	57,63
	ltr	3,84	4,05	4,27	4,48	7,68	8,11	8,54	8,96	7,68	8,11	8,54	8,96	7,68	8,11	8,54	8,96
600	kg	19,33	21,66	23,99	26,32	38,97	43,63	48,28	52,94	43,83	50,91	55,56	60,22	49,68	59,27	64,01	68,75
	ltr	4,61	4,86	5,12	5,38	9,22	9,73	10,24	10,76	9,22	9,73	10,24	10,76	9,22	9,73	10,24	10,76
700	kg	22,3	25	27,7	30,4	44,96	50,35	55,75	61,14	50,78	59,09	64,48	69,88	57,61	68,91	74,39	79,87
	ltr	5,38	5,68	5,97	6,27	10,75	11,35	11,95	12,55	10,75	11,35	11,95	12,55	10,75	11,35	11,95	12,55

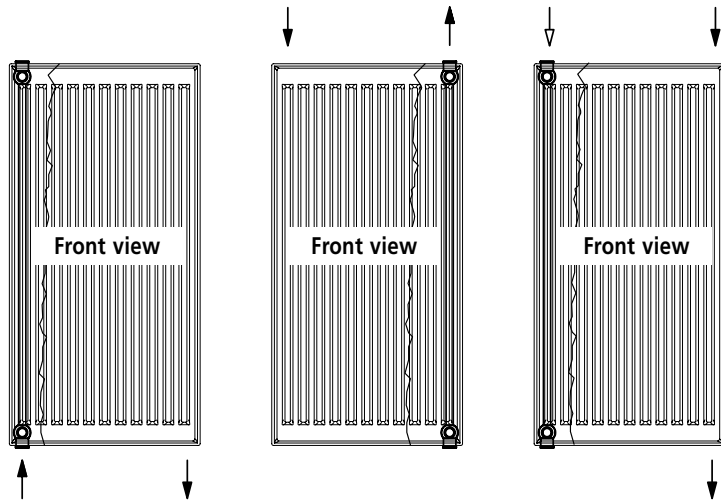
Verteo volume flow rate chart



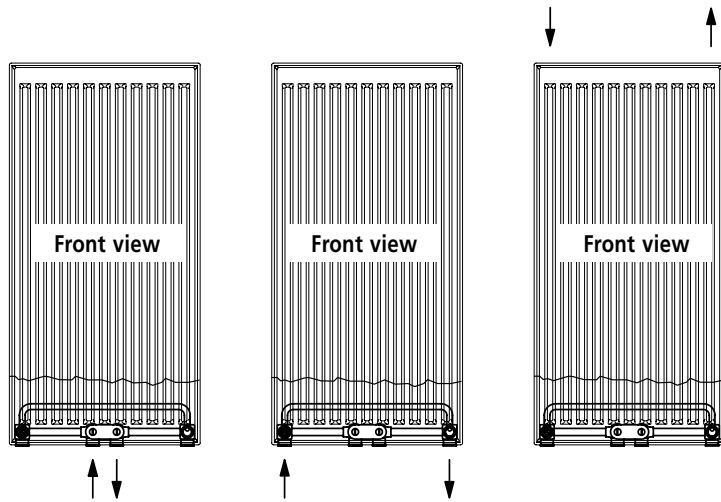
VERTEO PLAN/VERTEO PROFIL FITTING TYPES/FITTING DIMENSIONS

fitting types

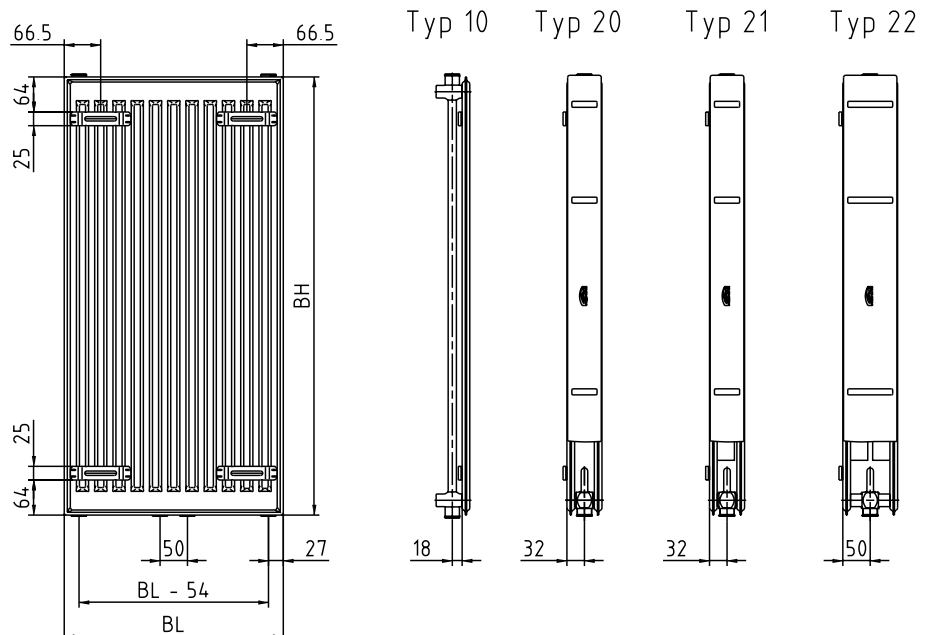
Type 10: 4 x 1/2" internal thread



Type 20, 21, 22: 6 x 1/2" internal thread



fitting dimensions



RADIATOR DESIGN

Rooms with discontinued heating according to DIN EN 12831

According to DIN EN 12831, max. permissible reheating times can be defined for reheating a room once heating has been discontinued.

The reheating time required thus determines the level of auxiliary heating load needed for this.

Reheating output (Φ_{RH}) according to DIN EN 12831, for rooms with discontinued heating, is calculated as follows:

$$\Phi_{RH} = A * f_{RH}$$

A = area [m²]

The reheating factor (f_{RH}) is to be taken from the standard's country-specific appendix.

The factor takes into account the reheating time, the building mass and the level of the assumed temperature drop during the drawdown phase.

The following results for the standard heating load (Φ_{HL}):

$$\Phi_{HL} = \Phi_{HL, net} + \Phi_{RH}$$

$$\Phi_{HL, net} = \Phi_T = \Phi_V$$

Φ_T = transmission heat loss

Φ_V = ventilation heat loss

Note: The reheating time and the additional heating output resulting from it must be agreed with the customer on a room-by-room basis if need be. You can find practice-oriented reheating times in the adjacent table: recommended reheating times.

The values that result from defining a particular reheating time for reheating factors (f_{RH} in [W/m²]) are to be taken from the tables of the country-specific appendix to EN 12831.

Reduced output is also to be taken into account in the case of recess installation and other rebuilds involving the radiator.

It is possible to work with the factory-provided tables when dealing with design temperatures of 70/55 and 55/45. At other design temperatures the heat output has to be converted using the following formula or using the simplified conversion table on the next page.

Heat output conversion

According to DIN EN 442 a flow temperature of 75° C, a return temperature of 65° C and an air temperature of 20° C form the basis of standard heat outputs. For other temperature ratios the outputs must be converted as per the following formula:

$$\Phi = \Phi_{SL} * \left(\frac{\Delta t_{ln}}{49.83} \right)^n$$

with: Φ = heat output of the radiator under operating conditions

Φ_{SL} = standard heat output of the radiator

Δt_{ln} = logarithmically averaged temperature rise

$$\Delta t_{ln} = \frac{t_V - t_R}{\ln \frac{t_V - t_L}{t_R - t_L}}$$

n = exponent of the space heater characteristic

RADIATOR DESIGN/CORRECTION VALUES

Conversion factors for irregular design temperatures for hot-water heating of pumps according to DIN EN 442; n = 1.3; calculated logarithmically.

Determining the heat output of a radiator for a customised system temperature ($t_V/t_R/t_L$) from given standard heat output at $\Delta T50$ (75/65/20)

Conversion formula:

$$\Phi_H = \frac{\Phi_S}{F}$$

Φ_H = heat output for customised system temperature
 Φ_S = standard heat output
 F = conversion factor

Example:

Given:
 - system temperature of the heating system $t_V/t_R/t_L = 55/45/20$
 - standard heat output of the radiator 1960 watts
 Wanted:
 - heat output of the radiator at $t_V/t_R/t_L = 55/45/20$

Solution:

$$\Phi_H = \frac{1960 \text{ watts}}{1.96} = 1000 \text{ watts}$$

A radiator with a standard heat output of 1960 watts while running at $t_V/t_R/t_L = 55/45/20$ provides an output of 1000 watts.

Conversion of a room's specified standard heating load to the standard heat output ($\Delta T50 - 75/65/20$) of a radiator for selecting the size of the radiator required.

Conversion formula:

$$\Phi_S = \Phi_{HL} * F$$

Φ_S = standard heat output
 Φ_{HL} = standard heating load
 F = conversion factor

Example:

Given:
 - the room's standard heating load 1000 watts
 - system temperature of the heating system ($t_V/t_R/t_L$) = 55/45/20
 Wanted:
 - heat output of the radiator ($\Delta T50 - 75/65/20$)

Solution:

$$\Phi_S = 1000 \text{ watts} * 1.96 = 1960 \text{ watts}$$

To cover the standard heating load of 1000 watts at $t_V/t_R/t_L = 55/45/20$ a radiator with an output of 1960 watts is to be selected from the table having the standard heat outputs ($\Delta T50 - 75/65/20$).

While running at $t_V/t_R/t_L = 55/45/20$ it thus provides the requisite heat output of 1000 watts.

t_V = flow temperature [°C]
 t_R = return temperature [°C]
 t_L = air temperature [°C]

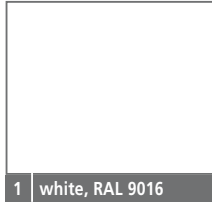
Design according to DIN EN 442

t_V flow temperature °C	t_R return temperature °C	t_L room temperature °C						
		10	12	15	18	20	22	24
110	90	0,47	0,48	0,50	0,53	0,54	0,56	0,58
	80	0,51	0,52	0,55	0,58	0,60	0,62	0,64
	70	0,56	0,58	0,61	0,64	0,67	0,69	0,72
	60	0,62	0,64	0,68	0,73	0,76	0,79	0,83
	50	0,70	0,73	0,78	0,84	0,89	0,94	0,99
105	40	0,82	0,86	0,94	1,02	1,09	1,17	1,26
	80	0,52	0,54	0,57	0,60	0,62	0,65	0,67
	70	0,58	0,60	0,63	0,67	0,69	0,72	0,76
	60	0,64	0,67	0,71	0,76	0,79	0,83	0,87
	50	0,73	0,76	0,82	0,88	0,93	0,98	1,04
100	40	0,85	0,90	0,98	1,07	1,14	1,23	1,33
	80	0,54	0,56	0,59	0,63	0,65	0,67	0,70
	70	0,60	0,62	0,66	0,70	0,72	0,76	0,79
	60	0,67	0,69	0,74	0,79	0,83	0,87	0,91
	55	0,71	0,74	0,79	0,85	0,89	0,94	0,99
95	50	0,76	0,79	0,85	0,92	0,97	1,03	1,09
	40	0,89	0,94	1,02	1,12	1,20	1,29	1,40
	70	0,62	0,65	0,68	0,73	0,76	0,79	0,83
	60	0,69	0,72	0,77	0,83	0,87	0,91	0,96
	55	0,74	0,77	0,83	0,89	0,93	0,99	1,04
90	50	0,79	0,83	0,89	0,96	1,02	1,08	1,15
	40	0,93	0,98	1,07	1,18	1,26	1,36	1,48
	80	0,59	0,61	0,64	0,68	0,71	0,74	0,77
	75	0,62	0,64	0,68	0,72	0,75	0,78	0,82
	70	0,65	0,67	0,72	0,76	0,80	0,83	0,87
85	65	0,68	0,71	0,76	0,81	0,85	0,89	0,93
	60	0,72	0,76	0,81	0,87	0,91	0,96	1,01
	55	0,77	0,81	0,87	0,93	0,98	1,04	1,10
	50	0,83	0,87	0,93	1,01	1,07	1,14	1,21
	75	0,64	0,67	0,71	0,75	0,79	0,82	0,86
80	70	0,68	0,70	0,75	0,80	0,84	0,88	0,92
	65	0,72	0,75	0,80	0,85	0,89	0,94	0,99
	60	0,76	0,79	0,85	0,91	0,96	1,01	1,07
	55	0,81	0,85	0,91	0,98	1,04	1,10	1,16
	50	0,87	0,91	0,98	1,07	1,13	1,21	1,29
75	70	0,71	0,74	0,79	0,84	0,88	0,93	0,97
	60	0,80	0,83	0,89	0,96	1,01	1,07	1,13
	50	0,91	0,96	1,04	1,13	1,20	1,28	1,37
	40	1,07	1,14	1,25	1,39	1,50	1,63	1,78
	65	0,79	0,82	0,88	0,95	1,00	1,05	1,12
70	60	0,84	0,88	0,94	1,02	1,08	1,14	1,21
	55	0,89	0,94	1,01	1,10	1,17	1,24	1,32
	50	0,96	1,01	1,10	1,20	1,28	1,37	1,47
	45	1,04	1,10	1,20	1,32	1,42	1,53	1,66
	60	0,88	0,93	1,00	1,08	1,15	1,22	1,30
65	55	0,94	0,99	1,08	1,17	1,25	1,33	1,42
	50	1,01	1,07	1,17	1,28	1,37	1,47	1,58
	45	1,10	1,16	1,28	1,42	1,52	1,65	1,79
	40	1,20	1,28	1,42	1,59	1,73	1,89	2,08
	55	1,00	1,05	1,15	1,26	1,34	1,43	1,54
60	50	1,08	1,14	1,25	1,37	1,47	1,59	1,71
	45	1,17	1,24	1,37	1,52	1,64	1,78	1,94
	40	1,28	1,37	1,52	1,71	1,87	2,05	2,27
	35	1,42	1,53	1,73	1,98	2,19	2,44	2,76
	55	1,07	1,13	1,23	1,36	1,45	1,56	1,68
55	50	1,15	1,22	1,34	1,48	1,60	1,73	1,87
	45	1,25	1,33	1,47	1,65	1,78	1,94	2,13
	40	1,37	1,47	1,64	1,86	2,03	2,24	2,50
	35	1,52	1,65	1,87	2,15	2,39	2,69	3,06
	30	1,73	1,89	2,19	2,59	2,96	3,44	4,13
50	50	1,23	1,31	1,45	1,62	1,75	1,90	2,07
	45	1,34	1,43	1,60	1,80	1,96	2,15	2,37
	40	1,47	1,59	1,78	2,03	2,24	2,48	2,78
	35	1,64	1,78	2,03	2,36	2,64	2,99	3,43
	30	1,87	2,05	2,39	2,86	3,29	3,86	4,67
45	45	1,45	1,56	1,75	1,98	2,17	2,40	2,67
	40	1,60	1,73	1,96	2,25	2,50	2,79	3,15
	35	1,78	1,94	2,24	2,63	2,96	3,38	3,92
	30	2,03	2,24	2,64	3,20	3,70	4,39	5,39
	40	1,75	1,90	2,17	2,53	2,83	3,19	3,66
40	35	1,96	2,15	2,50	2,96	3,37	3,89	4,58
	30	2,24	2,48	2,96	3,63	4,25	5,11	6,38
	30	2,17	2,40	2,83	3,41	3,93	4,62	5,54
40	30	2,50	2,79	3,37	4,21	5,01	6,14	7,87

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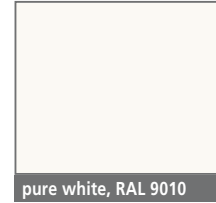
Kermi Hygienic

The number of illnesses caused by antibiotics-resistant bacteria continues to rise. And with it also the importance of hygiene in personal surroundings. Many of these infections occur due to contaminated surfaces.

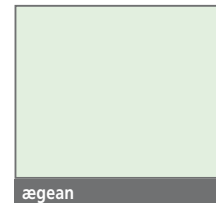
What hygienic conditions have already succeeded in optimising across many products, e.g. in the household appliances and sanitary sphere, Kermi has now put into practice in the radiator sector for the first time too: antimicrobial coating. It also prevents antibiotics-resistant bacteria and fungi from settling on radiator surfaces on a sustained basis and thus makes a valuable contribution to a clean and healthy environment.

Only available for delivery in hygiene version restricted to white, RAL 9016.

SANITARY COLOURS



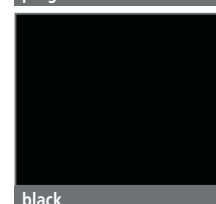
pure white, RAL 9010



ægean



pergamon



black

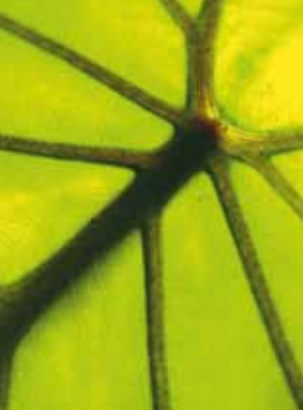


manhattan



bahama beige

SPECIAL EDITIONS

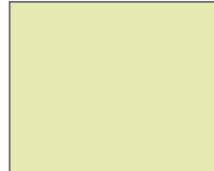


Edition Nature

The essential shades of nature. Fresh and expressive.



stone Nature



citrus Nature



maize Nature



tobacco Nature



atlantic Nature

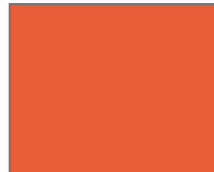


Edition Ethno

In greater demand than ever: The warm, vibrant shades of exotic cultures.



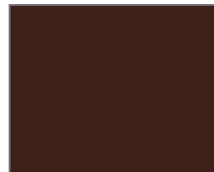
solaris Ethno



inca Ethno



carmine Ethno



terra Ethno

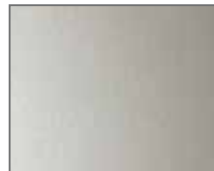


Edition Metallic

The glamorous retro trend of the '50s. Classically interpreted in brilliant metallic shades.



graphite Metallic



gloss silver Metallic *



zircon silver Metallic



matt bronze Metallic

Paint finish also possible in every RAL CLASSIC colour.

* Profil steel panel radiators not available in gloss silver.

Special editions: Please specify edition and colour number when ordering.
Sample order: colour stone, edition Nature.

Additional cost:
Hygienic: 30 %
sanitary colours: 20 %
edition Nature: 20 %
edition Ethno: 20 %
edition Metallic: 30 %
RAL CLASSIC: 30 %

Colour deviations are unavoidable for technical reasons.



Visit us on the internet at
www.kermi.com and find
out more about Kermi's
innovative products.



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