

Technical catalogue & price list column radiators Delta

PURMO
POLAND 2012



column radiators

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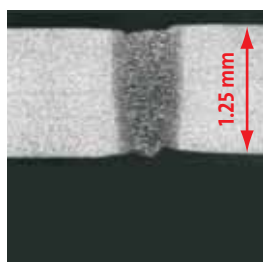
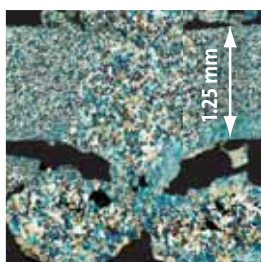
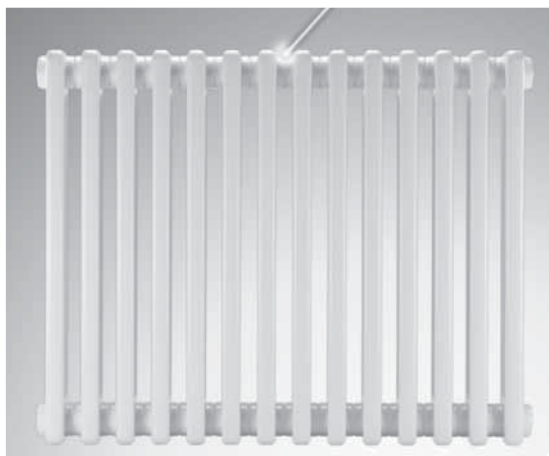


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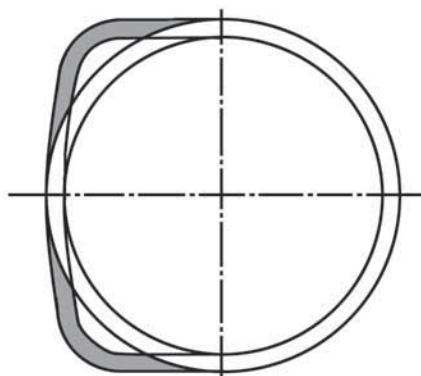
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column radiators



The comparison of joints welded traditionally (butt welding, enlarged on the left) with the perfect Delta Laserline radiator joint welded with state of the art laser technology (enlarged on the right).



"D"-profiled Delta Laserline radiator's columns, as compared with the traditional round column. The cross section shows the significantly larger column's diameter. Increased total surface area (marked gray) provides higher heat output of Delta Laserline radiators

product info

Thanks to the innovative technology combined with high-level esthetics of execution, Purmo's DELTA radiators will fulfill expectations of the most demanding Clients. One-of-its-kind laser welding method enables achievement of the perfect precision of execution, making the interconnections of individual DELTA segments virtually invisible.

The composition and shaping of DELTA radiators were especially intended to facilitate maintaining them spotlessly clean, which is a vital feature when considering health care facilities application. High suitability of Purmo's DELTA radiators for the rooms of elevated sanitary requirements is documented with the dedicated certificate, issued by the University of Kiel, Germany.

Remarkable precision of laser welding

Exceptional advantages of DELTA radiators originate in the production process – a world-unique laser welding technique.

This truly futuristic technology, invented by the researchers of the University of Stuttgart in cooperation with their colleagues of the Fraunhofer Institute, both in Germany, enables a highly precise processing of details, as well as total elimination of welding residue inside radiators, with no negative effect on perfect radiator's shaping. In contrast to traditionally welded radiators, a significantly more subtle joint on DELTA radiator's surface, together with the mentioned lack of welding residue, reduce to a large extent the risk of corrosion, as well as considerably prolong the radiators' life-span. At Purmo, we are so very much convinced of the highest quality and durability of the DELTA radiators that we do not hesitate to make them a subject of a 10-year-long warranty. Still, there is one more thing which makes Purmo's DELTAs so unique: our assembly line in Purmo's German production plant has been awarded a special federal Innovation Award of Thüringen.

It is a beautiful – but to tell the truth well-deserved – confirmation of how readily we in our company dedicate ourselves to develop modern technologies.

Review of features

- total laser welding ensures perfect appearance of the ready radiator, as well as outstanding quality, prolonged life-span (no welding joints disturbing the heating agent's flow, no welding residue inflicting corrosion)
- characteristic "D"-profiled columns, increasing heat output
- slender stub of the diameter of 1", connecting individual segments, common for all types
- connecting stub covers, welded as standard, for highly esthetic look and long-lasting safety
- 25 mm distancing between segments – with the length of each segment equal to 50 mm – facilitates cleaning and provides outstanding hygienic qualities
- wide choice of the radiator height, offered as standard
- at Client's wish, the possibility to offer any height of the radiator, in the range between 300 mm and 3000 mm, with 1 mm precision



	Delta Laserline	Delta Laserline Ventil	Delta Twin M	Delta Bar	Delta Column Bench	Delta Column Bench V
max. operating pressure [bar]	10	10	10	10	10	10
max. test pressure [bar]	13	13	13	13	13	13
max. temperature [°C]	120	120	120	120	120	120
side connection: G ½" - internal thread	x	—	—	—	—	—
bottom connection: G ½" - internal thread	x	x	x	x	x	x
brackets included with the radiator	—	—	x	x	x	x
in-built thermostatic valve	—	x	—	x	x	x

heat output of radiators

Heat output values of Delta radiators have been estimated in accordance with the PN-EN 442 standard, as based on the laboratory measurements. Temperature values of 75/65/20°C have been assumed as reference parameters.

For other parameters, heat output values of the radiators can be assessed with the following formula:

$$\phi = \phi_n \left[\frac{\Delta t}{\Delta t_n} \right]^n$$

where:

- ϕ - radiator's heat output [W]
- ϕ_n - heat output determined according to measurement results, in accordance with the PN-EN 442 standard [W]
- Δt - logarithmic temperature difference [K]
- Δt_n - logarithmic temperature difference 49.833 [K], calculated for reference temperatures of 75/65/20 °C
- n - exponent value, characteristic for each type of a radiator

Logarithmic temperature difference can be assessed with the following formula:

$$\Delta t = \frac{t_z - t_p}{\ln((t_z - t_i) / (t_p - t_i))}$$

where:

- t_z - radiator water supply temperature [°C]
- t_p - radiator water return temperature [°C]
- t_i - room temperature [°C]



Delta Laserline

height [mm]: 155, 265, 300, 350, 365, 400, 415, 450, 500, 550, 565, 600, 665, 750, 900, 965, 1000, 1065, 1100, 1200, 1500, 1800, 2000, 2200, 2500, 2800, 3000
(at Client's wish, each requested height of the radiator, in the range between 300 mm and 3000 mm, with 1 mm precision)

length [mm]: from 200 up to 2500 mm (from 4 up to 50 segments)

number of columns: from 2 up to 6



Delta Laserline Ventil

height [mm]: 155, 265, 300, 350, 365, 400, 415, 450, 500, 550, 565, 600, 665, 750, 900, 965, 1000, 1065, 1100, 1200, 1500, 1800, 2000, 2200, 2500, 2800, 3000
(at Client's wish, each requested height of the radiator, in the range between 300 mm and 3000 mm, with 1 mm precision)

length [mm]: from 200 up to 2500 mm (from 4 up to 50 segments)

number of columns: from 2 up to 6



Delta Twin M

height [mm]: 1000, 1200, 1500, 1800, 2000

length [mm]: 500 (10 segments), 600 (12 segments)

number of columns: 2



Delta Bar

height [mm]:	940 (750)*, 1090 (900)*
length [mm]:	720 (700)*, 920 (900)*, 1120 (1100)*
number of columns:	4 or 5
number of segments:	14, 18, 22

Note:
The dimensions given above do not include top boards.
* - dimension of the radiator only



Delta Column Bench

height [mm]:	387 (200)*, 437 (250)*, 487 (300)*, 537 (350)*
length [mm]:	1535 (1500)*, 1835 (1800)*, 2035 (2000)*, 2535 (2500)*, 2835 (2800)*
number of columns:	6
number of segments:	4, 5, 6, 7

Note:
The dimensions given above do not include top boards.
* - dimension of the radiator only



Delta Column Bench V

height [mm]:	490 (300)*, 540 (350)*
length [mm]:	1100 (1000)*, 1300 (1200)*, 1500 (1400)*
number of columns:	4 or 5
number of segments:	20, 24, 28

Note:
The dimensions given above do not include top boards.
* - dimension of the radiator only

column radiators



Delta Laserline

product info

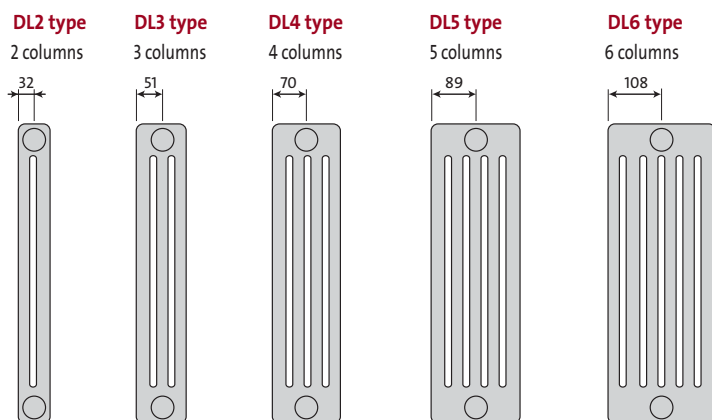
Purmo's Delta Laserline column radiators integrate the state of the art technology with remarkable design, providing their Users with highest qualities of climate comfort and functionality. The world-unique laser welding method enables achievement of the perfect quality of execution combined with outstanding visual appearance. The characteristic feature – which inspired the radiators' name – is the external shape of the columns, of the profile resembling the letter "D", designed especially to maximize the heating surface area in comparison with analogical columns of the round shape.

The construction and shape of the Delta radiators have been so designed as to facilitate maintaining them spotlessly clean, which is a vital feature when considering health care facilities application. High suitability of Purmo's DELTA radiators for the rooms of elevated sanitary requirements is documented with the dedicated certificate, issued by the University of Kiel, Germany.

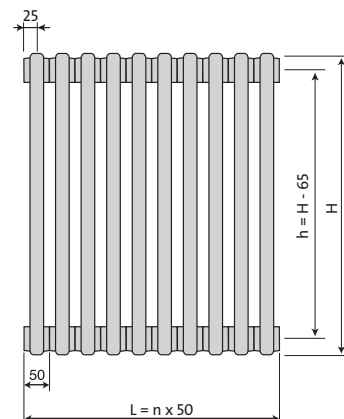
Except for 27 radiator heights available as standard, at Clients' wish any height can be manufactured in the range between 300 mm and 3000 mm, with the precision of 1 mm. Thanks to five types of the radiator's segments (from 2 up to 6 columns), and a wide palette of RAL colours, the Delta Laserline radiators can be easily suited to any room, independently on the heat requirements or the Users' preferences.



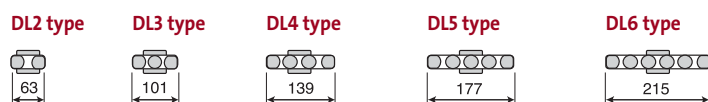
side views



front view



cross section views



H - overall height
h - connectors' spacing
L - overall length
n - number of segments

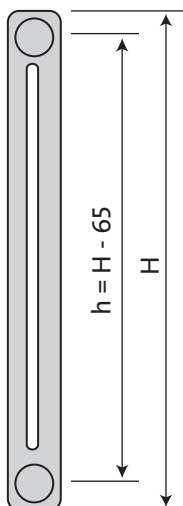
technical data

- Description : decorative column radiator, totally laser-welded. Delta-profiled cross section of the external columns for the maximized heat output.
- Height : from 155 mm up to 3000 mm, the height of the selected models matches the connecting stubs' spacing of the old-fashioned cast-iron radiators. At Clients' wish, each requested height of the radiator can be delivered, in the range between 300 mm and 3000 mm, with 1 mm precision.
- Length : from 200 mm up to 2500 mm (from 4 up to 50 segments). Depending on the radiators' types and sizes, possible integration on one side up to the length of 2000 mm (according to the relevant table). In other cases, the radiators are delivered in separate blocks – plugs, connecting nipples and gaskets inclusive – for self-assembly on the building site; length tolerance: from 0% up to +1%.
- Depth :

2-columned:	63 mm
3-columned:	101 mm
4-columned:	139 mm
5-columned:	177 mm
6-columned:	215 mm
- Connection : when ordering, please provide the information on the connection variant, conforming to the relevant option (**see page 12**)
- Delivery range : radiator delivered without brackets – to be ordered separately, depending on the radiator's type and size
- Brackets : see: accessories, plug and air vent included with brackets
- Colour : as standard snow-white RAL 9016 varnish, other RAL colours at request
- Operating pressure : 10 bars
- Test pressure : 13 bars
- Max. temperature : 120°C
- Packaging : packed for transport in environmental friendly, edge-protecting packaging, welded in foil.

spacing of the connecting stubs h

e.g. DL2 type



H [mm]	h [mm]
155	90
265	200
300	235
350	285
365	300
400	335
415	350
450	385
500	435
550	485
565	500
600	535
665	600
750	685

H [mm]	h [mm]
900	835
965	900
1000	935
1065	1000
1100	1035
1200	1135
1500	1435
1800	1735
2000	1935
2200	2135
2500	2435
2800	2735
3000	2935

H - overall height

max. number of segments in one block

	number of columns				
H [mm]	2	3	4	5	6
155	40	40	40	40	40
265	-	-	-	-	40
300	40	40	40	40	40
350	40	40	40	40	40
365	-	40	40	40	40
400	40	40	40	40	40
415	-	40	40	-	40
450	40	40	40	40	40
500	40	40	40	40	35
550	40	40	40	40	35
565	40	40	40	40	35
600	40	40	40	40	35
665	40	40	40	35	30
750	40	40	40	30	25

	number of columns				
H [mm]	2	3	4	5	6
900	40	40	30	25	20
965	40	40	30	-	20
1000	40	40	30	25	20
1065	-	19	19	19	16
1100	19	19	19	19	15
1200	19	19	19	19	15
1500	19	19	19	15	13
1800	19	19	14	10	10
2000	19	19	14	10	10
2200	19	19	14	10	8
2500	19	14	10	10	8
2800	19	14	10	8	7
3000	19	14	10	8	7

NOTE

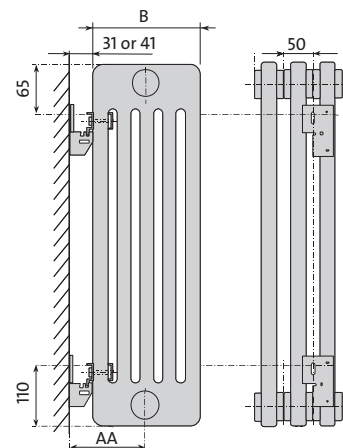
When ordering the Delta Laserline or Delta Laserline Ventil radiators of the higher number of segments in one block than given in the table above, the delivery will be divided into 2 or more blocks, to be integrated on the Client's building site. Connectors and gaskets are included with the blocks at no extra cost. Assembling the blocks together requires the application of the dedicated nipple wrench, **see page 61**, to be ordered separately!

mounting distances

for the wall support kit, angle type

cat. no D952-2231, D952-2331, D952-2232, D952-2332

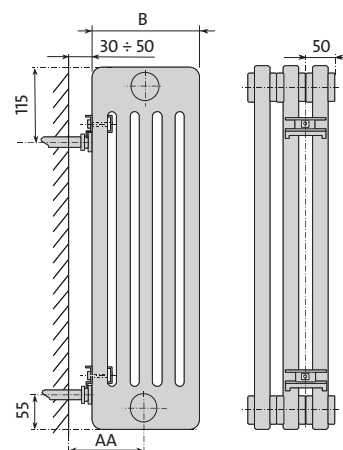
type	radiator's depth B [mm]	wall distancing WA [mm]	connectors' wall distancing AA [mm]
2 columns	63	31 or 41	63 or 73
3 columns	101	31 or 41	82 or 92
4 columns	139	31 or 41	101 or 111
5 columns	177	31 or 41	120 or 130
6 columns	215	31 or 41	139 or 149



for the wall bracket kit

cat. no D952-2233, D952-2334

type	radiator's depth B [mm]	wall distancing WA [mm]	connectors' wall distancing AA [mm]
2 columns	63	30 ÷ 50	62 ÷ 82
3 columns	101	30 ÷ 50	81 ÷ 101
4 columns	139	30 ÷ 50	100 ÷ 120
5 columns	177	30 ÷ 50	119 ÷ 139
6 columns	215	30 ÷ 50	138 ÷ 158



Brackets

Brackets are not included as standard in the radiator's kit.

In the standard execution, the Delta Laserline and Delta Laserline Ventil radiators are not equipped with welded-on brackets. Depending on the type and size of the radiator, select the proper quantity and type of the brackets, and order them separately. As standard solution for the radiators without welded-on brackets, the mounting kits are available with angle supports or drilled-in brackets. The kits consist of the adequate number and type of supports or brackets (4- or 6 element kits), radiator brackets, necessary bolts and wall plugs (each time they must be checked whether suitable, directly on the Client's building site!), air vent, plug and mounting instructions.*

It is recommended to mount the higher radiator brackets directly below the upper connecting stub.

At special orders, the delivery of in-drilled supports is possible, as well as the wall supports manufactured in non-standard variants, for mounting the radiators which are factory equipped with welded-on mounting brackets.

When selecting the required number of brackets (as based on the nomograms), it is necessary to keep to the quantity of obligatory points of suspension. Each upper point of suspension (recommended positioning – directly below the connecting stub) and each bottom point of suspension create the vertical suspension axis.

It is necessary to check every time the load and stability of the walls for the added weight resulting from mounting the selected type of the radiator.

Floor-level mounting of the 300 mm up to 1000 mm high radiators can be performed with SK2 floor stands with adjustable mounting height from the floor level. For each existing suspension axis one floor stand is recommended.

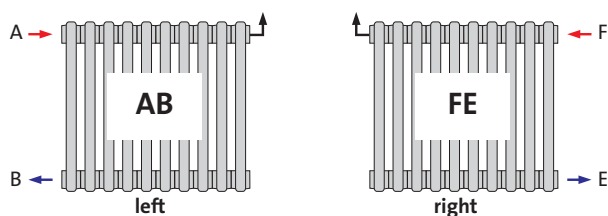
As standard, Delta Laserline radiators are delivered **without** welded-on brackets, which contributes to their versatility, as they can be rotated. **No welded-on** bracket radiators, regardless of the "right" or "left"-hand side mounting, can then always be ordered in the left-hand side supply variant.

* Note: the 155 mm high radiator can only be mounted with floor supports with FK4 ring anchor or WK155 wall supports.

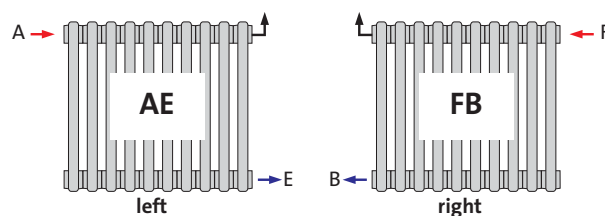
how to connect

As standard, Delta Laserline radiators are equipped with connectors with internal thread G1 1/2":

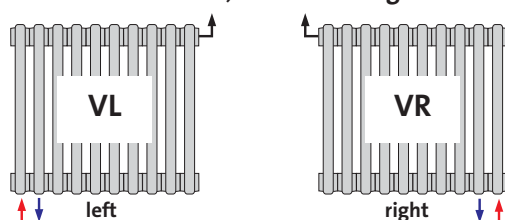
single-sided side connection



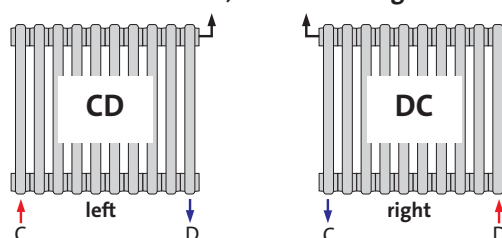
side crossed connection



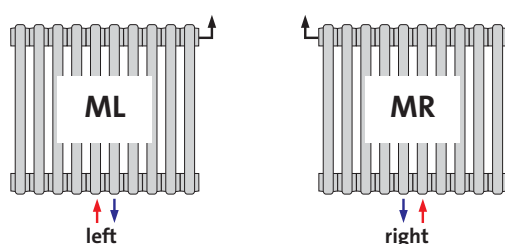
bottom connection, 1st and 2nd segment



bottom connection, 1st and last segment



bottom connection, middle only even number of segments!

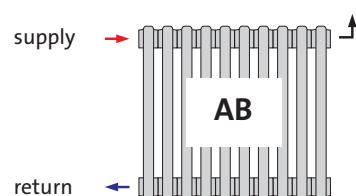


Tip

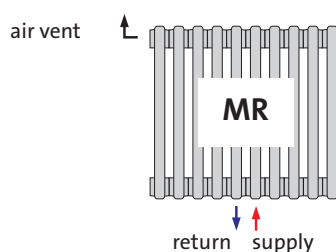
Always provide the information about the connection variant, when ordering!

example

AB connection variant (single-sided, left)



MR connection variant (middle, right)



surcharges

description	colour	cat. no	price [PLN]
 Delta Laserline radiator, bottom connection, variants: VL, VR, CD, DC, ML, MR	RAL 9016		catalogue price (see pages 13 – 39) plus PLN 250

Delta Laserline height 155 mm*

column radiators

* mounting only with FK4 ring anchor stands or WK155 wall supports.

H [mm]	155*				
number of columns B [mm] type	2 63 DL2016..	3 101 DL3016..	4 139 DL4016..	5 177 DL5016..	6 215 DL6016..
PLN/segment	55	59	67	80	93
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	220 51 41	236 70 57	268 91 74	320 115 93	372 139 113
5 250	275 63 52	295 88 71	335 114 93	400 144 116	465 174 141
6 300	330 76 62	354 105 85	402 137 111	480 172 140	558 209 169
7 350	385 89 72	413 123 100	469 160 130	560 201 163	651 244 198
8 400	440 101 82	472 140 114	536 183 148	640 230 186	744 278 226
9 450	495 114 93	531 158 128	603 205 167	720 258 209	837 313 254
10 500	550 127 103	590 175 142	670 228 186	800 287 233	930 348 282
11 550	605 139 113	649 193 157	737 251 204	880 316 256	1023 383 310
12 600	660 152 124	708 210 171	804 274 223	960 345 279	1116 418 339
13 650	715 165 134	767 228 188	871 297 241	1040 373 302	1209 452 367
14 700	770 177 144	826 245 199	938 320 260	1120 402 326	1302 487 395
15 750	825 190 155	885 263 213	1005 342 278	1200 431 349	1395 522 423
16 800	880 203 165	944 280 228	1072 365 297	1280 459 372	1488 557 451
17 850	935 215 175	1003 298 242	1139 388 315	1360 488 395	1581 592 480
18 900	990 228 186	1062 315 256	1206 411 334	1440 517 419	1674 626 508
19 950	1045 241 196	1121 333 270	1273 434 353	1520 545 442	1767 661 536
20 1000	1100 253 206	1180 350 285	1340 457 371	1600 574 465	1860 696 564
21 1050	1155 266 216	1239 368 299	1407 479 390	1680 603 488	1953 731 593
22 1100	1210 279 227	1298 385 313	1474 502 408	1760 632 512	2046 766 621
23 1150	1265 291 237	1357 403 327	1541 525 427	1840 660 535	2139 800 649
24 1200	1320 304 247	1416 420 341	1608 548 445	1920 689 558	2232 835 677
25 1250	1375 317 258	1475 438 356	1675 571 464	2000 718 581	2325 870 705
26 1300	1430 329 268	1534 455 370	1742 594 482	2080 746 605	2418 905 734
27 1350	1485 342 278	1593 473 384	1809 616 501	2160 775 628	2511 940 762

H [mm]	155*				
number of columns B [mm] type	2 63 DL2016..	3 101 DL3016..	4 139 DL4016..	5 177 DL5016..	6 215 DL6016..
PLN/segment	55	59	67	80	93
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1540 354 289	1652 490 398	1876 639 520	2240 804 651	2604 974 790
29 1450	1595 367 299	1711 508 413	1943 662 538	2320 833 674	2697 1009 818
30 1500	1650 380 309	1770 525 427	2010 685 557	2400 861 698	2790 1044 846
31 1550	1705 392 320	1829 543 441	2077 708 575	2480 890 721	2883 1079 875
32 1600	1760 405 330	1888 560 455	2144 731 594	2560 919 744	2976 1114 903
33 1650	1815 418 340	1947 578 470	2211 753 612	2640 947 767	3069 1148 931
34 1700	1870 430 350	2006 595 484	2278 776 631	2720 976 791	3162 1183 959
35 1750	1925 443 361	2065 613 498	2345 799 649	2800 1005 814	3255 1218 988
36 1800	1980 456 371	2124 630 512	2412 822 668	2880 1034 837	3348 1253 1016
37 1850	2035 468 381	2183 648 526	2479 845 686	2960 1062 861	3441 1288 1044
38 1900	2090 481 392	2242 665 541	2546 868 705	3040 1091 884	3534 1322 1072
39 1950	2145 494 402	2301 683 555	2613 890 724	3120 1120 907	3627 1357 1100
40 2000	2200 506 412	2360 700 569	2680 913 742	3200 1148 930	3720 1392 1129
41 2050	2255 519 423	2419 718 583	2747 936 761	3280 1177 954	3813 1427 1157
42 2100	2310 532 433	2478 735 598	2814 959 779	3360 1206 977	3906 1462 1185
43 2150	2365 544 443	2537 753 612	2881 982 798	3440 1235 1000	3999 1496 1213
44 2200	2420 557 453	2596 770 626	2948 1005 816	3520 1263 1023	4092 1531 1242
45 2250	2475 570 464	2655 788 640	3015 1027 835	3600 1292 1047	4185 1566 1270
46 2300	2530 582 474	2714 805 655	3082 1050 853	3680 1321 1070	4278 1601 1298
47 2350	2585 595 484	2773 823 669	3149 1073 872	3760 1349 1093	4371 1636 1326
48 2400	2640 608 495	2832 840 683	3216 1096 891	3840 1378 1116	4464 1670 1354
49 2450	2695 620 505	2891 858 697	3283 1119 909	3920 1407 1140	4557 1705 1383
50 2500	2750 633 515	2950 876 711	3350 1142 928	4000 1436 1163	4650 1740 1411

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	7	9	12	15	18
n value	1.2120	1.2227	1.2222	1.2413	1.2359
weight [kg/segment]	0.30	0.45	0.61	0.76	0.93
cap. [l/segment]	0.27	0.39	0.51	0.63	0.75

	7	9	12	15	18
	1.2120	1.2227	1.2222	1.2413	1.2359
	0.30	0.45	0.61	0.76	0.93
	0.27	0.39	0.51	0.63	0.75

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 220 51 41 — [W] 75/65/20°C
— [W] 70/55/20°C

H [mm]	265				
number of columns B [mm] type					6 215 DL6027..
PLN/segment					109
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200					436 ²³² ₁₈₈
5 250					545 ²⁹⁰ ₂₃₅
6 300					654 ³⁴⁸ ₂₈₂
7 350					763 ⁴⁰⁶ ₃₂₉
8 400					872 ⁴⁶⁴ ₃₇₆
9 450					981 ⁵²² ₄₂₃
10 500					1090 ⁵⁸⁰ ₄₇₀
11 550					1199 ⁶³⁸ ₅₁₇
12 600					1308 ⁶⁹⁶ ₅₆₄
13 650					1417 ⁷⁵⁴ ₆₁₁
14 700					1526 ⁸¹² ₆₅₈
15 750					1635 ⁸⁷⁰ ₇₀₆
16 800					1744 ⁹²⁸ ₇₅₃
17 850					1853 ⁹⁸⁶ ₈₀₀
18 900					1962 ¹⁰⁴⁴ ₈₄₇
19 950					2071 ¹¹⁰² ₈₉₄
20 1000					2180 ¹¹⁶⁰ ₉₄₁
21 1050					2289 ¹²¹⁸ ₉₈₈
22 1100					2398 ¹²⁷⁶ ₁₀₃₅
23 1150					2507 ¹³³⁴ ₁₀₈₂
24 1200					2616 ¹³⁹² ₁₁₂₉
25 1250					2725 ¹⁴⁵⁰ ₁₁₇₆
26 1300					2834 ¹⁵⁰⁸ ₁₂₂₃
27 1350					2943 ¹⁵⁶⁶ ₁₂₇₀

	265				
					6 215 DL6027..
					109
	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400					3052 ¹⁶²⁴ ₁₃₁₇
29 1450					3161 ¹⁶⁸² ₁₃₆₄
30 1500					3270 ¹⁷⁴⁰ ₁₄₁₁
31 1550					3379 ¹⁷⁹⁸ ₁₄₅₈
32 1600					3488 ¹⁸⁵⁶ ₁₅₀₅
33 1650					3597 ¹⁹¹⁴ ₁₅₅₂
34 1700					3706 ¹⁹⁷² ₁₅₉₉
35 1750					3815 ²⁰³⁰ ₁₆₄₆
36 1800					3924 ²⁰⁸⁸ ₁₆₉₃
37 1850					4033 ²¹⁴⁶ ₁₇₄₀
38 1900					4142 ²²⁰⁴ ₁₇₈₇
39 1950					4251 ²²⁶² ₁₈₃₄
40 2000					4360 ²³²⁰ ₁₈₈₁
41 2050					4469 ²³⁷⁸ ₁₉₂₈
42 2100					4578 ²⁴³⁶ ₁₉₇₅
43 2150					4687 ²⁴⁹⁴ ₂₀₂₂
44 2200					4796 ²⁵⁵² ₂₀₆₉
45 2250					4905 ²⁶¹⁰ ₂₁₁₇
46 2300					5014 ²⁶⁶⁸ ₂₁₆₄
47 2350					5123 ²⁷²⁶ ₂₂₁₁
48 2400					5232 ²⁷⁸⁴ ₂₂₅₈
49 2450					5341 ²⁸⁴² ₂₃₀₅
50 2500					5450 ²⁹⁰⁰ ₂₃₅₂

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C					18
n value					1.2350
weight [kg/segment]					1.41
cap. [l/segment]					1.03

					18
					1.2350
					1.41
					1.03

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 300 mm

column radiators

H [mm]	300				
number of columns B [mm] type	2 63 DL2030..	3 101 DL3030..	4 139 DL4030..	5 177 DL5030..	6 215 DL6030..
PLN/segment	56	61	68	81	94
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	224 101 82	244 142 115	272 182 148	324 224 181	376 266 215
5 250	280 126 103	305 177 144	340 228 185	405 280 227	470 332 268
6 300	336 151 123	366 212 172	408 273 222	486 336 272	564 398 322
7 350	392 177 144	427 248 201	476 319 259	567 392 317	658 465 376
8 400	448 202 164	488 283 230	544 364 296	648 448 363	752 531 429
9 450	504 227 185	549 319 259	612 410 333	729 504 408	846 598 483
10 500	560 252 205	610 354 287	680 456 370	810 560 453	940 664 537
11 550	616 278 226	671 389 316	748 501 407	891 616 499	1034 730 590
12 600	672 303 246	732 425 345	816 547 444	972 672 544	1128 797 644
13 650	728 328 267	793 460 374	884 592 481	1053 728 590	1222 863 698
14 700	784 353 287	854 496 402	952 638 518	1134 784 635	1316 929 752
15 750	840 379 308	915 531 431	1020 683 555	1215 840 680	1410 996 805
16 800	896 404 328	976 566 460	1088 729 592	1296 896 726	1504 1062 859
17 850	952 429 349	1037 602 489	1156 775 629	1377 952 771	1598 1129 913
18 900	1008 454 369	1098 637 517	1224 820 666	1458 1008 816	1692 1195 966
19 950	1064 480 390	1159 673 546	1292 866 703	1539 1064 862	1786 1261 1020
20 1000	1120 505 410	1220 708 575	1360 911 740	1620 1120 907	1880 1328 1074
21 1050	1176 530 431	1281 743 604	1428 957 777	1701 1176 952	1974 1394 1127
22 1100	1232 555 451	1342 779 632	1496 1002 814	1782 1232 998	2068 1461 1181
23 1150	1288 581 472	1403 814 661	1564 1048 851	1863 1288 1043	2162 1527 1235
24 1200	1344 606 492	1464 850 690	1632 1093 887	1944 1344 1088	2256 1593 1288
25 1250	1400 631 513	1525 885 719	1700 1139 924	2025 1400 1134	2350 1660 1342
26 1300	1456 656 533	1586 920 747	1768 1185 961	2106 1455 1179	2444 1726 1396
27 1350	1512 681 554	1647 956 776	1836 1230 998	2187 1511 1224	2538 1793 1449

H [mm]	300				
number of columns B [mm] type	2 63 DL2030..	3 101 DL3030..	4 139 DL4030..	5 177 DL5030..	6 215 DL6030..
PLN/segment	56	61	68	81	94
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1568 707 574	1708 991 805	1904 1276 1035	2268 1567 1270	2632 1859 1503
29 1450	1624 732 595	1769 1027 834	1972 1321 1072	2349 1623 1315	2726 1925 1557
30 1500	1680 757 615	1830 1062 862	2040 1367 1109	2430 1679 1360	2820 1992 1610
31 1550	1736 782 636	1891 1097 891	2108 1412 1146	2511 1735 1406	2914 2058 1664
32 1600	1792 808 656	1952 1133 920	2176 1458 1183	2592 1791 1451	3008 2124 1718
33 1650	1848 833 677	2013 1168 949	2244 1503 1220	2673 1847 1497	3102 2191 1771
34 1700	1904 858 697	2074 1204 977	2312 1549 1257	2754 1903 1542	3196 2257 1825
35 1750	1960 883 718	2135 1239 1006	2380 1595 1294	2835 1959 1587	3290 2324 1879
36 1800	2016 909 738	2196 1274 1035	2448 1640 1331	2916 2015 1633	3384 2390 1932
37 1850	2072 934 759	2257 1310 1064	2516 1686 1368	2997 2071 1678	3478 2456 1986
38 1900	2128 959 779	2318 1345 1092	2584 1731 1405	3078 2127 1723	3572 2523 2040
39 1950	2184 984 800	2379 1381 1121	2652 1777 1442	3159 2183 1769	3666 2589 2094
40 2000	2240 1010 820	2440 1416 1150	2720 1822 1479	3240 2239 1814	3760 2656 2147
41 2050	2296 1035 841	2501 1451 1179	2788 1868 1516	3321 2295 1859	3854 2722 2201
42 2100	2352 1060 861	2562 1487 1207	2856 1914 1553	3402 2351 1905	3948 2788 2255
43 2150	2408 1085 882	2623 1522 1236	2924 1959 1590	3483 2407 1950	4042 2855 2308
44 2200	2464 1111 902	2684 1558 1265	2992 2005 1627	3564 2463 1995	4136 2921 2362
45 2250	2520 1136 923	2745 1593 1294	3060 2050 1664	3645 2519 2041	4230 2988 2416
46 2300	2576 1161 943	2806 1628 1322	3128 2096 1701	3726 2575 2086	4324 3054 2469
47 2350	2632 1186 964	2867 1664 1351	3196 2141 1738	3807 2631 2131	4418 3120 2523
48 2400	2688 1212 984	2928 1699 1380	3264 2187 1775	3888 2687 2177	4512 3187 2577
49 2450	2744 1237 1005	2989 1735 1409	3332 2232 1812	3969 2743 2222	4606 3253 2630
50 2500	2800 1262 1025	3050 1770 1437	3400 2278 1849	4050 2799 2267	4700 3320 2684

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	13	19	24	29	35
n value	1.2243	1.2270	1.2297	1.2410	1.2523
weight [kg/segment]	0.52	0.78	1.05	1.30	1.57
cap. [l/segment]	0.40	0.57	0.75	0.93	1.11

	13	19	24	29	35
	1.2243	1.2270	1.2297	1.2410	1.2523
	0.52	0.78	1.05	1.30	1.57
	0.40	0.57	0.75	0.93	1.11

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 224 101 — [W] 75/65/20°C
82 — [W] 70/55/20°C

H [mm]	350				
number of columns B [mm] type	2 63 DL2035..	3 101 DL3035..	4 139 DL4035..	5 177 DL5035..	6 215 DL6035..
PLN/segment	57	62	70	83	97
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	228 116 94	248 162 131	280 208 169	332 256 207	388 304 245
5 250	285 145 118	310 203 164	350 260 211	415 320 259	485 380 307
6 300	342 174 141	372 243 197	420 312 253	498 384 311	582 456 368
7 350	399 203 165	434 284 230	490 364 295	581 448 362	679 532 429
8 400	456 232 188	496 324 263	560 416 337	664 512 414	776 607 491
9 450	513 261 212	558 365 296	630 468 380	747 576 466	873 683 552
10 500	570 290 235	620 405 329	700 520 422	830 640 518	970 759 613
11 550	627 319 259	682 446 361	770 572 464	913 704 569	1067 835 675
12 600	684 348 282	744 486 394	840 624 506	996 768 621	1164 911 736
13 650	741 376 306	806 527 427	910 677 548	1079 832 673	1261 987 797
14 700	798 405 329	868 567 460	980 729 590	1162 896 725	1358 1063 859
15 750	855 434 353	930 608 493	1050 781 633	1245 960 777	1455 1139 920
16 800	912 463 376	992 648 526	1120 833 675	1328 1024 828	1552 1215 981
17 850	969 492 400	1054 689 559	1190 885 717	1411 1088 880	1649 1291 1043
18 900	1026 521 423	1116 729 591	1260 937 759	1494 1152 932	1746 1367 1104
19 950	1083 550 447	1178 770 624	1330 989 801	1577 1216 984	1843 1443 1165
20 1000	1140 579 470	1240 810 657	1400 1041 843	1660 1280 1035	1940 1519 1227
21 1050	1197 608 494	1302 851 690	1470 1093 886	1743 1344 1087	2037 1595 1288
22 1100	1254 637 517	1364 891 723	1540 1145 928	1826 1408 1139	2134 1670 1349
23 1150	1311 666 541	1426 932 756	1610 1197 970	1909 1472 1191	2231 1746 1411
24 1200	1368 695 564	1488 978 788	1680 1249 1012	1992 1536 1242	2328 1822 1472
25 1250	1425 724 588	1550 1013 821	1750 1301 1054	2075 1600 1294	2425 1898 1533
26 1300	1482 753 611	1612 1053 854	1820 1353 1096	2158 1664 1346	2522 1974 1595
27 1350	1539 782 635	1674 1094 887	1890 1405 1139	2241 1728 1398	2619 2050 1656

H [mm]	350				
number of columns B [mm] type	2 63 DL2035..	3 101 DL3035..	4 139 DL4035..	5 177 DL5035..	6 215 DL6035..
PLN/segment	57	62	70	83	97
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1596 811 658	1736 1134 920	1960 1457 1181	2324 1792 1450	2716 2126 1717
29 1450	1653 840 682	1798 1175 953	2030 1509 1223	2407 1856 1501	2813 2202 1779
30 1500	1710 869 706	1860 1215 986	2100 1561 1265	2490 1920 1553	2910 2278 1840
31 1550	1767 898 729	1922 1256 1018	2170 1613 1307	2573 1984 1605	3007 2354 1901
32 1600	1824 927 753	1984 1296 1051	2240 1665 1350	2656 2048 1657	3104 2430 1963
33 1650	1881 956 776	2046 1337 1084	2310 1717 1392	2739 2112 1708	3201 2506 2024
34 1700	1938 985 800	2108 1377 1117	2380 1769 1434	2822 2176 1760	3298 2582 2085
35 1750	1995 1014 823	2170 1418 1150	2450 1821 1476	2905 2240 1812	3395 2658 2146
36 1800	2052 1043 847	2232 1458 1183	2520 1873 1518	2988 2304 1864	3492 2733 2208
37 1850	2109 1072 870	2294 1499 1216	2590 1925 1560	3071 2368 1915	3589 2809 2269
38 1900	2166 1100 894	2356 1539 1248	2660 1978 1603	3154 2432 1967	3686 2885 2330
39 1950	2223 1129 917	2418 1580 1281	2730 2030 1645	3237 2496 2019	3783 2961 2392
40 2000	2280 1158 941	2480 1620 1314	2800 2082 1687	3320 2560 2071	3880 3037 2453
41 2050	2337 1187 964	2542 1661 1347	2870 2134 1729	3403 2624 2123	3977 3113 2514
42 2100	2394 1216 988	2604 1701 1380	2940 2186 1771	3486 2688 2174	4074 3189 2576
43 2150	2451 1245 1011	2666 1742 1413	3010 2238 1813	3569 2752 2226	4171 3265 2637
44 2200	2508 1274 1035	2728 1782 1446	3080 2290 1856	3652 2816 2278	4268 3341 2698
45 2250	2565 1303 1058	2790 1823 1478	3150 2342 1898	3735 2880 2330	4365 3417 2760
46 2300	2622 1332 1082	2852 1863 1511	3220 2394 1940	3818 2944 2381	4462 3493 2821
47 2350	2679 1361 1105	2914 1904 1544	3290 2446 1982	3901 3008 2433	4559 3569 2882
48 2400	2736 1390 1129	2976 1944 1577	3360 2498 2024	3984 3072 2485	4656 3645 2944
49 2450	2793 1419 1152	3038 1985 1610	3430 2550 2066	4067 3136 2537	4753 3721 3005
50 2500	2850 1448 1176	3100 2025 1643	3500 2602 2109	4150 3200 2588	4850 3797 3066

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	15	21	27	34	40
n value	1.2269	1.2330	1.2390	1.2488	1.2585
weight [kg/segment]	0.60	0.89	1.20	1.49	1.86
cap. [l/segment]	0.44	0.64	0.84	1.03	1.23

	15	21	27	34	40
	1.2269	1.2330	1.2390	1.2488	1.2585
	0.60	0.89	1.20	1.49	1.86
	0.44	0.64	0.84	1.03	1.23

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 365 mm

column radiators

H [mm]	365				
number of columns B [mm] type	2 63 DL2037..	3 101 DL3037..	4 139 DL4037..	5 177 DL5037..	6 215 DL6037..
PLN/segment	63	71	84	98	
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200		252 168 136	284 216 175	336 265 215	392 315 254
5 250		315 210 170	355 270 219	420 332 268	490 394 318
6 300		378 252 204	426 324 262	504 398 322	588 473 382
7 350		441 294 238	497 378 306	588 465 376	686 551 445
8 400		504 336 273	568 432 350	672 531 429	784 630 509
9 450		567 378 307	639 486 393	756 597 483	882 709 572
10 500		630 420 341	710 540 437	840 664 537	980 788 636
11 550		693 462 375	781 594 481	924 730 590	1078 866 700
12 600		756 504 409	852 648 524	1008 796 644	1176 945 763
13 650		819 546 443	923 701 568	1092 863 698	1274 1024 827
14 700		882 588 477	994 755 612	1176 929 751	1372 1103 890
15 750		945 630 511	1065 809 656	1260 995 805	1470 1181 954
16 800		1008 672 545	1136 863 699	1344 1062 859	1568 1260 1018
17 850		1071 714 579	1207 917 743	1428 1128 912	1666 1339 1081
18 900		1134 756 613	1278 971 787	1512 1194 966	1764 1418 1145
19 950		1197 798 647	1349 1025 830	1596 1261 1020	1862 1496 1208
20 1000		1260 840 681	1420 1079 874	1680 1327 1073	1960 1575 1272
21 1050		1323 882 715	1491 1133 918	1764 1394 1127	2058 1654 1335
22 1100		1386 924 750	1562 1187 962	1848 1460 1181	2156 1733 1399
23 1150		1449 966 784	1633 1241 1005	1932 1526 1234	2254 1811 1463
24 1200		1512 1008 818	1704 1295 1049	2016 1593 1288	2352 1890 1526
25 1250		1575 1050 852	1775 1349 1093	2100 1659 1342	2450 1969 1590
26 1300		1638 1092 886	1846 1403 1136	2184 1725 1395	2548 2048 1653
27 1350		1701 1134 920	1917 1457 1180	2268 1792 1449	2646 2127 1717

H [mm]	365				
number of columns B [mm] type	2 63 DL2037..	3 101 DL3037..	4 139 DL4037..	5 177 DL5037..	6 215 DL6037..
PLN/segment	63	71	84	98	
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400		1764 1176 954	1988 1511 1224	2352 1858 1503	2744 2205 1781
29 1450		1827 1218 988	2059 1565 1268	2436 1924 1556	2842 2284 1844
30 1500		1890 1260 1022	2130 1619 1311	2520 1991 1610	2940 2363 1908
31 1550		1953 1302 1056	2201 1673 1355	2604 2057 1664	3038 2442 1971
32 1600		2016 1344 1090	2272 1727 1399	2688 2124 1717	3136 2520 2035
33 1650		2079 1386 1124	2343 1781 1442	2772 2190 1771	3234 2599 2099
34 1700		2142 1428 1158	2414 1835 1486	2856 2256 1825	3332 2678 2162
35 1750		2205 1470 1192	2485 1889 1530	2940 2323 1878	3430 2757 2226
36 1800		2268 1512 1226	2556 1943 1573	3024 2389 1932	3528 2835 2289
37 1850		2331 1554 1261	2627 1997 1617	3108 2455 1986	3626 2914 2353
38 1900		2394 1596 1295	2698 2050 1661	3192 2522 2039	3724 2993 2417
39 1950		2457 1638 1329	2769 2104 1705	3276 2588 2093	3822 3072 2480
40 2000		2520 1680 1363	2840 2158 1748	3360 2654 2147	3920 3150 2544
41 2050		2583 1722 1397	2911 2212 1792	3444 2721 2200	4018 3229 2607
42 2100		2646 1764 1431	2982 2266 1836	3528 2787 2254	4116 3308 2671
43 2150		2709 1806 1465	3053 2320 1879	3612 2853 2308	4214 3387 2735
44 2200		2772 1848 1499	3124 2374 1923	3696 2920 2361	4312 3465 2798
45 2250		2835 1890 1533	3195 2428 1967	3780 2986 2415	4410 3544 2862
46 2300		2898 1932 1567	3266 2482 2011	3864 3053 2469	4508 3623 2925
47 2350		2961 1974 1601	3337 2536 2054	3948 3119 2522	4606 3702 2989
48 2400		3024 2016 1635	3408 2590 2098	4032 3185 2576	4704 3780 3053
49 2450		3087 2058 1669	3479 2644 2142	4116 3252 2630	4802 3859 3116
50 2500		3150 2101 1703	3550 2698 2185	4200 3318 2683	4900 3938 3180

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	22	28	35	41
n value	1.2347	1.2417	1.2510	1.2603
weight [kg/segment]	0.91	1.22	1.54	1.86
cap. [l/segment]	0.66	0.86	1.06	1.27

[W/segment] 55/45/20 °C	22	28	35	41
n value	1.2347	1.2417	1.2510	1.2603
weight [kg/segment]	0.91	1.22	1.54	1.86
cap. [l/segment]	0.66	0.86	1.06	1.27

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 252 168 — [W] 75/65/20°C
136 — [W] 70/55/20°C

H [mm]	400									
number of columns B [mm] type	2 63 DL2040..	3 101 DL3040..	4 139 DL4040..	5 177 DL5040..	6 215 DL6040..					
PLN/segment	58	64	72	84	101					
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]					
4 200	232 131 106	256 182 148	288 234 189	336 287 232	404 341 275					
5 250	290 163 132	320 228 184	360 292 236	420 359 290	505 427 344					
6 300	348 196 159	384 273 221	432 350 284	504 431 348	606 512 413					
7 350	406 228 185	448 319 258	504 409 331	588 503 407	707 597 482					
8 400	464 261 212	512 364 295	576 467 378	672 575 465	808 683 551					
9 450	522 294 238	576 410 332	648 526 425	756 647 523	909 768 620					
10 500	580 326 265	640 455 369	720 584 473	840 719 581	1010 853 689					
11 550	638 359 291	704 501 406	792 642 520	924 791 639	1111 939 757					
12 600	696 392 318	768 546 443	864 701 567	1008 862 697	1212 1024 826					
13 650	754 424 344	832 592 480	936 759 614	1092 934 755	1313 1109 895					
14 700	812 457 371	896 637 516	1008 818 662	1176 1006 813	1414 1195 964					
15 750	870 489 397	960 683 553	1080 876 709	1260 1078 871	1515 1280 1033					
16 800	928 522 424	1024 728 590	1152 934 756	1344 1150 929	1616 1365 1102					
17 850	986 555 450	1088 774 627	1224 993 803	1428 1222 987	1717 1451 1170					
18 900	1044 587 477	1152 819 664	1296 1051 851	1512 1294 1045	1818 1536 1239					
19 950	1102 620 503	1216 865 701	1368 1110 898	1596 1366 1103	1919 1621 1308					
20 1000	1160 653 530	1280 910 738	1440 1168 945	1680 1437 1161	2020 1707 1377					
21 1050	1218 685 556	1344 956 775	1512 1226 992	1764 1509 1220	2121 1792 1446					
22 1100	1276 718 583	1408 1001 812	1584 1285 1040	1848 1581 1278	2222 1877 1515					
23 1150	1334 750 609	1472 1047 848	1656 1343 1087	1932 1653 1336	2323 1963 1584					
24 1200	1392 783 636	1536 1092 885	1728 1402 1134	2016 1725 1394	2424 2048 1652					
25 1250	1450 816 662	1600 1138 922	1800 1460 1181	2100 1797 1452	2525 2133 1721					
26 1300	1508 848 689	1664 1184 959	1872 1518 1229	2184 1869 1510	2626 2219 1790					
27 1350	1566 881 715	1728 1229 996	1944 1577 1276	2268 1940 1568	2727 2304 1859					

H [mm]	400									
number of columns B [mm] type	2 63 DL2040..	3 101 DL3040..	4 139 DL4040..	5 177 DL5040..	6 215 DL6040..					
PLN/segment	58	64	72	84	101					
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]					
28 1400	1624 914 742	1792 1275 1033	2016 1635 1323	2352 2012 1626	2828 2389 1928					
29 1450	1682 946 768	1856 1320 1070	2088 1694 1370	2436 2084 1684	2929 2475 1997					
30 1500	1740 979 795	1920 1366 1107	2160 1752 1418	2520 2156 1742	3030 2560 2066					
31 1550	1798 1012 821	1984 1411 1144	2232 1810 1465	2604 2228 1800	3131 2645 2134					
32 1600	1856 1044 848	2048 1457 1180	2304 1869 1512	2688 2300 1858	3232 2731 2203					
33 1650	1914 1077 874	2112 1502 1217	2376 1927 1559	2772 2372 1916	3333 2816 2272					
34 1700	1972 1109 900	2176 1548 1254	2448 1986 1607	2856 2444 1974	3434 2901 2341					
35 1750	2030 1142 927	2240 1593 1291	2520 2044 1654	2940 2515 2033	3535 2987 2410					
36 1800	2088 1175 953	2304 1639 1328	2592 2102 1701	3024 2587 2091	3636 3072 2479					
37 1850	2146 1207 980	2368 1684 1365	2664 2161 1748	3108 2659 2149	3737 3157 2547					
38 1900	2204 1240 1006	2432 1730 1402	2736 2219 1796	3192 2731 2207	3838 3243 2616					
39 1950	2262 1273 1033	2496 1775 1439	2808 2278 1843	3276 2803 2265	3939 3328 2685					
40 2000	2320 1305 1059	2560 1821 1476	2880 2336 1890	3360 2875 2323	4040 3413 2754					
41 2050	2378 1338 1086	2624 1866 1512	2952 2394 1937	3444 2947 2381	4141 3499 2823					
42 2100	2436 1370 1112	2688 1912 1549	3024 2453 1985	3528 3019 2439	4242 3584 2892					
43 2150	2494 1403 1139	2752 1957 1586	3096 2511 2032	3612 3090 2497	4343 3669 2961					
44 2200	2552 1436 1165	2816 2003 1623	3168 2570 2079	3696 3162 2555	4444 3755 3029					
45 2250	2610 1468 1192	2880 2048 1660	3240 2628 2126	3780 3234 2613	4545 3840 3098					
46 2300	2668 1501 1218	2944 2094 1697	3312 2686 2174	3864 3306 2671	4646 3925 3167					
47 2350	2726 1534 1245	3008 2139 1734	3384 2745 2221	3948 3378 2729	4747 4011 3236					
48 2400	2784 1566 1271	3072 2185 1771	3456 2803 2268	4032 3450 2787	4848 4096 3305					
49 2450	2842 1599 1298	3136 2230 1808	3528 2862 2315	4116 3522 2846	4949 4181 3374					
50 2500	2900 1632 1324	3200 2276 1844	3600 2920 2363	4200 3594 2904	5050 4267 3443					

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	17	24	31	38	44
n value	1.2296	1.2388	1.2479	1.2562	1.2645
weight [kg/segment]	0.68	1.00	1.35	1.67	2.02
cap. [l/segment]	0.49	0.70	0.92	1.14	1.35

	17	24	31	38	44
	1.2296	1.2388	1.2479	1.2562	1.2645
	0.68	1.00	1.35	1.67	2.02
	0.49	0.70	0.92	1.14	1.35

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 415 mm

column radiators

H [mm]	415				
number of columns B [mm] type		3 101 DL3042..	4 139 DL4042..		6 215 DL6042..
PLN/segment		65	74		101
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200		260 ¹⁸⁸ ₁₅₂	296 ²⁴¹ ₁₉₅		404 ³⁵² ₂₈₄
5 250		325 ²³⁵ ₁₉₀	370 ³⁰¹ ₂₄₄		505 ⁴⁴¹ ₃₅₅
6 300		390 ²⁸² ₂₂₉	444 ³⁶² ₂₉₃		606 ⁵²⁹ ₄₂₆
7 350		455 ³²⁹ ₂₆₇	518 ⁴²² ₃₄₁		707 ⁶¹⁷ ₄₉₈
8 400		520 ³⁷⁶ ₃₀₅	592 ⁴⁸² ₃₉₀		808 ⁷⁰⁵ ₅₆₉
9 450		585 ⁴²³ ₃₄₃	666 ⁵⁴³ ₄₃₉		909 ⁷⁹³ ₆₄₀
10 500		650 ⁴⁷⁰ ₃₈₁	740 ⁶⁰³ ₄₈₈		1010 ⁸⁸¹ ₇₁₁
11 550		715 ⁵¹⁷ ₄₁₉	814 ⁶⁶³ ₅₃₆		1111 ⁹⁶⁹ ₇₈₂
12 600		780 ⁵⁶⁴ ₄₅₇	888 ⁷²³ ₅₈₅		1212 ¹⁰⁵⁷ ₈₅₃
13 650		845 ⁶¹¹ ₄₉₅	962 ⁷⁸⁴ ₆₃₄		1313 ¹¹⁴⁶ ₉₂₄
14 700		910 ⁶⁵⁸ ₅₃₃	1036 ⁸⁴⁴ ₆₈₃		1414 ¹²³⁴ ₉₉₅
15 750		975 ⁷⁰⁵ ₅₇₁	1110 ⁹⁰⁴ ₇₃₁		1515 ¹³²² ₁₀₆₆
16 800		1040 ⁷⁵² ₆₀₉	1184 ⁹⁶⁵ ₇₈₀		1616 ¹⁴¹⁰ ₁₁₃₇
17 850		1105 ⁷⁹⁹ ₆₄₇	1258 ¹⁰²⁵ ₈₂₉		1717 ¹⁴⁹⁸ ₁₂₀₈
18 900		1170 ⁸⁴⁶ ₆₈₆	1332 ¹⁰⁸⁵ ₈₇₈		1818 ¹⁵⁸⁶ ₁₂₇₉
19 950		1235 ⁸⁹³ ₇₂₄	1406 ¹¹⁴⁶ ₉₂₆		1919 ¹⁶⁷⁴ ₁₃₅₁
20 1000		1300 ⁹⁴⁰ ₇₆₂	1480 ¹²⁰⁶ ₉₇₅		2020 ¹⁷⁶² ₁₄₂₂
21 1050		1365 ⁹⁸⁷ ₈₀₀	1554 ¹²⁶⁶ ₁₀₂₄		2121 ¹⁸⁵¹ ₁₄₉₃
22 1100		1430 ¹⁰³⁴ ₈₃₈	1628 ¹³²⁶ ₁₀₇₃		2222 ¹⁹³⁹ ₁₅₆₄
23 1150		1495 ¹⁰⁸¹ ₈₇₆	1702 ¹³⁸⁷ ₁₁₂₂		2323 ²⁰²⁷ ₁₆₃₅
24 1200		1560 ¹¹²⁸ ₉₁₄	1776 ¹⁴⁴⁷ ₁₁₇₀		2424 ²¹¹⁵ ₁₇₀₆
25 1250		1625 ¹¹⁷⁵ ₉₅₂	1850 ¹⁵⁰⁷ ₁₂₁₉		2525 ²²⁰³ ₁₇₇₇
26 1300		1690 ¹²²² ₉₉₀	1924 ¹⁵⁶⁸ ₁₂₆₈		2626 ²²⁹¹ ₁₈₄₈
27 1350		1755 ¹²⁶⁹ ₁₀₂₈	1998 ¹⁶²⁸ ₁₃₁₇		2727 ²³⁷⁹ ₁₉₁₉

H [mm]	415				
number of columns B [mm] type		3 101 DL3042..	4 139 DL4042..		6 215 DL6042..
PLN/segment		65	74		101
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400		1820 ¹³¹⁶ ₁₀₆₆	2072 ¹⁶⁸⁸ ₁₃₆₅		2828 ²⁴⁶⁷ ₁₉₉₀
29 1450		1885 ¹³⁶³ ₁₁₀₄	2146 ¹⁷⁴⁸ ₁₄₁₄		2929 ²⁵⁵⁵ ₂₀₆₁
30 1500		1950 ¹⁴¹⁰ ₁₁₄₃	2220 ¹⁸⁰⁹ ₁₄₆₃		3030 ²⁶⁴⁴ ₂₁₃₂
31 1550		2015 ¹⁴⁵⁷ ₁₁₈₁	2294 ¹⁸⁶⁹ ₁₅₁₂		3131 ²⁷³² ₂₂₀₃
32 1600		2080 ¹⁵⁰⁴ ₁₂₁₉	2368 ¹⁹²⁹ ₁₅₆₀		3232 ²⁸²⁰ ₂₂₇₅
33 1650		2145 ¹⁵⁵¹ ₁₂₅₇	2442 ¹⁹⁹⁰ ₁₆₀₉		3333 ²⁹⁰⁸ ₂₃₄₆
34 1700		2210 ¹⁵⁹⁸ ₁₂₉₅	2516 ²⁰⁵⁰ ₁₆₅₈		3434 ²⁹⁹⁶ ₂₄₁₇
35 1750		2275 ¹⁶⁴⁵ ₁₃₃₃	2590 ²¹¹⁰ ₁₇₀₇		3535 ³⁰⁸⁴ ₂₄₈₈
36 1800		2340 ¹⁶⁹² ₁₃₇₁	2664 ²¹⁷⁰ ₁₇₅₅		3636 ³¹⁷² ₂₅₅₉
37 1850		2405 ¹⁷³⁹ ₁₄₀₉	2738 ²²³¹ ₁₈₀₄		3737 ³²⁶⁰ ₂₆₃₀
38 1900		2470 ¹⁷⁸⁶ ₁₄₄₇	2812 ²²⁹¹ ₁₈₅₃		3838 ³³⁴⁹ ₂₇₀₁
39 1950		2535 ¹⁸³³ ₁₄₈₅	2886 ²³⁵¹ ₁₉₀₂		3939 ³⁴³⁷ ₂₇₇₂
40 2000		2600 ¹⁸⁸⁰ ₁₅₂₃	2960 ²⁴¹² ₁₉₅₀		4040 ³⁵²⁵ ₂₈₄₃
41 2050		2665 ¹⁹²⁷ ₁₅₆₂	3034 ²⁴⁷² ₁₉₉₉		4141 ³⁶¹³ ₂₉₁₄
42 2100		2730 ¹⁹⁷⁴ ₁₆₀₀	3108 ²⁵³² ₂₀₄₈		4242 ³⁷⁰¹ ₂₉₈₅
43 2150		2795 ²⁰²¹ ₁₆₃₈	3182 ²⁵⁹² ₂₀₉₇		4343 ³⁷⁸⁹ ₃₀₅₆
44 2200		2860 ²⁰⁶⁸ ₁₆₇₆	3256 ²⁶⁵³ ₂₁₄₆		4444 ³⁸⁷⁷ ₃₁₂₈
45 2250		2925 ²¹¹⁵ ₁₇₁₄	3330 ²⁷¹³ ₂₁₉₄		4545 ³⁹⁶⁵ ₃₁₉₉
46 2300		2990 ²¹⁶² ₁₇₅₂	3404 ²⁷⁷³ ₂₂₄₃		4646 ⁴⁰⁵⁴ ₃₂₇₀
47 2350		3055 ²²⁰⁹ ₁₇₉₀	3478 ²⁸³⁴ ₂₂₉₂		4747 ⁴¹⁴² ₃₃₄₁
48 2400		3120 ²²⁵⁶ ₁₈₂₈	3552 ²⁸⁹⁴ ₂₃₄₁		4848 ⁴²³⁰ ₃₄₁₂
49 2450		3185 ²³⁰³ ₁₈₆₆	3626 ²⁹⁵⁴ ₂₃₈₉		4949 ⁴³¹⁸ ₃₄₈₃
50 2500		3250 ²³⁵¹ ₁₉₀₄	3700 ³⁰¹⁵ ₂₄₃₈		5050 ⁴⁴⁰⁶ ₃₅₅₄

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C		25	32		46
n value		1.2405	1.2505		1.2663
weight [kg/segment]		1.03	1.37		2.08
cap. [l/segment]		0.72	0.95		1.39

[W/segment] 55/45/20 °C		25	32		46
n value		1.2405	1.2505		1.2663
weight [kg/segment]		1.03	1.37		2.08
cap. [l/segment]		0.72	0.95		1.39

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 260 ¹⁸⁸₁₅₂ — [W] 75/65/20°C
— [W] 70/55/20°C

H [mm]	450				
number of columns	2	3	4	5	6
B [mm]	63	101	139	177	215
type	DL2045..	DL3045..	DL4045..	DL5045..	DL6045..
PLN/segment	60	67	75	88	102
number of segments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	240 145 118	268 202 163	300 259 209	352 319 257	408 378 305
5 250	300 181 147	335 252 204	375 323 261	440 398 321	510 473 381
6 300	360 218 176	402 303 245	450 388 314	528 478 386	612 568 458
7 350	420 254 206	469 353 286	525 453 366	616 557 450	714 662 534
8 400	480 290 235	536 404 327	600 517 418	704 637 514	816 757 610
9 450	540 326 265	603 454 368	675 582 470	792 717 578	918 851 686
10 500	600 363 294	670 505 409	750 647 523	880 796 643	1020 946 763
11 550	660 399 324	737 555 449	825 711 575	968 876 707	1122 1041 839
12 600	720 435 353	804 606 490	900 776 627	1056 956 771	1224 1135 915
13 650	780 471 382	871 656 531	975 841 679	1144 1035 836	1326 1230 991
14 700	840 508 412	938 707 572	1050 906 732	1232 1115 900	1428 1324 1068
15 750	900 544 441	1005 757 613	1125 970 784	1320 1195 964	1530 1419 1144
16 800	960 580 471	1072 808 654	1200 1035 836	1408 1274 1028	1632 1514 1220
17 850	1020 616 500	1139 858 695	1275 1100 888	1496 1354 1093	1734 1608 1296
18 900	1080 653 529	1206 908 736	1350 1164 941	1584 1434 1157	1836 1703 1373
19 950	1140 689 559	1273 959 776	1425 1229 993	1672 1513 1221	1938 1797 1449
20 1000	1200 725 588	1340 1009 817	1500 1294 1045	1760 1593 1285	2040 1892 1525
21 1050	1260 761 618	1407 1060 858	1575 1358 1097	1848 1672 1350	2142 1987 1601
22 1100	1320 798 647	1474 1110 899	1650 1423 1150	1936 1752 1414	2244 2081 1678
23 1150	1380 834 677	1541 1161 940	1725 1488 1202	2024 1832 1478	2346 2176 1754
24 1200	1440 870 706	1608 1211 981	1800 1552 1254	2112 1911 1543	2448 2270 1830
25 1250	1500 907 735	1675 1262 1022	1875 1617 1307	2200 1991 1607	2550 2365 1906
26 1300	1560 943 765	1742 1312 1062	1950 1682 1359	2288 2071 1671	2652 2460 1983
27 1350	1620 979 794	1809 1363 1103	2025 1746 1411	2376 2150 1735	2754 2554 2059

	450				
	2	3	4	5	6
	63	101	139	177	215
	DL2045..	DL3045..	DL4045..	DL5045..	DL6045..
	60	67	75	88	102
	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1680 1015 824	1876 1413 1144	2100 1811 1463	2464 2230 1800	2856 2649 2135
29 1450	1740 1052 853	1943 1464 1185	2175 1876 1516	2552 2310 1864	2958 2743 2211
30 1500	1800 1088 882	2010 1514 1226	2250 1940 1568	2640 2389 1928	3060 2838 2288
31 1550	1860 1124 912	2077 1565 1267	2325 2005 1620	2728 2469 1992	3162 2933 2364
32 1600	1920 1160 941	2144 1615 1308	2400 2070 1672	2816 2548 2057	3264 3027 2440
33 1650	1980 1197 971	2211 1666 1348	2475 2134 1725	2904 2628 2121	3366 3122 2516
34 1700	2040 1233 1000	2278 1716 1389	2550 2199 1777	2992 2708 2185	3468 3216 2593
35 1750	2100 1269 1030	2345 1766 1430	2625 2264 1829	3080 2787 2250	3570 3311 2669
36 1800	2160 1305 1059	2412 1817 1471	2700 2328 1881	3168 2867 2314	3672 3406 2745
37 1850	2220 1342 1088	2479 1867 1512	2775 2393 1934	3256 2947 2378	3774 3500 2821
38 1900	2280 1378 1118	2546 1918 1553	2850 2458 1986	3344 3026 2442	3876 3595 2898
39 1950	2340 1414 1147	2613 1968 1594	2925 2523 2038	3432 3106 2507	3978 3689 2974
40 2000	2400 1450 1177	2680 2019 1634	3000 2587 2090	3520 3186 2571	4080 3784 3050
41 2050	2460 1487 1206	2747 2069 1675	3075 2652 2143	3608 3265 2635	4182 3879 3126
42 2100	2520 1523 1235	2814 2120 1716	3150 2717 2195	3696 3345 2699	4284 3973 3203
43 2150	2580 1559 1265	2881 2170 1757	3225 2781 2247	3784 3425 2764	4386 4068 3279
44 2200	2640 1595 1294	2948 2221 1798	3300 2846 2299	3872 3504 2828	4488 4162 3355
45 2250	2700 1632 1324	3015 2271 1839	3375 2911 2352	3960 3584 2892	4590 4257 3431
46 2300	2760 1668 1353	3082 2322 1880	3450 2975 2404	4048 3663 2956	4692 4352 3508
47 2350	2820 1704 1383	3149 2372 1920	3525 3040 2456	4136 3743 3021	4794 4446 3584
48 2400	2880 1740 1412	3216 2423 1961	3600 3105 2509	4224 3823 3085	4896 4541 3660
49 2450	2940 1777 1441	3283 2473 2002	3675 3169 2561	4312 3902 3149	4998 4635 3737
50 2500	3000 1813 1471	3350 2524 2043	3750 3234 2613	4400 3982 3214	5100 4730 3813

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	19	27	34	41	49
n value	1.2325	1.2445	1.2564	1.2634	1.2703
weight [kg/segment]	0.75	1.12	1.49	1.86	2.24
cap. [l/segment]	0.53	0.76	1.01	1.24	1.48

	19	27	34	41	49
	1.2325	1.2445	1.2564	1.2634	1.2703
	0.75	1.12	1.49	1.86	2.24
	0.53	0.76	1.01	1.24	1.48

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

H [mm]	500									
number of columns B [mm] type	2 63 DL2050..	3 101 DL3050..	4 139 DL4050..	5 177 DL5050..	6 215 DL6050..					
PLN/segment	61	70	77	90	105					
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]					
4 200	244 159 129	280 222 179	308 284 229	360 349 282	420 415 334					
5 250	305 199 162	350 277 224	385 354 286	450 437 352	525 519 418					
6 300	366 239 194	420 332 269	462 425 343	540 524 422	630 623 501					
7 350	427 279 226	490 388 314	539 496 400	630 611 493	735 726 585					
8 400	488 319 259	560 443 358	616 567 458	720 699 563	840 830 668					
9 450	549 359 291	630 498 403	693 638 515	810 786 633	945 934 752					
10 500	610 399 323	700 554 448	770 709 572	900 873 704	1050 1038 836					
11 550	671 439 356	770 609 493	847 780 629	990 961 774	1155 1141 919					
12 600	732 478 388	840 665 538	924 851 686	1080 1048 845	1260 1245 1003					
13 650	793 518 420	910 720 582	1001 921 744	1170 1135 915	1365 1349 1086					
14 700	854 558 453	980 775 627	1078 992 801	1260 1222 985	1470 1453 1170					
15 750	915 598 485	1050 831 672	1155 1063 858	1350 1310 1056	1575 1556 1253					
16 800	976 638 517	1120 886 717	1232 1134 915	1440 1397 1126	1680 1660 1337					
17 850	1037 678 550	1190 941 762	1309 1205 972	1530 1484 1197	1785 1764 1421					
18 900	1098 718 582	1260 997 806	1386 1276 1029	1620 1572 1267	1890 1868 1504					
19 950	1159 758 614	1330 1052 851	1463 1347 1087	1710 1659 1337	1995 1971 1588					
20 1000	1220 797 647	1400 1108 896	1540 1418 1144	1800 1746 1408	2100 2075 1671					
21 1050	1281 837 679	1470 1163 941	1617 1488 1201	1890 1834 1478	2205 2179 1755					
22 1100	1342 877 711	1540 1218 986	1694 1559 1258	1980 1921 1549	2310 2283 1838					
23 1150	1403 917 744	1610 1274 1030	1771 1630 1315	2070 2008 1619	2415 2386 1922					
24 1200	1464 957 776	1680 1329 1075	1848 1701 1373	2160 2096 1689	2520 2490 2005					
25 1250	1525 997 808	1750 1385 1120	1925 1772 1430	2250 2183 1760	2625 2594 2089					
26 1300	1586 1037 841	1820 1440 1165	2002 1843 1487	2340 2270 1830	2730 2698 2173					
27 1350	1647 1076 873	1890 1495 1209	2079 1914 1544	2430 2358 1900	2835 2802 2256					

H [mm]	500									
number of columns B [mm] type	2 63 DL2050..	3 101 DL3050..	4 139 DL4050..	5 177 DL5050..	6 215 DL6050..					
PLN/segment	61	70	77	90	105					
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]					
28 1400	1708 1116 905	1960 1551 1254	2156 1985 1601	2520 2445 1971	2940 2905 2340					
29 1450	1769 1156 938	2030 1606 1299	2233 2056 1659	2610 2532 2041	3045 3009 2423					
30 1500	1830 1196 970	2100 1661 1344	2310 2126 1716	2700 2620 2112	3150 3113 2507					
31 1550	1891 1236 1002	2170 1717 1389	2387 2197 1773	2790 2707 2182	3255 3217 2590					
32 1600	1952 1276 1035	2240 1772 1433	2464 2268 1830	2880 2794 2252	3360 3320 2674					
33 1650	2013 1316 1067	2310 1828 1478	2541 2339 1887	2970 2882 2323	3465 3424 2757					
34 1700	2074 1356 1099	2380 1883 1523	2618 2410 1945	3060 2969 2393	3570 3528 2841					
35 1750	2135 1395 1132	2450 1938 1568	2695 2481 2002	3150 3056 2464	3675 3632 2925					
36 1800	2196 1435 1164	2520 1994 1613	2772 2552 2059	3240 3144 2534	3780 3735 3008					
37 1850	2257 1475 1196	2590 2049 1657	2849 2623 2116	3330 3231 2604	3885 3839 3092					
38 1900	2318 1515 1229	2660 2104 1702	2926 2693 2173	3420 3318 2675	3990 3943 3175					
39 1950	2379 1555 1261	2730 2160 1747	3003 2764 2231	3510 3405 2745	4095 4047 3259					
40 2000	2440 1595 1293	2800 2215 1792	3080 2835 2288	3600 3493 2816	4200 4150 3342					
41 2050	2501 1635 1326	2870 2271 1837	3157 2906 2345	3690 3580 2886	4305 4254 3426					
42 2100	2562 1675 1358	2940 2326 1881	3234 2977 2402	3780 3667 2956	4410 4358 3510					
43 2150	2623 1714 1390	3010 2381 1926	3311 3048 2459	3870 3755 3027	4515 4462 3593					
44 2200	2684 1754 1422	3080 2437 1971	3388 3119 2516	3960 3842 3097	4620 4565 3677					
45 2250	2745 1794 1455	3150 2492 2016	3465 3190 2574	4050 3929 3167	4725 4669 3760					
46 2300	2806 1834 1487	3220 2547 2061	3542 3260 2631	4140 4017 3238	4830 4773 3844					
47 2350	2867 1874 1519	3290 2603 2105	3619 3331 2688	4230 4104 3308	4935 4877 3927					
48 2400	2928 1914 1552	3360 2658 2150	3696 3402 2745	4320 4191 3379	5040 4980 4011					
49 2450	2989 1954 1584	3430 2714 2195	3773 3473 2802	4410 4279 3449	5145 5084 4094					
50 2500	3050 1994 1616	3500 2769 2240	3850 3544 2860	4500 4366 3519	5250 5188 4178					

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	21	29	37	45	54
n value	1.2354	1.2499	1.2644	1.2702	1.2759
weight [kg/segment]	0.83	1.23	1.64	2.04	2.46
cap. [l/segment]	0.57	0.83	1.09	1.34	1.60

	21	29	37	45	54
	1.2354	1.2499	1.2644	1.2702	1.2759
	0.83	1.23	1.64	2.04	2.46
	0.57	0.83	1.09	1.34	1.60

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 244 159 — [W] 75/65/20°C
129 — [W] 70/55/20°C

H [mm]	550				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2055..	DL3055..	DL4055..	DL5055..	DL6055..	
PLN/segment	63	71	79	93	110
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	252 174 141	284 241 195	316 308 248	372 380 306	440 451 363
5 250	315 217 176	355 301 243	395 385 310	465 475 382	550 564 454
6 300	378 261 211	426 362 292	474 462 372	558 570 459	660 677 545
7 350	441 304 247	497 421 322	553 539 435	651 665 535	770 790 635
8 400	504 348 282	568 482 390	632 616 497	744 759 612	880 903 726
9 450	567 391 317	639 542 438	711 693 559	837 854 688	990 1015 817
10 500	630 435 352	710 603 487	790 770 621	930 949 764	1100 1128 908
11 550	693 478 387	781 663 536	869 847 683	1023 1044 841	1210 1241 999
12 600	756 522 423	852 723 584	948 924 745	1116 1139 917	1320 1354 1089
13 650	819 565 458	923 783 633	1027 1001 807	1209 1234 994	1430 1467 1180
14 700	882 608 493	994 844 682	1106 1078 869	1302 1329 1070	1540 1580 1271
15 750	945 652 528	1065 904 730	1185 1155 931	1395 1424 1147	1650 1692 1362
16 800	1008 695 564	1136 964 779	1264 1232 993	1488 1519 1223	1760 1805 1452
17 850	1071 739 599	1207 1024 828	1343 1310 1055	1581 1614 1299	1870 1918 1543
18 900	1134 782 634	1278 1085 876	1422 1387 1117	1674 1709 1376	1980 2031 1634
19 950	1197 826 669	1349 1145 925	1501 1464 1179	1767 1804 1452	2090 2144 1725
20 1000	1260 869 704	1420 1205 974	1580 1541 1241	1860 1899 1529	2200 2257 1816
21 1050	1323 913 740	1491 1265 1023	1659 1618 1304	1953 1994 1605	2310 2369 1906
22 1100	1386 956 775	1562 1326 1071	1738 1695 1366	2046 2088 1682	2420 2482 1997
23 1150	1449 1000 810	1633 1386 1120	1817 1772 1428	2139 2183 1758	2530 2595 2088
24 1200	1512 1043 845	1704 1446 1169	1896 1849 1490	2232 2278 1835	2640 2708 2179
25 1250	1575 1087 881	1775 1506 1217	1975 1926 1552	2325 2373 1911	2750 2821 2270
26 1300	1638 1130 916	1846 1567 1266	2054 2003 1614	2418 2468 1987	2860 2934 2360
27 1350	1701 1173 951	1917 1627 1315	2133 2080 1676	2511 2563 2064	2970 3046 2451

H [mm]	550				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2055..	DL3055..	DL4055..	DL5055..	DL6055..	
PLN/segment	63	71	79	93	110
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1764 1217 986	1988 1687 1363	2212 2157 1738	2604 2658 2140	3080 3159 2542
29 1450	1827 1260 1021	2059 1747 1412	2291 2234 1800	2697 2753 2217	3190 3272 2633
30 1500	1890 1304 1057	2130 1808 1461	2370 2311 1862	2790 2848 2293	3300 3385 2723
31 1550	1953 1347 1092	2201 1868 1509	2449 2388 1924	2883 2943 2370	3410 3498 2814
32 1600	2016 1391 1127	2272 1928 1558	2528 2465 1986	2976 3038 2446	3520 3611 2905
33 1650	2079 1434 1162	2343 1988 1607	2607 2542 2048	3069 3133 2522	3630 3723 2996
34 1700	2142 1478 1198	2414 2049 1655	2686 2619 2111	3162 3228 2599	3740 3836 3087
35 1750	2205 1521 1233	2485 2109 1704	2765 2696 2173	3255 3323 2675	3850 3949 3177
36 1800	2268 1565 1268	2556 2169 1753	2844 2773 2235	3348 3417 2752	3960 4062 3268
37 1850	2331 1608 1303	2627 2229 1802	2923 2850 2297	3441 3512 2828	4070 4175 3359
38 1900	2394 1651 1338	2698 2290 1850	3002 2927 2359	3534 3607 2905	4180 4288 3450
39 1950	2457 1695 1374	2769 2350 1899	3081 3004 2421	3627 3702 2981	4290 4400 3540
40 2000	2520 1738 1409	2840 2410 1948	3160 3081 2483	3720 3797 3058	4400 4513 3631
41 2050	2583 1782 1444	2911 2470 1996	3239 3158 2545	3813 3892 3134	4510 4626 3722
42 2100	2646 1825 1479	2982 2531 2045	3318 3235 2607	3906 3987 3210	4620 4739 3813
43 2150	2709 1869 1515	3053 2591 2094	3397 3312 2669	3999 4082 3287	4730 4852 3904
44 2200	2772 1912 1550	3124 2651 2142	3476 3389 2731	4092 4177 3363	4840 4965 3994
45 2250	2835 1956 1585	3195 2711 2191	3555 3466 2793	4185 4272 3440	4950 5077 4085
46 2300	2898 1999 1620	3266 2772 2240	3634 3543 2855	4278 4367 3516	5060 5190 4176
47 2350	2961 2043 1655	3337 2832 2288	3713 3620 2918	4371 4462 3593	5170 5303 4267
48 2400	3024 2086 1691	3408 2892 2337	3792 3697 2980	4464 4557 3669	5280 5416 4357
49 2450	3087 2130 1726	3479 2952 2386	3871 3774 3042	4557 4652 3745	5390 5529 4448
50 2500	3150 2173 1761	3550 3013 2435	3950 3852 3104	4650 4747 3822	5500 5642 4539

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	23	31	40	49	58
n value	1.2384	1.2552	1.2720	1.2767	1.2813
weight [kg/segment]	0.91	1.34	1.79	2.23	2.68
cap. [l/segment]	0.62	0.89	1.17	1.45	1.73

	23	31	40	49	58
	1.2384	1.2552	1.2720	1.2767	1.2813
	0.91	1.34	1.79	2.23	2.68
	0.62	0.89	1.17	1.45	1.73

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20.

H [mm]	565				
number of columns B [mm] type	2 63 DL2057..	3 101 DL3057..	4 139 DL4057..	5 177 DL5057..	6 215 DL6057..
PLN/segment	63	72	82	96	114
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	252 178 144	288 247 199	328 315 254	384 389 313	456 462 372
5 250	315 223 180	360 309 249	410 394 318	480 486 391	570 578 465
6 300	378 267 217	432 370 299	492 473 381	576 583 469	684 693 558
7 350	441 312 253	504 432 349	574 552 445	672 680 548	798 809 651
8 400	504 356 289	576 494 399	656 631 508	768 778 626	912 924 743
9 450	567 401 325	648 555 449	738 710 572	864 875 704	1026 1040 836
10 500	630 445 361	720 617 498	820 789 635	960 972 782	1140 1155 929
11 550	693 490 397	792 679 548	902 867 699	1056 1069 861	1254 1271 1022
12 600	756 534 433	864 740 598	984 946 762	1152 1166 939	1368 1386 1115
13 650	819 579 469	936 802 648	1066 1025 826	1248 1264 1017	1482 1502 1208
14 700	882 623 505	1008 864 698	1148 1104 889	1344 1361 1095	1596 1618 1301
15 750	945 668 541	1080 926 748	1230 1183 953	1440 1458 1174	1710 1733 1394
16 800	1008 712 577	1152 987 798	1312 1262 1016	1536 1555 1252	1824 1849 1487
17 850	1071 757 613	1224 1049 847	1394 1341 1080	1632 1652 1330	1938 1964 1580
18 900	1134 802 650	1296 1111 897	1476 1419 1143	1728 1750 1408	2052 2080 1673
19 950	1197 846 686	1368 1172 947	1558 1498 1207	1824 1847 1487	2166 2195 1766
20 1000	1260 891 722	1440 1234 997	1640 1577 1271	1920 1944 1565	2280 2311 1859
21 1050	1323 935 758	1512 1296 1047	1722 1656 1334	2016 2041 1643	2394 2426 1952
22 1100	1386 980 794	1584 1357 1097	1804 1735 1398	2112 2138 1721	2508 2542 2045
23 1150	1449 1024 830	1656 1419 1147	1886 1814 1461	2208 2236 1800	2622 2657 2138
24 1200	1512 1069 866	1728 1481 1196	1968 1893 1525	2304 2333 1878	2736 2773 2230
25 1250	1575 1113 902	1800 1543 1246	2050 1972 1588	2400 2430 1956	2850 2889 2323
26 1300	1638 1158 938	1872 1604 1296	2132 2050 1652	2496 2527 2034	2964 3004 2416
27 1350	1701 1202 974	1944 1666 1346	2214 2129 1715	2592 2624 2113	3078 3120 2509

H [mm]	565				
number of columns B [mm] type	2 63 DL2057..	3 101 DL3057..	4 139 DL4057..	5 177 DL5057..	6 215 DL6057..
PLN/segment	63	72	82	96	114
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1764 1247 1010	2016 1728 1396	2296 2208 1779	2688 2722 2191	3192 3235 2602
29 1450	1827 1291 1046	2088 1789 1446	2378 2287 1842	2784 2819 2269	3306 3351 2695
30 1500	1890 1336 1083	2160 1851 1495	2460 2366 1906	2880 2916 2347	3420 3466 2788
31 1550	1953 1380 1119	2232 1913 1545	2542 2445 1969	2976 3013 2425	3534 3582 2881
32 1600	2016 1425 1155	2304 1974 1595	2624 2524 2033	3072 3110 2504	3648 3697 2974
33 1650	2079 1469 1191	2376 2036 1645	2706 2602 2096	3168 3208 2582	3762 3813 3067
34 1700	2142 1514 1227	2448 2098 1695	2788 2681 2160	3264 3305 2660	3876 3928 3160
35 1750	2205 1559 1263	2520 2160 1745	2870 2760 2223	3360 3402 2738	3990 4044 3253
36 1800	2268 1603 1299	2592 2221 1795	2952 2839 2287	3456 3499 2817	4104 4159 3346
37 1850	2331 1648 1335	2664 2283 1844	3034 2918 2350	3552 3596 2895	4218 4275 3439
38 1900	2394 1692 1371	2736 2345 1894	3116 2997 2414	3648 3694 2973	4332 4391 3532
39 1950	2457 1737 1407	2808 2406 1944	3198 3076 2477	3744 3791 3051	4446 4506 3624
40 2000	2520 1781 1443	2880 2468 1994	3280 3154 2541	3840 3888 3130	4560 4622 3717
41 2050	2583 1826 1479	2952 2530 2044	3362 3233 2605	3936 3985 3208	4674 4737 3810
42 2100	2646 1870 1516	3024 2591 2094	3444 3312 2668	4032 4082 3286	4788 4853 3903
43 2150	2709 1915 1552	3096 2653 2144	3526 3391 2732	4128 4180 3364	4902 4968 3996
44 2200	2772 1959 1588	3168 2715 2193	3608 3470 2795	4224 4277 3443	5016 5084 4089
45 2250	2835 2004 1624	3240 2777 2243	3690 3549 2859	4320 4374 3521	5130 5199 4182
46 2300	2898 2048 1660	3312 2838 2293	3772 3628 2922	4416 4471 3599	5244 5315 4275
47 2350	2961 2093 1696	3384 2900 2343	3854 3706 2986	4512 4568 3677	5358 5430 4368
48 2400	3024 2137 1732	3456 2962 2393	3936 3785 3049	4608 4666 3756	5472 5546 4461
49 2450	3087 2182 1768	3528 3023 2443	4018 3864 3113	4704 4763 3834	5586 5661 4554
50 2500	3150 2227 1804	3600 3085 2492	4100 3943 3176	4800 4860 3912	5700 5777 4647

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	23	32	41	50	60
n value	1.2393	1.2568	1.2742	1.2786	1.2829
weight [kg/segment]	0.93	1.38	1.84	2.29	2.75
cap. [l/segment]	0.63	0.91	1.20	1.48	1.76

	23	32	41	50	60
	1.2393	1.2568	1.2742	1.2786	1.2829
	0.93	1.38	1.84	2.29	2.75
	0.63	0.91	1.20	1.48	1.76

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 252 178 — [W] 75/65/20°C
144 — [W] 70/55/20°C

H [mm]	600				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2060..	DL3060..	DL4060..	DL5060..	DL6060..	
PLN/segment	64	73	83	97	114
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	256 188 152	292 260 210	332 332 268	388 410 330	456 487 392
5 250	320 235 190	365 325 263	415 416 334	485 512 412	570 609 490
6 300	384 282 229	438 390 315	498 499 401	582 615 495	684 731 588
7 350	448 329 267	511 455 368	581 582 468	679 717 577	798 853 686
8 400	512 376 305	584 521 420	664 665 535	776 820 659	912 975 783
9 450	576 423 343	657 586 473	747 748 602	873 922 742	1026 1096 881
10 500	640 470 381	730 651 525	830 831 669	970 1025 824	1140 1218 979
11 550	704 517 419	803 716 578	913 914 736	1067 1127 907	1254 1340 1077
12 600	768 564 457	876 781 630	996 997 803	1164 1230 989	1368 1462 1175
13 650	832 611 495	949 846 683	1079 1081 870	1261 1332 1072	1482 1584 1273
14 700	896 658 533	1022 911 736	1162 1164 937	1358 1435 1154	1596 1706 1371
15 750	960 705 571	1095 976 788	1245 1247 1003	1455 1537 1236	1710 1827 1469
16 800	1024 752 609	1168 1041 841	1328 1330 1070	1552 1640 1319	1824 1949 1567
17 850	1088 799 647	1241 1106 893	1411 1413 1137	1649 1742 1401	1938 2071 1665
18 900	1152 846 686	1314 1171 946	1494 1496 1204	1746 1845 1484	2052 2193 1763
19 950	1216 893 724	1387 1236 998	1577 1579 1271	1843 1947 1566	2166 2315 1861
20 1000	1280 940 762	1460 1301 1051	1660 1662 1338	1940 2050 1649	2280 2437 1959
21 1050	1344 987 800	1533 1366 1103	1743 1746 1405	2037 2152 1731	2394 2558 2057
22 1100	1408 1034 838	1606 1432 1156	1826 1829 1472	2134 2255 1813	2508 2680 2155
23 1150	1472 1081 876	1679 1497 1208	1909 1912 1539	2231 2357 1896	2622 2802 2253
24 1200	1536 1128 914	1752 1562 1261	1992 1995 1606	2328 2460 1978	2736 2924 2350
25 1250	1600 1176 952	1825 1627 1314	2075 2078 1672	2425 2562 2061	2850 3046 2448
26 1300	1664 1223 990	1898 1692 1366	2158 2161 1739	2522 2664 2143	2964 3168 2546
27 1350	1728 1270 1028	1971 1757 1419	2241 2244 1806	2619 2767 2226	3078 3289 2644

H [mm]	600				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2060..	DL3060..	DL4060..	DL5060..	DL6060..	
PLN/segment	64	73	83	97	114
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1792 1317 1066	2044 1822 1471	2324 2327 1873	2716 2869 2308	3192 3411 2742
29 1450	1856 1364 1105	2117 1887 1524	2407 2410 1940	2813 2972 2390	3306 3533 2840
30 1500	1920 1411 1143	2190 1952 1576	2490 2494 2007	2910 3074 2473	3420 3655 2938
31 1550	1984 1458 1181	2263 2017 1629	2573 2577 2074	3007 3177 2555	3534 3777 3036
32 1600	2048 1505 1219	2336 2082 1681	2656 2660 2141	3104 3279 2638	3648 3899 3134
33 1650	2112 1552 1257	2409 2147 1734	2739 2743 2208	3201 3382 2720	3762 4020 3232
34 1700	2176 1599 1295	2482 2212 1786	2822 2826 2275	3298 3484 2803	3876 4142 3330
35 1750	2240 1646 1333	2555 2277 1839	2905 2909 2341	3395 3587 2885	3990 4264 3428
36 1800	2304 1693 1371	2628 2343 1891	2988 2992 2408	3492 3689 2968	4104 4386 3526
37 1850	2368 1740 1409	2701 2408 1944	3071 3075 2475	3589 3792 3050	4218 4508 3624
38 1900	2432 1787 1447	2774 2473 1997	3154 3159 2542	3686 3894 3132	4332 4630 3722
39 1950	2496 1834 1485	2847 2538 2049	3237 3242 2609	3783 3997 3215	4446 4751 3819
40 2000	2560 1881 1524	2920 2603 2102	3320 3325 2676	3880 4099 3297	4560 4873 3917
41 2050	2624 1928 1562	2993 2668 2154	3403 3408 2743	3977 4202 3380	4674 4995 4015
42 2100	2688 1975 1600	3066 2733 2207	3486 3491 2810	4074 4304 3462	4788 5117 4113
43 2150	2752 2022 1638	3139 2798 2259	3569 3574 2877	4171 4407 3545	4902 5239 4211
44 2200	2816 2069 1676	3212 2863 2312	3652 3657 2944	4268 4509 3627	5016 5361 4309
45 2250	2880 2116 1714	3285 2928 2364	3735 3740 3010	4365 4612 3709	5130 5482 4407
46 2300	2944 2163 1752	3358 2993 2417	3818 3824 3077	4462 4714 3792	5244 5604 4505
47 2350	3008 2210 1790	3431 3058 2469	3901 3907 3144	4559 4817 3874	5358 5726 4603
48 2400	3072 2257 1828	3504 3123 2522	3984 3990 3211	4656 4919 3957	5472 5848 4701
49 2450	3136 2304 1866	3577 3188 2574	4067 4073 3278	4753 5022 4039	5586 5970 4799
50 2500	3200 2351 1904	3650 3254 2627	4150 4156 3345	4850 5124 4122	5700 6092 4897

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	25	34	43	53	63
n value	1.2415	1.2604	1.2793	1.2829	1.2865
weight [kg/segment]	0.98	1.46	1.94	2.42	2.91
cap. [l/segment]	0.66	0.96	1.26	1.55	1.85

	25	34	43	53	63
	1.2415	1.2604	1.2793	1.2829	1.2865
	0.98	1.46	1.94	2.42	2.91
	0.66	0.96	1.26	1.55	1.85

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 665 mm

column radiators

H [mm]	665									
number of columns B [mm] type	2 63 DL2067..	3 101 DL3067..	4 139 DL4067..	5 177 DL5067..	6 215 DL6067..					
PLN/segment	66	76	93	112	127					
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]					
4 200	264 207 167	304 285 230	372 364 292	448 449 361	508 534 429					
5 250	330 258 209	380 357 288	465 455 366	560 561 451	635 667 536					
6 300	396 310 251	456 428 345	558 546 439	672 673 541	762 801 643					
7 350	462 361 293	532 499 403	651 637 512	784 785 631	889 934 750					
8 400	528 413 334	608 570 460	744 728 585	896 898 721	1016 1067 857					
9 450	594 465 376	684 642 518	837 819 658	1008 1010 811	1143 1201 964					
10 500	660 516 418	760 713 575	930 910 731	1120 1122 901	1270 1334 1071					
11 550	726 568 460	836 784 633	1023 1001 804	1232 1234 991	1397 1468 1178					
12 600	792 620 502	912 856 690	1116 1092 877	1344 1346 1082	1524 1601 1286					
13 650	858 671 543	988 927 748	1209 1183 950	1456 1459 1172	1651 1734 1393					
14 700	924 723 585	1064 998 805	1302 1274 1024	1568 1571 1262	1778 1868 1500					
15 750	990 775 627	1140 1070 863	1395 1365 1097	1680 1683 1352	1905 2001 1607					
16 800	1056 826 669	1216 1141 920	1488 1456 1170	1792 1795 1442	2032 2135 1714					
17 850	1122 878 711	1292 1212 978	1581 1546 1243	1904 1907 1532	2159 2268 1821					
18 900	1188 930 752	1368 1284 1035	1674 1637 1316	2016 2020 1622	2286 2402 1928					
19 950	1254 981 794	1444 1355 1093	1767 1728 1389	2128 2132 1713	2413 2535 2036					
20 1000	1320 1033 836	1520 1426 1150	1860 1819 1462	2240 2244 1803	2540 2668 2143					
21 1050	1386 1084 878	1596 1498 1208	1953 1910 1535	2352 2356 1893	2667 2802 2250					
22 1100	1452 1136 920	1672 1569 1265	2046 2001 1608	2464 2468 1983	2794 2935 2357					
23 1150	1518 1188 961	1748 1640 1323	2139 2092 1681	2576 2581 2073	2921 3069 2464					
24 1200	1584 1239 1003	1824 1711 1380	2232 2183 1755	2688 2693 2163	3048 3202 2571					
25 1250	1650 1291 1045	1900 1783 1438	2325 2274 1828	2800 2805 2253	3175 3336 2678					
26 1300	1716 1343 1087	1976 1854 1495	2418 2365 1901	2912 2917 2343	3302 3469 2786					
27 1350	1782 1394 1129	2052 1925 1553	2511 2456 1974	3024 3029 2434	3429 3602 2893					

H [mm]	665									
number of columns B [mm] type	2 63 DL2067..	3 101 DL3067..	4 139 DL4067..	5 177 DL5067..	6 215 DL6067..					
PLN/segment	66	76	93	112	127					
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]					
28 1400	1848 1446 1170	2128 1997 1610	2604 2547 2047	3136 3142 2524	3556 3736 3000					
29 1450	1914 1498 1212	2204 2068 1668	2697 2638 2120	3248 3254 2614	3683 3869 3107					
30 1500	1980 1549 1254	2280 2139 1725	2790 2729 2193	3360 3366 2704	3810 4003 3214					
31 1550	2046 1601 1296	2356 2211 1783	2883 2820 2266	3472 3478 2794	3937 4136 3321					
32 1600	2112 1652 1338	2432 2282 1840	2976 2911 2339	3584 3590 2884	4064 4269 3428					
33 1650	2178 1704 1379	2508 2353 1898	3069 3002 2413	3696 3703 2974	4191 4403 3535					
34 1700	2244 1756 1421	2584 2425 1956	3162 3093 2486	3808 3815 3065	4318 4536 3643					
35 1750	2310 1807 1463	2660 2496 2013	3255 3184 2559	3920 3927 3155	4445 4670 3750					
36 1800	2376 1859 1505	2736 2567 2071	3348 3275 2632	4032 4039 3245	4572 4803 3857					
37 1850	2442 1911 1547	2812 2638 2128	3441 3366 2705	4144 4151 3335	4699 4937 3964					
38 1900	2508 1962 1588	2888 2710 2186	3534 3457 2778	4256 4264 3425	4826 5070 4071					
39 1950	2574 2014 1630	2964 2781 2243	3627 3548 2851	4368 4376 3515	4953 5203 4178					
40 2000	2640 2066 1672	3040 2852 2301	3720 3639 2924	4480 4488 3605	5080 5337 4285					
41 2050	2706 2117 1714	3116 2924 2358	3813 3730 2997	4592 4600 3695	5207 5470 4393					
42 2100	2772 2169 1756	3192 2995 2416	3906 3821 3071	4704 4712 3786	5334 5604 4500					
43 2150	2838 2221 1797	3268 3066 2473	3999 3912 3144	4816 4825 3876	5461 5737 4607					
44 2200	2904 2272 1839	3344 3138 2531	4092 4003 3217	4928 4937 3966	5588 5870 4714					
45 2250	2970 2324 1881	3420 3209 2588	4185 4094 3290	5040 5049 4056	5715 6004 4821					
46 2300	3036 2375 1923	3496 3280 2646	4278 4185 3363	5152 5161 4146	5842 6137 4928					
47 2350	3102 2427 1965	3572 3352 2703	4371 4276 3436	5264 5273 4236	5969 6271 5035					
48 2400	3168 2479 2006	3648 3423 2761	4464 4367 3509	5376 5386 4326	6096 6404 5143					
49 2450	3234 2530 2048	3724 3494 2818	4557 4458 3582	5488 5498 4417	6223 6538 5250					
50 2500	3300 2582 2090	3800 3566 2876	4650 4549 3655	5600 5610 4507	6350 6671 5357					

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	27	37	47	58	68
n value	1.2457	1.2669	1.2881	1.2905	1.2929
weight [kg/segment]	1.08	1.60	2.14	2.66	3.20
cap. [l/segment]	0.72	1.04	1.37	1.69	2.01

	27	37	47	58	68
	1.2457	1.2669	1.2881	1.2905	1.2929
	1.08	1.60	2.14	2.66	3.20
	0.72	1.04	1.37	1.69	2.01

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 264 207
167 — [W] 75/65/20°C
— [W] 70/55/20°C

H [mm]	750				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2075..	DL3075..	DL4075..	DL5075..	DL6075..	
PLN/segment	68	78	95	112	130
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	272 231 186	312 318 256	380 405 325	448 499 400	520 594 476
5 250	340 288 233	390 397 320	475 506 406	560 624 500	650 742 595
6 300	408 346 280	468 476 384	570 607 487	672 749 601	780 891 714
7 350	476 404 326	546 556 448	665 708 568	784 874 701	910 1039 833
8 400	544 461 373	624 635 512	760 809 649	896 998 801	1040 1188 952
9 450	612 519 420	702 715 576	855 910 730	1008 1123 901	1170 1336 1071
10 500	680 577 466	780 794 640	950 1012 811	1120 1248 1001	1300 1485 1190
11 550	748 634 513	858 873 703	1045 1113 893	1232 1373 1101	1430 1633 1309
12 600	816 692 559	936 953 767	1140 1214 974	1344 1498 1201	1560 1781 1429
13 650	884 749 606	1014 1032 831	1235 1315 1055	1456 1622 1301	1690 1930 1548
14 700	952 807 653	1092 1112 895	1330 1416 1136	1568 1747 1401	1820 2078 1667
15 750	1020 865 699	1170 1191 959	1425 1517 1217	1680 1872 1501	1950 2227 1786
16 800	1088 922 746	1248 1270 1023	1520 1618 1298	1792 1997 1602	2080 2375 1905
17 850	1156 980 793	1326 1350 1087	1615 1720 1379	1904 2122 1702	2210 2524 2024
18 900	1224 1038 839	1404 1429 1151	1710 1821 1461	2016 2246 1802	2340 2672 2143
19 950	1292 1095 886	1482 1509 1215	1805 1922 1542	2128 2371 1902	2470 2821 2262
20 1000	1360 1153 932	1560 1588 1279	1900 2023 1623	2240 2496 2002	2600 2969 2381
21 1050	1428 1211 979	1638 1667 1343	1995 2124 1704	2352 2621 2102	2730 3117 2500
22 1100	1496 1268 1026	1716 1747 1407	2090 2225 1785	2464 2746 2202	2860 3266 2619
23 1150	1564 1326 1072	1794 1826 1471	2185 2326 1866	2576 2870 2302	2990 3414 2738
24 1200	1632 1384 1119	1872 1906 1535	2280 2428 1947	2688 2995 2402	3120 3563 2857
25 1250	1700 1441 1166	1950 1985 1599	2375 2529 2029	2800 3120 2502	3250 3711 2976
26 1300	1768 1499 1212	2028 2064 1663	2470 2630 2110	2912 3245 2603	3380 3860 3095
27 1350	1836 1557 1259	2106 2144 1727	2565 2731 2191	3024 3370 2703	3510 4008 3214

H [mm]	750				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2075..	DL3075..	DL4075..	DL5075..	DL6075..	
PLN/segment	68	78	95	112	130
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	1904 1614 1305	2184 2223 1791	2660 2832 2272	3136 3494 2803	3640 4157 3333
29 1450	1972 1672 1352	2262 2303 1855	2755 2933 2353	3248 3619 2903	3770 4305 3452
30 1500	2040 1730 1399	2340 2382 1919	2850 3035 2434	3360 3744 3003	3900 4454 3571
31 1550	2108 1787 1445	2418 2461 1983	2945 3136 2515	3472 3869 3103	4030 4602 3690
32 1600	2176 1845 1492	2496 2541 2046	3040 3237 2597	3584 3994 3203	4160 4750 3809
33 1650	2244 1902 1538	2574 2620 2110	3135 3338 2678	3696 4118 3303	4290 4899 3928
34 1700	2312 1960 1585	2652 2700 2174	3230 3439 2759	3808 4243 3403	4420 5047 4048
35 1750	2380 2018 1632	2730 2779 2238	3325 3540 2840	3920 4368 3503	4550 5196 4167
36 1800	2448 2075 1678	2808 2858 2302	3420 3641 2921	4032 4493 3604	4680 5344 4286
37 1850	2516 2133 1725	2886 2938 2366	3515 3743 3002	4144 4618 3704	4810 5493 4405
38 1900	2584 2191 1772	2964 3017 2430	3610 3844 3083	4256 4742 3804	4940 5641 4524
39 1950	2652 2248 1818	3042 3097 2494	3705 3945 3165	4368 4867 3904	5070 5790 4643
40 2000	2720 2306 1865	3120 3176 2558	3800 4046 3246	4480 4992 4004	5200 5938 4762
41 2050	2788 2364 1911	3198 3255 2622	3895 4147 3327	4592 5117 4104	5330 6086 4881
42 2100	2856 2421 1958	3276 3335 2686	3990 4248 3408	4704 5242 4204	5460 6235 5000
43 2150	2924 2479 2005	3354 3414 2750	4085 4349 3489	4816 5366 4304	5590 6383 5119
44 2200	2992 2537 2051	3432 3494 2814	4180 4451 3570	4928 5491 4404	5720 6532 5238
45 2250	3060 2594 2098	3510 3573 2878	4275 4552 3652	5040 5616 4504	5850 6680 5357
46 2300	3128 2652 2145	3588 3652 2942	4370 4653 3733	5152 5741 4605	5980 6829 5476
47 2350	3196 2710 2191	3666 3732 3006	4465 4754 3814	5264 5866 4705	6110 6977 5595
48 2400	3264 2767 2238	3744 3811 3070	4560 4855 3895	5376 5990 4805	6240 7126 5714
49 2450	3332 2825 2284	3822 3891 3134	4655 4956 3976	5488 6115 4905	6370 7274 5833
50 2500	3400 2883 2331	3900 3970 3198	4750 5058 4057	5600 6240 5005	6500 7423 5952

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	30	41	52	64	76
n value	1.2513	1.2750	1.2986	1.2997	1.3008
weight [kg/segment]	1.21	1.79	2.39	2.97	3.58
cap. [l/segment]	0.80	1.15	1.51	1.86	2.22

	30	41	52	64	76
	1.2513	1.2750	1.2986	1.2997	1.3008
	1.21	1.79	2.39	2.97	3.58
	0.80	1.15	1.51	1.86	2.22

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 900 mm

column radiators

H [mm]	900				
number of columns B [mm] type	2 63 DL2090..	3 101 DL3090..	4 139 DL4090..	5 177 DL5090..	6 215 DL6090..
PLN/segment	72	84	108	126	147
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	288 273 220	336 374 301	432 476 381	504 587 470	588 699 559
5 250	360 341 275	420 468 376	540 595 476	630 734 587	735 873 699
6 300	432 409 330	504 561 451	648 714 571	756 881 705	882 1048 839
7 350	504 478 386	588 655 526	756 832 666	882 1028 822	1029 1223 978
8 400	576 546 441	672 749 602	864 951 761	1008 1174 940	1176 1397 1118
9 450	648 614 496	756 842 677	972 1070 856	1134 1321 1057	1323 1572 1258
10 500	720 682 551	840 936 752	1080 1189 951	1260 1468 1175	1470 1747 1398
11 550	792 750 606	924 1029 827	1188 1308 1047	1386 1615 1292	1617 1921 1537
12 600	864 819 661	1008 1123 902	1296 1427 1142	1512 1761 1409	1764 2096 1677
13 650	936 887 716	1092 1216 978	1404 1546 1237	1638 1908 1527	1911 2270 1817
14 700	1008 955 771	1176 1310 1053	1512 1665 1332	1764 2055 1644	2058 2445 1957
15 750	1080 1023 826	1260 1404 1128	1620 1784 1427	1890 2202 1762	2205 2620 2096
16 800	1152 1092 881	1344 1497 1203	1728 1903 1522	2016 2349 1879	2352 2794 2236
17 850	1224 1160 936	1428 1591 1278	1836 2022 1617	2142 2495 1997	2499 2969 2376
18 900	1296 1228 991	1512 1684 1354	1944 2141 1713	2268 2642 2114	2646 3144 2516
19 950	1368 1296 1046	1596 1778 1429	2052 2259 1808	2394 2789 2232	2793 3318 2656
20 1000	1440 1364 1101	1680 1871 1504	2160 2378 1903	2520 2936 2349	2940 3493 2795
21 1050	1512 1433 1157	1764 1965 1579	2268 2497 1998	2646 3083 2467	3087 3668 2935
22 1100	1584 1501 1212	1848 2059 1654	2376 2616 2093	2772 3229 2584	3234 3842 3075
23 1150	1656 1569 1267	1932 2152 1730	2484 2735 2188	2898 3376 2701	3381 4017 3215
24 1200	1728 1637 1322	2016 2246 1805	2592 2854 2283	3024 3523 2819	3528 4192 3354
25 1250	1800 1706 1377	2100 2339 1880	2700 2973 2378	3150 3670 2936	3675 4366 3494
26 1300	1872 1774 1432	2184 2433 1955	2808 3092 2474	3276 3817 3054	3822 4541 3634
27 1350	1944 1842 1487	2268 2526 2030	2916 3211 2569	3402 3963 3171	3969 4716 3774

H [mm]	900				
number of columns B [mm] type	2 63 DL2090..	3 101 DL3090..	4 139 DL4090..	5 177 DL5090..	6 215 DL6090..
PLN/segment	72	84	108	126	147
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	2016 1910 1542	2352 2620 2106	3024 3330 2664	3528 4110 3289	4116 4890 3913
29 1450	2088 1978 1597	2436 2714 2181	3132 3449 2759	3654 4257 3406	4263 5065 4053
30 1500	2160 2047 1652	2520 2807 2256	3240 3568 2854	3780 4404 3524	4410 5240 4193
31 1550	2232 2115 1707	2604 2901 2331	3348 3687 2949	3906 4550 3641	4557 5414 4333
32 1600	2304 2183 1762	2688 2994 2406	3456 3805 3044	4032 4697 3758	4704 5589 4472
33 1650	2376 2251 1817	2772 3088 2482	3564 3924 3140	4158 4844 3876	4851 5763 4612
34 1700	2448 2319 1872	2856 3181 2557	3672 4043 3235	4284 4991 3993	4998 5938 4752
35 1750	2520 2388 1928	2940 3275 2632	3780 4162 3330	4410 5138 4111	5145 6113 4892
36 1800	2592 2456 1983	3024 3369 2707	3888 4281 3425	4536 5284 4228	5292 6287 5031
37 1850	2664 2524 2038	3108 3462 2782	3996 4400 3520	4662 5431 4346	5439 6462 5171
38 1900	2736 2592 2093	3192 3556 2858	4104 4519 3615	4788 5578 4463	5586 6637 5311
39 1950	2808 2661 2148	3276 3649 2933	4212 4638 3710	4914 5725 4581	5733 6811 5451
40 2000	2880 2729 2203	3360 3743 3008	4320 4757 3806	5040 5872 4698	5880 6986 5591
41 2050	2952 2797 2258	3444 3836 3083	4428 4876 3901	5166 6018 4816	6027 7161 5730
42 2100	3024 2865 2313	3528 3930 3158	4536 4995 3996	5292 6165 4933	6174 7335 5870
43 2150	3096 2933 2368	3612 4024 3234	4644 5114 4091	5418 6312 5050	6321 7510 6010
44 2200	3168 3002 2423	3696 4117 3309	4752 5232 4186	5544 6459 5168	6468 7685 6150
45 2250	3240 3070 2478	3780 4211 3384	4860 5351 4281	5670 6606 5285	6615 7859 6289
46 2300	3312 3138 2533	3864 4304 3459	4968 5470 4376	5796 6752 5403	6762 8034 6429
47 2350	3384 3206 2588	3948 4398 3534	5076 5589 4472	5922 6899 5520	6909 8209 6569
48 2400	3456 3275 2644	4032 4491 3609	5184 5708 4567	6048 7046 5638	7056 8383 6709
49 2450	3528 3343 2699	4116 4585 3685	5292 5827 4662	6174 7193 5755	7203 8558 6848
50 2500	3600 3411 2754	4200 4679 3760	5400 5946 4757	6300 7340 5873	7350 8733 6988

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	36	48	60	74	89
n value	1.2615	1.2881	1.3147	1.3139	1.3131
weight [kg/segment]	1.44	2.13	2.84	3.53	4.24
cap. [l/segment]	0.93	1.34	1.76	2.17	2.59

	36	48	60	74	89
	1.2615	1.2881	1.3147	1.3139	1.3131
	1.44	2.13	2.84	3.53	4.24
	0.93	1.34	1.76	2.17	2.59

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 288 273 — [W] 75/65/20°C
220 — [W] 70/55/20°C

H [mm]	965				
number of columns B [mm] type	2 63 DL2097..	3 101 DL3097..	4 139 DL4097..		6 215 DL6097..
PLN/segment	73	88	116		157
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	292 291 235	352 399 320	464 506 405		628 744 595
5 250	365 364 294	440 498 400	580 633 506		785 930 743
6 300	438 437 352	528 598 480	696 759 607		942 1115 892
7 350	511 510 411	616 698 560	812 886 708		1099 1301 1041
8 400	584 582 470	704 798 640	928 1013 809		1256 1487 1189
9 450	657 655 529	792 897 720	1044 1139 910		1413 1673 1338
10 500	730 728 587	880 997 800	1160 1266 1012		1570 1859 1487
11 550	803 801 646	968 1097 880	1276 1392 1113		1727 2045 1635
12 600	876 874 705	1056 1196 961	1392 1519 1214		1884 2231 1784
13 650	949 946 763	1144 1296 1041	1508 1645 1315		2041 2417 1932
14 700	1022 1019 822	1232 1396 1121	1624 1772 1416		2198 2603 2081
15 750	1095 1092 881	1320 1495 1201	1740 1899 1517		2355 2789 2230
16 800	1168 1165 940	1408 1595 1281	1856 2025 1619		2512 2975 2378
17 850	1241 1238 998	1496 1695 1361	1972 2152 1720		2669 3160 2527
18 900	1314 1310 1057	1584 1794 1441	2088 2278 1821		2826 3346 2676
19 950	1387 1383 1116	1672 1894 1521	2204 2405 1922		2983 3532 2824
20 1000	1460 1456 1175	1760 1994 1601	2320 2531 2023		3140 3718 2973
21 1050	1533 1529 1233	1848 2093 1681	2436 2658 2124		3297 3904 3122
22 1100	1606 1602 1292	1936 2193 1761	2552 2785 2225		3454 4090 3270
23 1150	1679 1674 1351	2024 2293 1841	2668 2911 2327		3611 4276 3419
24 1200	1752 1747 1409	2112 2393 1921	2784 3038 2428		3768 4462 3568
25 1250	1825 1820 1468	2200 2492 2001	2900 3164 2529		3925 4648 3716
26 1300	1898 1893 1527	2288 2592 2081	3016 3291 2630		4082 4834 3865
27 1350	1971 1966 1586	2376 2692 2161	3132 3417 2731		4239 5020 4014

	965				
	2 63 DL2097..	3 101 DL3097..	4 139 DL4097..		6 215 DL6097..
	73	88	116		157
	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	2044 2038 1644	2464 2791 2241	3248 3544 2832		4396 5205 4162
29 1450	2117 2111 1703	2552 2891 2321	3364 3671 2934		4553 5391 4311
30 1500	2190 2184 1762	2640 2991 2401	3480 3797 3035		4710 5577 4460
31 1550	2263 2257 1820	2728 3090 2481	3596 3924 3136		4867 5763 4608
32 1600	2336 2330 1879	2816 3190 2561	3712 4050 3237		5024 5949 4757
33 1650	2409 2402 1938	2904 3290 2641	3828 4177 3338		5181 6135 4906
34 1700	2482 2475 1997	2992 3389 2721	3944 4303 3439		5338 6321 5054
35 1750	2555 2548 2055	3080 3489 2802	4060 4430 3540		5495 6507 5203
36 1800	2628 2621 2114	3168 3589 2882	4176 4557 3642		5652 6693 5352
37 1850	2701 2694 2173	3256 3689 2962	4292 4683 3743		5809 6879 5500
38 1900	2774 2766 2232	3344 3788 3042	4408 4810 3844		5966 7065 5649
39 1950	2847 2839 2290	3432 3888 3122	4524 4936 3945		6123 7250 5797
40 2000	2920 2912 2349	3520 3988 3202	4640 5063 4046		6280 7436 5946
41 2050	2993 2985 2408	3608 4087 3282	4756 5189 4147		6437 7622 6095
42 2100	3066 3058 2466	3696 4187 3362	4872 5316 4249		6594 7808 6243
43 2150	3139 3130 2525	3784 4287 3442	4988 5443 4350		6751 7994 6392
44 2200	3212 3203 2584	3872 4386 3522	5104 5569 4451		6908 8180 6541
45 2250	3285 3276 2643	3960 4486 3602	5220 5696 4552		7065 8366 6689
46 2300	3358 3349 2701	4048 4586 3682	5336 5822 4653		7222 8552 6838
47 2350	3431 3422 2760	4136 4685 3762	5452 5949 4754		7379 8738 6987
48 2400	3504 3494 2819	4224 4785 3842	5568 6075 4856		7536 8924 7135
49 2450	3577 3567 2878	4312 4885 3922	5684 6202 4957		7693 9110 7284
50 2500	3650 3640 2936	4400 4985 4002	5800 6329 5058		7850 9296 7433

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	38	51	64		94
n value	1.2660	1.2934	1.3207		1.3179
weight [kg/segment]	1.54	2.28	3.04		4.53
cap. [l/segment]	0.99	1.42	1.87		2.75

	38	51	64		94
	1.2660	1.2934	1.3207		1.3179
	1.54	2.28	3.04		4.53
	0.99	1.42	1.87		2.75

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 1000 mm

column radiators

H [mm]	1000				
number of columns B [mm] type	2 63 DL2100..	3 101 DL3100..	4 139 DL4100..	5 177 DL5100..	6 215 DL6100..
PLN/segment	74	88	116	135	158
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	296 301 243	352 412 331	464 523 418	540 645 516	632 768 614
5 250	370 376 303	440 515 413	580 653 522	675 807 644	790 960 767
6 300	444 452 364	528 618 496	696 784 626	810 968 773	948 1152 921
7 350	518 527 425	616 721 578	812 915 731	945 1129 902	1106 1344 1074
8 400	592 602 485	704 824 661	928 1045 835	1080 1290 1031	1264 1536 1227
9 450	666 677 546	792 927 744	1044 1176 939	1215 1452 1160	1422 1728 1381
10 500	740 753 607	880 1030 826	1160 1307 1044	1350 1613 1289	1580 1920 1534
11 550	814 828 668	968 1133 909	1276 1437 1148	1485 1774 1418	1738 2111 1688
12 600	888 903 728	1056 1236 992	1392 1568 1253	1620 1936 1547	1896 2303 1841
13 650	962 978 789	1144 1339 1074	1508 1699 1357	1755 2097 1676	2054 2495 1994
14 700	1036 1054 850	1232 1442 1157	1624 1829 1461	1890 2258 1805	2212 2687 2148
15 750	1110 1129 910	1320 1545 1240	1740 1960 1566	2025 2420 1933	2370 2879 2301
16 800	1184 1204 971	1408 1648 1322	1856 2091 1670	2160 2581 2062	2528 3071 2455
17 850	1258 1279 1032	1496 1750 1405	1972 2221 1774	2295 2742 2191	2686 3263 2608
18 900	1332 1355 1092	1584 1853 1488	2088 2352 1879	2430 2904 2320	2844 3455 2762
19 950	1406 1430 1153	1672 1956 1570	2204 2483 1983	2565 3065 2449	3002 3647 2915
20 1000	1480 1505 1214	1760 2059 1653	2320 2613 2088	2700 3226 2578	3160 3839 3068
21 1050	1554 1580 1274	1848 2162 1735	2436 2744 2192	2835 3388 2707	3318 4031 3222
22 1100	1628 1656 1335	1936 2265 1818	2552 2875 2296	2970 3549 2836	3476 4223 3375
23 1150	1702 1731 1396	2024 2368 1901	2668 3005 2401	3105 3710 2965	3634 4415 3529
24 1200	1776 1806 1456	2112 2471 1983	2784 3136 2505	3240 3871 3093	3792 4607 3682
25 1250	1850 1882 1517	2200 2574 2066	2900 3267 2610	3375 4033 3222	3950 4799 3836
26 1300	1924 1957 1578	2288 2677 2149	3016 3397 2714	3510 4194 3351	4108 4991 3989
27 1350	1998 2032 1639	2376 2780 2231	3132 3528 2818	3645 4355 3480	4266 5183 4142

H [mm]	1000				
number of columns B [mm] type	2 63 DL2100..	3 101 DL3100..	4 139 DL4100..	5 177 DL5100..	6 215 DL6100..
PLN/segment	74	88	116	135	158
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	2072 2107 1699	2464 2883 2314	3248 3659 2923	3780 4517 3609	4424 5375 4296
29 1450	2146 2183 1760	2552 2986 2397	3364 3789 3027	3915 4678 3738	4582 5567 4449
30 1500	2220 2258 1821	2640 3089 2479	3480 3920 3131	4050 4839 3867	4740 5759 4603
31 1550	2294 2333 1881	2728 3192 2562	3596 4051 3236	4185 5001 3996	4898 5950 4756
32 1600	2368 2408 1942	2816 3295 2644	3712 4181 3340	4320 5162 4125	5056 6142 4909
33 1650	2442 2484 2003	2904 3398 2727	3828 4312 3445	4455 5323 4253	5214 6334 5063
34 1700	2516 2559 2063	2992 3501 2810	3944 4443 3549	4590 5485 4382	5372 6526 5216
35 1750	2590 2634 2124	3080 3604 2892	4060 4573 3653	4725 5646 4511	5530 6718 5370
36 1800	2664 2709 2185	3168 3707 2975	4176 4704 3758	4860 5807 4640	5688 6910 5523
37 1850	2738 2785 2245	3256 3810 3058	4292 4835 3862	4995 5968 4769	5846 7102 5677
38 1900	2812 2860 2306	3344 3913 3140	4408 4965 3966	5130 6130 4898	6004 7294 5830
39 1950	2886 2935 2367	3432 4016 3223	4524 5096 4071	5265 6291 5027	6162 7486 5983
40 2000	2960 3010 2427	3520 4119 3306	4640 5227 4175	5400 6452 5156	6320 7678 6137
41 2050	3034 3086 2488	3608 4222 3388	4756 5357 4280	5535 6614 5285	6478 7870 6290
42 2100	3108 3161 2549	3696 4325 3471	4872 5488 4384	5670 6775 5414	6636 8062 6444
43 2150	3182 3236 2609	3784 4428 3554	4988 5619 4488	5805 6936 5542	6794 8254 6597
44 2200	3256 3311 2670	3872 4531 3636	5104 5749 4593	5940 7098 5671	6952 8446 6750
45 2250	3330 3387 2731	3960 4634 3719	5220 5880 4697	6075 7259 5800	7110 8638 6904
46 2300	3404 3462 2792	4048 4737 3801	5336 6011 4802	6210 7420 5929	7268 8830 7057
47 2350	3478 3537 2852	4136 4840 3884	5452 6141 4906	6345 7582 6058	7426 9022 7211
48 2400	3552 3612 2913	4224 4943 3967	5568 6272 5010	6480 7743 6187	7584 9214 7364
49 2450	3626 3688 2974	4312 5046 4049	5684 6403 5115	6615 7904 6316	7742 9406 7518
50 2500	3700 3763 3034	4400 5149 4132	5800 6534 5219	6750 8066 6445	7900 9598 7671

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	39	53	66	81	97
n value	1.2684	1.2961	1.3237	1.3220	1.3203
weight [kg/segment]	1.59	2.36	3.14	3.91	4.69
cap. [l/segment]	1.02	1.47	1.93	2.38	2.84

	39	53	66	81	97
	1.2684	1.2961	1.3237	1.3220	1.3203
	1.59	2.36	3.14	3.91	4.69
	1.02	1.47	1.93	2.38	2.84

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 296 301 — [W] 75/65/20°C
— 243 — [W] 70/55/20°C

H [mm]	1065				
number of columns B [mm] type		3 101 DL3107..	4 139 DL4107..	5 177 DL5107..	6 215 DL6107..
PLN/segment		98	129	153	180
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200		392 436 350	516 553 441	612 683 545	720 813 649
5 250		490 545 437	645 691 552	765 854 682	900 1016 811
6 300		588 654 525	774 830 662	918 1024 818	1080 1219 974
7 350		686 763 612	903 968 773	1071 1195 954	1260 1422 1136
8 400		784 873 700	1032 1106 883	1224 1366 1090	1440 1625 1298
9 450		882 982 787	1161 1245 993	1377 1536 1227	1620 1828 1460
10 500		980 1091 875	1290 1383 1104	1530 1707 1363	1800 2032 1623
11 550		1078 1200 962	1419 1521 1214	1683 1878 1499	1980 2235 1785
12 600		1176 1309 1050	1548 1659 1324	1836 2049 1636	2160 2438 1947
13 650		1274 1418 1137	1677 1798 1435	1989 2219 1772	2340 2641 2109
14 700		1372 1527 1224	1806 1936 1545	2142 2390 1908	2520 2844 2272
15 750		1470 1636 1312	1935 2074 1656	2295 2561 2045	2700 3047 2434
16 800		1568 1745 1399	2064 2213 1766	2448 2732 2181	2880 3250 2596
17 850		1666 1854 1487	2193 2351 1876	2601 2902 2317	3060 3454 2758
18 900		1764 1963 1574	2322 2489 1987	2754 3073 2453	3240 3657 2921
19 950		1862 2072 1662	2451 2628 2097	2907 3244 2590	3420 3860 3083
20 1000		1960 2181 1749	2580 2766 2207	3060 3414 2726	3600 4063 3245
21 1050		2058 2290 1837	2709 2904 2318	3213 3585 2862	3780 4266 3407
22 1100		2156 2400 1924	2838 3042 2428	3366 3756 2999	3960 4469 3570
23 1150		2254 2509 2012	2967 3181 2539	3519 3927 3135	4140 4672 3732
24 1200		2352 2618 2099	3096 3319 2649	3672 4097 3271	4320 4876 3894
25 1250		2450 2727 2187	3225 3457 2759	3825 4268 3408	4500 5079 4056
26 1300		2548 2836 2274	3354 3596 2870	3978 4439 3544	4680 5282 4219
27 1350		2646 2945 2362	3483 3734 2980	4131 4609 3680	4860 5485 4381

	1065				
		3 101 DL3107..	4 139 DL4107..	5 177 DL5107..	6 215 DL6107..
		98	129	153	180
	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400		2744 3054 2449	3612 3872 3090	4284 4780 3817	5040 5688 4543
29 1450		2842 3163 2536	3741 4010 3201	4437 4951 3953	5220 5891 4705
30 1500		2940 3272 2624	3870 4149 3311	4590 5122 4089	5400 6095 4868
31 1550		3038 3381 2711	3999 4287 3422	4743 5292 4225	5580 6298 5030
32 1600		3136 3490 2799	4128 4425 3532	4896 5463 4362	5760 6501 5192
33 1650		3234 3599 2886	4257 4564 3642	5049 5634 4498	5940 6704 5354
34 1700		3332 3708 2974	4386 4702 3753	5202 5804 4634	6120 6907 5517
35 1750		3430 3817 3061	4515 4840 3863	5355 5975 4771	6300 7110 5679
36 1800		3528 3927 3149	4644 4978 3973	5508 6146 4907	6480 7313 5841
37 1850		3626 4036 3236	4773 5117 4084	5661 6317 5043	6660 7517 6003
38 1900		3724 4145 3324	4902 5255 4194	5814 6487 5180	6840 7720 6166
39 1950		3822 4254 3411	5031 5393 4305	5967 6658 5316	7020 7923 6328
40 2000		3920 4363 3499	5160 5532 4415	6120 6829 5452	7200 8126 6490
41 2050		4018 4472 3586	5289 5670 4525	6273 7000 5588	7380 8329 6653
42 2100		4116 4581 3673	5418 5808 4636	6426 7170 5725	7560 8532 6815
43 2150		4214 4690 3761	5547 5946 4746	6579 7341 5861	7740 8735 6977
44 2200		4312 4799 3848	5676 6085 4856	6732 7512 5997	7920 8939 7139
45 2250		4410 4908 3936	5805 6223 4967	6885 7682 6134	8100 9142 7302
46 2300		4508 5017 4023	5934 6361 5077	7038 7853 6270	8280 9345 7464
47 2350		4606 5126 4111	6063 6500 5187	7191 8024 6406	8460 9548 7626
48 2400		4704 5235 4198	6192 6638 5298	7344 8195 6543	8640 9751 7788
49 2450		4802 5344 4286	6321 6776 5408	7497 8365 6679	8820 9954 7951
50 2500		4900 5454 4373	6450 6915 5519	7650 8536 6815	9000 10158 8113

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C		56	70	86	102
n value		1.3009	1.3288	1.3267	1.3245
weight [kg/segment]		2.46	3.24	4.15	4.98
cap. [l/segment]		1.55	2.04	2.52	3.00

		56	70	86	102
		1.3009	1.3288	1.3267	1.3245
		2.46	3.24	4.15	4.98
		1.55	2.04	2.52	3.00

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 1100 mm

column radiators

H [mm]	1100				
number of columns B [mm] type	2 63 DL2110..	3 101 DL3110..	4 139 DL4110..	5 177 DL5110..	6 215 DL6110..
PLN/segment	79	101	132	158	186
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	316 329 265	404 449 360	528 570 454	632 703 561	744 837 668
5 250	395 412 331	505 562 450	660 712 568	790 879 701	930 1046 835
6 300	474 494 398	606 674 540	792 854 682	948 1055 842	1116 1255 1002
7 350	553 576 464	707 786 630	924 997 795	1106 1230 982	1302 1464 1169
8 400	632 658 530	808 899 720	1056 1139 909	1264 1406 1122	1488 1673 1336
9 450	711 741 597	909 1011 810	1188 1281 1022	1422 1582 1263	1674 1882 1503
10 500	790 823 663	1010 1123 900	1320 1424 1136	1580 1758 1403	1860 2092 1670
11 550	869 905 729	1111 1236 991	1452 1566 1249	1738 1933 1543	2046 2301 1837
12 600	948 988 795	1212 1348 1081	1584 1709 1363	1896 2109 1683	2232 2510 2004
13 650	1027 1070 862	1313 1460 1171	1716 1851 1477	2054 2285 1824	2418 2719 2171
14 700	1106 1152 928	1414 1573 1261	1848 1993 1590	2212 2461 1964	2604 2928 2338
15 750	1185 1235 994	1515 1685 1351	1980 2136 1704	2370 2637 2104	2790 3137 2505
16 800	1264 1317 1061	1616 1797 1441	2112 2278 1817	2528 2812 2244	2976 3347 2672
17 850	1343 1399 1127	1717 1910 1531	2244 2420 1931	2686 2988 2385	3162 3556 2839
18 900	1422 1481 1193	1818 2022 1621	2376 2563 2045	2844 3164 2525	3348 3765 3006
19 950	1501 1564 1259	1919 2134 1711	2508 2705 2158	3002 3340 2665	3534 3974 3173
20 1000	1580 1646 1326	2020 2247 1801	2640 2848 2272	3160 3515 2806	3720 4183 3340
21 1050	1659 1728 1392	2121 2359 1891	2772 2990 2385	3318 3691 2946	3906 4392 3507
22 1100	1738 1811 1458	2222 2471 1981	2904 3132 2499	3476 3867 3086	4092 4602 3674
23 1150	1817 1893 1525	2323 2584 2071	3036 3275 2612	3634 4043 3226	4278 4811 3841
24 1200	1896 1975 1591	2424 2696 2161	3168 3417 2726	3792 4218 3367	4464 5020 4008
25 1250	1975 2058 1657	2525 2809 2251	3300 3560 2840	3950 4394 3507	4650 5229 4175
26 1300	2054 2140 1723	2626 2921 2341	3432 3702 2953	4108 4570 3647	4836 5438 4342
27 1350	2133 2222 1790	2727 3033 2431	3564 3844 3067	4266 4746 3788	5022 5647 4509

H [mm]	1100				
number of columns B [mm] type	2 63 DL2110..	3 101 DL3110..	4 139 DL4110..	5 177 DL5110..	6 215 DL6110..
PLN/segment	79	101	132	158	186
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	2212 2304 1856	2828 3146 2521	3696 3987 3180	4424 4922 3928	5208 5856 4676
29 1450	2291 2387 1922	2929 3258 2611	3828 4129 3294	4582 5097 4068	5394 6066 4843
30 1500	2370 2469 1988	3030 3370 2701	3960 4271 3408	4740 5273 4208	5580 6275 5010
31 1550	2449 2551 2055	3131 3483 2791	4092 4414 3521	4898 5449 4349	5766 6484 5177
32 1600	2528 2634 2121	3232 3595 2882	4224 4556 3635	5056 5625 4489	5952 6693 5344
33 1650	2607 2716 2187	3333 3707 2972	4356 4699 3748	5214 5800 4629	6138 6902 5511
34 1700	2686 2798 2254	3434 3820 3062	4488 4841 3862	5372 5976 4770	6324 7111 5678
35 1750	2765 2881 2320	3535 3932 3152	4620 4983 3976	5530 6152 4910	6510 7321 5845
36 1800	2844 2963 2386	3636 4044 3242	4752 5126 4089	5688 6328 5050	6696 7530 6012
37 1850	2923 3045 2452	3737 4157 3332	4884 5268 4203	5846 6503 5190	6882 7739 6179
38 1900	3002 3127 2519	3838 4269 3422	5016 5410 4316	6004 6679 5331	7068 7948 6346
39 1950	3081 3210 2585	3939 4381 3512	5148 5553 4430	6162 6855 5471	7254 8157 6513
40 2000	3160 3292 2651	4040 4494 3602	5280 5695 4543	6320 7031 5611	7440 8366 6680
41 2050	3239 3374 2718	4141 4606 3692	5412 5838 4657	6478 7207 5752	7626 8576 6847
42 2100	3318 3457 2784	4242 4718 3782	5544 5980 4771	6636 7382 5892	7812 8785 7014
43 2150	3397 3539 2850	4343 4831 3872	5676 6122 4884	6794 7558 6032	7998 8994 7181
44 2200	3476 3621 2916	4444 4943 3962	5808 6265 4998	6952 7734 6172	8184 9203 7348
45 2250	3555 3704 2983	4545 5055 4052	5940 6407 5111	7110 7910 6313	8370 9412 7515
46 2300	3634 3786 3049	4646 5168 4142	6072 6549 5225	7268 8085 6453	8556 9621 7682
47 2350	3713 3868 3115	4747 5280 4232	6204 6692 5339	7426 8261 6593	8742 9831 7849
48 2400	3792 3950 3182	4848 5392 4322	6336 6834 5452	7584 8437 6733	8928 10040 8016
49 2450	3871 4033 3248	4949 5505 4412	6468 6977 5566	7742 8613 6874	9114 10249 8183
50 2500	3950 4115 3314	5050 5617 4502	6600 7119 5679	7900 8789 7014	9300 10458 8350

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	43	57	72	88	105
n value	1.2754	1.3034	1.3314	1.3290	1.3266
weight [kg/segment]	1.75	2.59	3.44	4.28	5.14
cap. [l/segment]	1.11	1.60	2.10	2.59	3.10

	43	57	72	88	105
	1.2754	1.3034	1.3314	1.3290	1.3266
	1.75	2.59	3.44	4.28	5.14
	1.11	1.60	2.10	2.59	3.10

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 316 329 — [W] 75/65/20°C
265 — [W] 70/55/20°C

H [mm]	1200				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2120..	DL3120..	DL4120..	DL5120..	DL6120..	
PLN/segment	87	116	146	180	211
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	348 357 288	464 487 390	584 616 491	720 761 606	844 905 722
5 250	435 447 359	580 609 487	730 770 614	900 951 758	1055 1131 903
6 300	522 536 431	696 730 585	876 924 737	1080 1141 910	1266 1358 1083
7 350	609 625 503	812 852 682	1022 1078 859	1260 1331 1061	1477 1584 1264
8 400	696 715 575	928 974 780	1168 1232 982	1440 1521 1213	1688 1810 1444
9 450	783 804 647	1044 1095 877	1314 1386 1105	1620 1712 1365	1899 2037 1625
10 500	870 894 719	1160 1217 974	1460 1540 1228	1800 1902 1516	2110 2263 1805
11 550	957 983 791	1276 1339 1072	1606 1694 1350	1980 2092 1668	2321 2489 1986
12 600	1044 1072 863	1392 1460 1169	1752 1848 1473	2160 2282 1819	2532 2715 2166
13 650	1131 1162 934	1508 1582 1267	1898 2003 1596	2340 2472 1971	2743 2942 2347
14 700	1218 1251 1006	1624 1704 1364	2044 2157 1719	2520 2662 2123	2954 3168 2527
15 750	1305 1340 1078	1740 1826 1462	2190 2311 1841	2700 2853 2274	3165 3394 2708
16 800	1392 1430 1150	1856 1947 1559	2336 2465 1964	2880 3043 2426	3376 3621 2888
17 850	1479 1519 1222	1972 2069 1656	2482 2619 2087	3060 3233 2578	3587 3847 3069
18 900	1566 1608 1294	2088 2191 1754	2628 2773 2210	3240 3423 2729	3798 4073 3249
19 950	1653 1698 1366	2204 2312 1851	2774 2927 2332	3420 3613 2881	4009 4300 3430
20 1000	1740 1787 1438	2320 2434 1949	2920 3081 2455	3600 3803 3032	4220 4526 3610
21 1050	1827 1876 1509	2436 2556 2046	3066 3235 2578	3780 3994 3184	4431 4752 3791
22 1100	1914 1966 1581	2552 2677 2144	3212 3389 2701	3960 4184 3336	4642 4978 3971
23 1150	2001 2055 1653	2668 2799 2241	3358 3543 2823	4140 4374 3487	4853 5205 4152
24 1200	2088 2144 1725	2784 2921 2339	3504 3697 2946	4320 4564 3639	5064 5431 4332
25 1250	2175 2234 1797	2900 3043 2436	3650 3851 3069	4500 4754 3790	5275 5657 4513
26 1300	2262 2323 1869	3016 3164 2533	3796 4005 3192	4680 4944 3942	5486 5884 4693
27 1350	2349 2412 1941	3132 3286 2631	3942 4159 3314	4860 5135 4094	5697 6110 4874

H [mm]	1200				
number of columns B [mm]	2	3	4	5	6
type	63	101	139	177	215
DL2120..	DL3120..	DL4120..	DL5120..	DL6120..	
PLN/segment	87	116	146	180	211
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	2436 2502 2013	3248 3408 2728	4088 4313 3437	5040 5325 4245	5908 6336 5054
29 1450	2523 2591 2084	3364 3529 2826	4234 4467 3560	5220 5515 4397	6119 6562 5235
30 1500	2610 2681 2156	3480 3651 2923	4380 4621 3683	5400 5705 4549	6330 6789 5415
31 1550	2697 2770 2228	3596 3773 3021	4526 4775 3805	5580 5895 4700	6541 7015 5596
32 1600	2784 2859 2300	3712 3894 3118	4672 4929 3928	5760 6085 4852	6752 7241 5776
33 1650	2871 2949 2372	3828 4016 3216	4818 5083 4051	5940 6276 5003	6963 7468 5957
34 1700	2958 3038 2444	3944 4138 3313	4964 5237 4174	6120 6466 5155	7174 7694 6137
35 1750	3045 3127 2516	4060 4260 3410	5110 5391 4296	6300 6656 5307	7385 7920 6318
36 1800	3132 3217 2588	4176 4381 3508	5256 5545 4419	6480 6846 5458	7596 8146 6498
37 1850	3219 3306 2659	4292 4503 3605	5402 5699 4542	6660 7036 5610	7807 8373 6679
38 1900	3306 3395 2731	4408 4625 3703	5548 5854 4665	6840 7226 5762	8018 8599 6859
39 1950	3393 3485 2803	4524 4746 3800	5694 6008 4787	7020 7417 5913	8229 8825 7040
40 2000	3480 3574 2875	4640 4868 3898	5840 6162 4910	7200 7607 6065	8440 9052 7220
41 2050	3567 3663 2947	4756 4990 3995	5986 6316 5033	7380 7797 6216	8651 9278 7401
42 2100	3654 3753 3019	4872 5111 4092	6132 6470 5156	7560 7987 6368	8862 9504 7581
43 2150	3741 3842 3091	4988 5233 4190	6278 6624 5278	7740 8177 6520	9073 9730 7762
44 2200	3828 3931 3163	5104 5355 4287	6424 6778 5401	7920 8367 6671	9284 9957 7942
45 2250	3915 4021 3234	5220 5477 4385	6570 6932 5524	8100 8558 6823	9495 10183 8123
46 2300	4002 4110 3306	5336 5598 4482	6716 7086 5647	8280 8748 6974	9706 10409 8303
47 2350	4089 4199 3378	5452 5720 4580	6862 7240 5769	8460 8938 7126	9917 10636 8484
48 2400	4176 4289 3450	5568 5842 4677	7008 7394 5892	8640 9128 7278	10128 10862 8664
49 2450	4263 4378 3522	5684 5963 4775	7154 7548 6015	8820 9318 7429	10339 11088 8845
50 2500	4350 4468 3594	5800 6085 4872	7300 7702 6138	9000 9509 7581	10550 11315 9025

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	46	62	77	95	114
n value	1.2823	1.3101	1.3378	1.3350	1.3321
weight [kg/segment]	1.90	2.81	3.74	4.65	5.58
cap. [l/segment]	1.19	1.73	2.27	2.80	3.33

	46	62	77	95	114
	1.2823	1.3101	1.3378	1.3350	1.3321
	1.90	2.81	3.74	4.65	5.58
	1.19	1.73	2.27	2.80	3.33

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 1500 mm

column radiators

H [mm]	1500				
number of columns B [mm] type	2 63 DL2150..	3 101 DL3150..	4 139 DL4150..	5 177 DL5150..	6 215 DL6150..
PLN/segment	110	151	197	243	290
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	440 443 355	604 599 478	788 756 601	972 933 742	1160 1110 883
5 250	550 553 444	755 749 598	985 945 751	1215 1166 928	1450 1387 1104
6 300	660 664 532	906 899 718	1182 1134 902	1458 1399 1113	1740 1664 1325
7 350	770 774 621	1057 1049 837	1379 1323 1052	1701 1632 1299	2030 1942 1546
8 400	880 885 710	1208 1198 957	1576 1512 1202	1944 1865 1484	2320 2219 1767
9 450	990 996 798	1359 1348 1076	1773 1701 1352	2187 2099 1670	2610 2497 1988
10 500	1100 1106 887	1510 1498 1196	1970 1890 1503	2430 2332 1855	2900 2774 2209
11 550	1210 1217 976	1661 1648 1316	2167 2078 1653	2673 2565 2041	3190 3052 2429
12 600	1320 1328 1064	1812 1798 1435	2364 2267 1803	2916 2798 2226	3480 3329 2650
13 650	1430 1438 1153	1963 1947 1555	2561 2456 1953	3159 3031 2412	3770 3606 2871
14 700	1540 1549 1242	2114 2097 1674	2758 2645 2104	3402 3265 2597	4060 3884 3092
15 750	1650 1660 1331	2265 2247 1794	2955 2834 2254	3645 3498 2783	4350 4161 3313
16 800	1760 1770 1419	2416 2397 1914	3152 3023 2404	3888 3731 2969	4640 4439 3534
17 850	1870 1881 1508	2567 2547 2033	3349 3212 2554	4131 3964 3154	4930 4716 3755
18 900	1980 1992 1597	2718 2696 2153	3546 3401 2705	4374 4197 3340	5220 4993 3976
19 950	2090 2102 1685	2869 2846 2273	3743 3590 2855	4617 4430 3525	5510 5271 4196
20 1000	2200 2213 1774	3020 2996 2392	3940 3779 3005	4860 4664 3711	5800 5548 4417
21 1050	2310 2323 1863	3171 3146 2512	4137 3968 3155	5103 4897 3896	6090 5826 4638
22 1100	2420 2434 1951	3322 3296 2631	4334 4157 3306	5346 5130 4082	6380 6103 4859
23 1150	2530 2545 2040	3473 3445 2751	4531 4346 3456	5589 5363 4267	6670 6380 5080
24 1200	2640 2655 2129	3624 3595 2871	4728 4535 3606	5832 5596 4453	6960 6658 5301
25 1250	2750 2766 2218	3775 3745 2990	4925 4724 3756	6075 5830 4638	7250 6935 5522
26 1300	2860 2877 2306	3926 3895 3110	5122 4913 3907	6318 6063 4824	7540 7213 5742
27 1350	2970 2987 2395	4077 4045 3229	5319 5102 4057	6561 6296 5009	7830 7490 5963

H [mm]	1500				
number of columns B [mm] type	2 63 DL2150..	3 101 DL3150..	4 139 DL4150..	5 177 DL5150..	6 215 DL6150..
PLN/segment	110	151	197	243	290
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	3080 3098 2484	4228 4194 3349	5516 5291 4207	6804 6529 5195	8120 7767 6184
29 1450	3190 3209 2572	4379 4344 3469	5713 5480 4357	7047 6762 5381	8410 8045 6405
30 1500	3300 3319 2661	4530 4494 3588	5910 5669 4508	7290 6995 5566	8700 8322 6626
31 1550	3410 3430 2750	4681 4644 3708	6107 5857 4658	7533 7229 5752	8990 8600 6847
32 1600	3520 3540 2838	4832 4794 3827	6304 6046 4808	7776 7462 5937	9280 8877 7068
33 1650	3630 3651 2927	4983 4943 3947	6501 6235 4958	8019 7695 6123	9570 9155 7288
34 1700	3740 3762 3016	5134 5093 4067	6698 6424 5109	8262 7928 6308	9860 9432 7509
35 1750	3850 3872 3105	5285 5243 4186	6895 6613 5259	8505 8161 6494	10150 9709 7730
36 1800	3960 3983 3193	5436 5393 4306	7092 6802 5409	8748 8394 6679	10440 9987 7951
37 1850	4070 4094 3282	5587 5543 4425	7289 6991 5559	8991 8628 6865	10730 10264 8172
38 1900	4180 4204 3371	5738 5692 4545	7486 7180 5710	9234 8861 7050	11020 10542 8393
39 1950	4290 4315 3459	5889 5842 4665	7683 7369 5860	9477 9094 7236	11310 10819 8614
40 2000	4400 4426 3548	6040 5992 4784	7880 7558 6010	9720 9327 7421	11600 11096 8834
41 2050	4510 4536 3637	6191 6142 4904	8077 7747 6160	9963 9560 7607	11890 11374 9055
42 2100	4620 4647 3725	6342 6292 5023	8274 7936 6311	10206 9794 7792	12180 11651 9276
43 2150	4730 4758 3814	6493 6441 5143	8471 8125 6461	10449 10027 7978	12470 11929 9497
44 2200	4840 4868 3903	6644 6591 5263	8668 8314 6611	10692 10260 8164	12760 12206 9718
45 2250	4950 4979 3992	6795 6741 5382	8865 8503 6761	10935 10493 8349	13050 12483 9939
46 2300	5060 5089 4080	6946 6891 5502	9062 8692 6912	11178 10726 8535	13340 12761 10160
47 2350	5170 5200 4169	7097 7041 5622	9259 8881 7062	11421 10959 8720	13630 13038 10381
48 2400	5280 5311 4258	7248 7190 5741	9456 9070 7212	11664 11193 8906	13920 13316 10601
49 2450	5390 5421 4346	7399 7340 5861	9653 9259 7362	11907 11426 9091	14210 13593 10822
50 2500	5500 5532 4435	7550 7490 5980	9850 9448 7513	12150 11659 9277	14500 13871 11043

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	56	75	94	116	139
n value	1.3023	1.3264	1.3504	1.3469	1.3433
weight [kg/segment]	2.36	3.49	4.64	5.77	6.92
cap. [l/segment]	1.46	2.11	2.77	3.42	4.08

	56	75	94	116	139
	1.3023	1.3264	1.3504	1.3469	1.3433
	2.36	3.49	4.64	5.77	6.92
	1.46	2.11	2.77	3.42	4.08

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 440 443 — [W] 75/65/20°C
— 355 — [W] 70/55/20°C

H [mm]	1800				
number of columns B [mm] type	2 63 DL2180..	3 101 DL3180..	4 139 DL4180..	5 177 DL5180..	6 215 DL6180..
PLN/segment	127	185	236	289	343
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	508 529 423	740 712 568	944 896 712	1156 1105 878	1372 1313 1045
5 250	635 661 528	925 890 710	1180 1120 890	1445 1381 1098	1715 1642 1306
6 300	762 793 634	1110 1068 852	1416 1344 1068	1734 1657 1318	2058 1970 1568
7 350	889 926 740	1295 1247 994	1652 1567 1246	2023 1933 1537	2401 2298 1829
8 400	1016 1058 846	1480 1425 1135	1888 1791 1424	2312 2209 1757	2744 2627 2090
9 450	1143 1190 951	1665 1603 1277	2124 2015 1602	2601 2485 1976	3087 2955 2351
10 500	1270 1322 1057	1850 1781 1419	2360 2239 1779	2890 2761 2196	3430 3284 2613
11 550	1397 1455 1163	2035 1959 1561	2596 2463 1957	3179 3038 2415	3773 3612 2874
12 600	1524 1587 1268	2220 2137 1703	2832 2687 2135	3468 3314 2635	4116 3940 3135
13 650	1651 1719 1374	2405 2315 1845	3068 2911 2313	3757 3590 2855	4459 4269 3396
14 700	1778 1851 1480	2590 2493 1987	3304 3135 2491	4046 3866 3074	4802 4597 3658
15 750	1905 1983 1585	2775 2671 2129	3540 3359 2669	4335 4142 3294	5145 4925 3919
16 800	2032 2116 1691	2960 2849 2271	3776 3583 2847	4624 4418 3513	5488 5254 4180
17 850	2159 2248 1797	3145 3027 2413	4012 3807 3025	4913 4694 3733	5831 5582 4442
18 900	2286 2380 1903	3330 3205 2555	4248 4031 3203	5202 4971 3953	6174 5910 4703
19 950	2413 2512 2008	3515 3384 2697	4484 4254 3381	5491 5247 4172	6517 6239 4964
20 1000	2540 2645 2114	3700 3562 2839	4720 4478 3559	5780 5523 4392	6860 6567 5225
21 1050	2667 2777 2220	3885 3740 2981	4956 4702 3737	6069 5799 4611	7203 6895 5487
22 1100	2794 2909 2325	4070 3918 3123	5192 4926 3915	6358 6075 4831	7546 7224 5748
23 1150	2921 3041 2431	4255 4096 3264	5428 5150 4093	6647 6351 5050	7889 7552 6009
24 1200	3048 3174 2537	4440 4274 3406	5664 5374 4271	6936 6627 5270	8232 7880 6270
25 1250	3175 3306 2642	4625 4452 3548	5900 5598 4449	7225 6904 5490	8575 8209 6532
26 1300	3302 3438 2748	4810 4630 3690	6136 5822 4627	7514 7180 5709	8918 8537 6793
27 1350	3429 3570 2854	4995 4808 3832	6372 6046 4805	7803 7456 5929	9261 8865 7054

H [mm]	1800				
number of columns B [mm] type	2 63 DL2180..	3 101 DL3180..	4 139 DL4180..	5 177 DL5180..	6 215 DL6180..
PLN/segment	127	185	236	289	343
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	3556 3702 2960	5180 4986 3974	6608 6270 4983	8092 7732 6148	9604 9194 7316
29 1450	3683 3835 3065	5365 5164 4116	6844 6494 5161	8381 8008 6368	9947 9522 7577
30 1500	3810 3967 3171	5550 5342 4258	7080 6718 5338	8670 8284 6588	10290 9851 7838
31 1550	3937 4099 3277	5735 5520 4400	7316 6942 5516	8959 8560 6807	10633 10179 8099
32 1600	4064 4231 3382	5920 5699 4542	7552 7165 5694	9248 8836 7027	10976 10507 8361
33 1650	4191 4364 3488	6105 5877 4684	7788 7389 5872	9537 9113 7246	11319 10836 8622
34 1700	4318 4496 3594	6290 6055 4826	8024 7613 6050	9826 9389 7466	11662 11164 8883
35 1750	4445 4628 3699	6475 6233 4968	8260 7837 6228	10115 9665 7686	12005 11492 9144
36 1800	4572 4760 3805	6660 6411 5110	8496 8061 6406	10404 9941 7905	12348 11821 9406
37 1850	4699 4893 3911	6845 6589 5252	8732 8285 6584	10693 10217 8125	12691 12149 9667
38 1900	4826 5025 4017	7030 6767 5393	8968 8509 6762	10982 10493 8344	13034 12477 9928
39 1950	4953 5157 4122	7215 6945 5535	9204 8733 6940	11271 10769 8564	13377 12806 10189
40 2000	5080 5289 4228	7400 7123 5677	9440 8957 7118	11560 11046 8783	13720 13134 10451
41 2050	5207 5421 4334	7585 7301 5819	9676 9181 7296	11849 11322 9003	14063 13462 10712
42 2100	5334 5554 4439	7770 7479 5961	9912 9405 7474	12138 11598 9223	14406 13791 10973
43 2150	5461 5686 4545	7955 7657 6103	10148 9629 7652	12427 11874 9442	14749 14119 11235
44 2200	5588 5818 4651	8140 7836 6245	10384 9852 7830	12716 12150 9662	15092 14447 11496
45 2250	5715 5950 4756	8325 8014 6387	10620 10076 8008	13005 12426 9881	15435 14776 11757
46 2300	5842 6083 4862	8510 8192 6529	10856 10300 8186	13294 12702 10101	15778 15104 12018
47 2350	5969 6215 4968	8695 8370 6671	11092 10524 8364	13583 12979 10321	16121 15432 12280
48 2400	6096 6347 5074	8880 8548 6813	11328 10748 8542	13872 13255 10540	16464 15761 12541
49 2450	6223 6479 5179	9065 8726 6955	11564 10972 8720	14161 13531 10760	16807 16089 12802
50 2500	6350 6612 5285	9250 8904 7097	11800 11196 8897	14450 13807 10979	17150 16418 13063

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	67	89	111	137	164
n value	1.3197	1.3369	1.3541	1.3504	1.3467
weight [kg/segment]	2.82	4.17	5.53	6.88	8.25
cap. [l/segment]	1.72	2.49	3.27	4.04	4.82

	67	89	111	137	164
	1.3197	1.3369	1.3541	1.3504	1.3467
	2.82	4.17	5.53	6.88	8.25
	1.72	2.49	3.27	4.04	4.82

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Delta Laserline height 2000 mm

column radiators

H [mm]	2000				
number of columns B [mm] type	2 63 DL2200..	3 101 DL3200..	4 139 DL4200..	5 177 DL5200..	6 215 DL6200..
PLN/segment	142	199	261	323	382
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	568 587 469	796 788 628	1044 989 787	1292 1219 970	1528 1449 1154
5 250	710 734 586	995 986 785	1305 1237 983	1615 1524 1212	1910 1812 1442
6 300	852 881 703	1194 1183 942	1566 1484 1180	1938 1829 1455	2292 2174 1730
7 350	994 1028 820	1393 1380 1099	1827 1732 1376	2261 2134 1697	2674 2536 2019
8 400	1136 1175 937	1592 1577 1256	2088 1979 1573	2584 2439 1940	3056 2899 2307
9 450	1278 1321 1055	1791 1774 1413	2349 2226 1770	2907 2744 2182	3438 3261 2596
10 500	1420 1468 1172	1990 1971 1570	2610 2474 1966	3230 3049 2425	3820 3623 2884
11 550	1562 1615 1289	2189 2168 1727	2871 2721 2163	3553 3353 2667	4202 3986 3173
12 600	1704 1762 1406	2388 2365 1884	3132 2968 2360	3876 3658 2910	4584 4348 3461
13 650	1846 1909 1523	2587 2562 2041	3393 3216 2556	4199 3963 3152	4966 4710 3749
14 700	1988 2056 1641	2786 2759 2198	3654 3463 2753	4522 4268 3395	5348 5073 4038
15 750	2130 2202 1758	2985 2957 2355	3915 3710 2949	4845 4573 3637	5730 5435 4326
16 800	2272 2349 1875	3184 3154 2512	4176 3958 3146	5168 4878 3880	6112 5797 4615
17 850	2414 2496 1992	3383 3351 2669	4437 4205 3343	5491 5182 4122	6494 6160 4903
18 900	2556 2643 2109	3582 3548 2826	4698 4452 3539	5814 5487 4365	6876 6522 5191
19 950	2698 2790 2227	3781 3745 2983	4959 4700 3736	6137 5792 4607	7258 6884 5480
20 1000	2840 2937 2344	3980 3942 3140	5220 4947 3933	6460 6097 4850	7640 7247 5768
21 1050	2982 3083 2461	4179 4139 3297	5481 5195 4129	6783 6402 5092	8022 7609 6057
22 1100	3124 3230 2578	4378 4336 3454	5742 5442 4326	7106 6707 5335	8404 7971 6345
23 1150	3266 3377 2695	4577 4533 3611	6003 5689 4522	7429 7012 5577	8786 8334 6634
24 1200	3408 3524 2812	4776 4730 3768	6264 5937 4719	7752 7316 5820	9168 8696 6922
25 1250	3550 3671 2930	4975 4928 3925	6525 6184 4916	8075 7621 6062	9550 9059 7210
26 1300	3692 3818 3047	5174 5125 4082	6786 6431 5112	8398 7926 6305	9932 9421 7499
27 1350	3834 3964 3164	5373 5322 4239	7047 6679 5309	8721 8231 6547	10314 9783 7787

H [mm]	2000				
number of columns B [mm] type	2 63 DL2200..	3 101 DL3200..	4 139 DL4200..	5 177 DL5200..	6 215 DL6200..
PLN/segment	142	199	261	323	382
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
28 1400	3976 4111 3281	5572 5519 4396	7308 6926 5506	9044 8536 6790	10696 10146 8076
29 1450	4118 4258 3398	5771 5716 4553	7569 7173 5702	9367 8841 7032	11078 10508 8364
30 1500	4260 4405 3516	5970 5913 4710	7830 7421 5899	9690 9146 7275	11460 10870 8652
31 1550	4402 4552 3633	6169 6110 4867	8091 7668 6095	10013 9450 7517	11842 11233 8941
32 1600	4544 4699 3750	6368 6307 5024	8352 7916 6292	10336 9755 7760	12224 11595 9229
33 1650	4686 4845 3867	6567 6504 5181	8613 8163 6489	10659 10060 8002	12606 11957 9518
34 1700	4828 4992 3984	6766 6701 5338	8874 8410 6685	10982 10365 8245	12988 12320 9806
35 1750	4970 5139 4102	6965 6899 5495	9135 8658 6882	11305 10670 8487	13370 12682 10095
36 1800	5112 5286 4219	7164 7096 5652	9396 8905 7079	11628 10975 8730	13752 13044 10383
37 1850	5254 5433 4336	7363 7293 5809	9657 9152 7275	11951 11279 8972	14134 13407 10671
38 1900	5396 5580 4453	7562 7490 5966	9918 9400 7472	12274 11584 9215	14516 13769 10960
39 1950	5538 5726 4570	7761 7687 6123	10179 9647 7668	12597 11889 9457	14898 14131 11248
40 2000	5680 5873 4687	7960 7884 6280	10440 9894 7865	12920 12194 9700	15280 14494 11537
41 2050	5822 6020 4805	8159 8081 6437	10701 10142 8062	13243 12499 9942	15662 14856 11825
42 2100	5964 6167 4922	8358 8278 6594	10962 10389 8258	13566 12804 10185	16044 15218 12113
43 2150	6106 6314 5039	8557 8475 6751	11223 10636 8455	13889 13109 10427	16426 15581 12402
44 2200	6248 6461 5156	8756 8672 6908	11484 10884 8652	14212 13413 10670	16808 15943 12690
45 2250	6390 6607 5273	8955 8870 7065	11745 11131 8848	14535 13718 10912	17190 16305 12979
46 2300	6532 6754 5391	9154 9067 7222	12006 11379 9045	14858 14023 11155	17572 16668 13267
47 2350	6674 6901 5508	9353 9264 7379	12267 11626 9241	15181 14328 11397	17954 17030 13556
48 2400	6816 7048 5625	9552 9461 7535	12528 11873 9438	15504 14633 11640	18336 17392 13844
49 2450	6958 7195 5742	9751 9658 7692	12789 12121 9635	15827 14938 11882	18718 17755 14132
50 2500	7100 7342 5859	9950 9855 7849	13050 12368 9831	16150 15243 12125	19100 18117 14421

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	74	99	123	152	181
n value	1.3289	1.3408	1.3526	1.3486	1.3446
weight [kg/segment]	3.12	4.62	6.13	7.63	9.15
cap. [l/segment]	1.90	2.75	3.61	4.46	5.31

	74	99	123	152	181
	1.3289	1.3408	1.3526	1.3486	1.3446
	3.12	4.62	6.13	7.63	9.15
	1.90	2.75	3.61	4.46	5.31

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

Price in PLN — 568 587 — [W] 75/65/20°C
469 — [W] 70/55/20°C

H [mm]	2200				
number of columns B [mm] type	2 63 DL2220..	3 101 DL3220..	4 139 DL4220..	5 177 DL5220..	6 215 DL6220..
PLN/segment	159	225	291	357	421
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	636 647 515	900 865 689	1164 1084 862	1428 1335 1063	1684 1586 1263
5 250	795 808 644	1125 1081 861	1455 1355 1078	1785 1668 1328	2105 1982 1579
6 300	954 970 773	1350 1298 1033	1746 1626 1293	2142 2002 1594	2526 2379 1895
7 350	1113 1131 902	1575 1514 1206	2037 1897 1509	2499 2336 1860	2947 2775 2211
8 400	1272 1293 1031	1800 1730 1378	2328 2167 1724	2856 2669 2125	3368 3171 2527
9 450	1431 1455 1160	2025 1947 1550	2619 2438 1940	3213 3003 2391	3789 3568 2843
10 500	1590 1616 1289	2250 2163 1722	2910 2709 2155	3570 3337 2656	4210 3964 3158
11 550	1749 1778 1417	2475 2379 1895	3201 2980 2371	3927 3670 2922	4631 4361 3474
12 600	1908 1940 1546	2700 2595 2067	3492 3251 2586	4284 4004 3188	5052 4757 3790
13 650	2067 2101 1675	2925 2812 2239	3783 3522 2802	4641 4338 3453	5473 5153 4106
14 700	2226 2263 1804	3150 3028 2411	4074 3793 3017	4998 4672 3719	5894 5550 4422

H [mm]	2200				
number of columns B [mm] type	2 63 DL2220..	3 101 DL3220..	4 139 DL4220..	5 177 DL5220..	6 215 DL6220..
PLN/segment	159	225	291	357	421
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
15 750	2385 2424 1933	3375 3244 2583	4365 4064 3233	5355 5005 3985	6315 5946 4738
16 800	2544 2586 2062	3600 3460 2756	4656 4335 3448	5712 5339 4250	6736 6343 5054
17 850	2703 2748 2190	3825 3677 2928	4947 4606 3664	6069 5673 4516	7157 6739 5369
18 900	2862 2909 2319	4050 3893 3100	5238 4877 3879	6426 6006 4782	7578 7136 5685
19 950	3021 3071 2448	4275 4109 3272	5529 5148 4095	6783 6340 5047	7999 7532 6001
20 1000	3180 3233 2577	4500 4326 3445	5820 5419 4310	7140 6674 5313	8420 7928 6317
21 1050	3339 3394 2706	4725 4542 3617	6111 5690 4526	7497 7007 5579	8841 8325 6633
22 1100	3498 3556 2835	4950 4758 3789	6402 5960 4741	7854 7341 5844	9262 8721 6949
23 1150	3657 3717 2964	5175 4974 3961	6693 6231 4957	8211 7675 6110	9683 9118 7265
24 1200	3816 3879 3092	5400 5191 4133	6984 6502 5172	8568 8008 6375	10104 9514 7580
25 1250	3975 4041 3221	5625 5407 4306	7275 6773 5388	8925 8342 6641	10525 9911 7896

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	81	108	135	167	198
n value	1.3356	1.3421	1.3485	1.3437	1.3389
weight [kg/segment]	3.43	5.07	6.73	8.38	10.04
cap. [l/segment]	2.08	3.01	3.94	4.87	5.81

	81	108	135	167	198
	1.3356	1.3421	1.3485	1.3437	1.3389
	3.43	5.07	6.73	8.38	10.04
	2.08	3.01	3.94	4.87	5.81

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

H [mm]	2500				
number of columns B [mm] type	2 63 DL2250..	3 101 DL3250..	4 139 DL4250..	5 177 DL5250..	6 215 DL6250..
PLN/segment	179	255	328	401	478
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	716 737 587	1020 982 782	1312 1227 977	1604 1509 1204	1912 1791 1431
5 250	895 921 734	1275 1227 978	1640 1533 1222	2005 1886 1505	2390 2239 1788
6 300	1074 1105 881	1530 1473 1173	1968 1840 1466	2406 2263 1806	2868 2687 2146
7 350	1253 1290 1027	1785 1718 1369	2296 2146 1710	2807 2640 2107	3346 3134 2504
8 400	1432 1474 1174	2040 1964 1564	2624 2453 1955	3208 3018 2407	3824 3582 2862
9 450	1611 1658 1321	2295 2209 1760	2952 2760 2199	3609 3395 2708	4302 4030 3219
10 500	1790 1842 1468	2550 2454 1955	3280 3066 2443	4010 3772 3009	4780 4478 3577
11 550	1969 2027 1614	2805 2700 2151	3608 3373 2688	4411 4149 3310	5258 4926 3935
12 600	2148 2211 1761	3060 2945 2347	3936 3680 2932	4812 4527 3611	5736 5373 4292
13 650	2327 2395 1908	3315 3191 2542	4264 3986 3176	5213 4904 3912	6214 5821 4650
14 700	2506 2579 2055	3570 3436 2738	4592 4293 3421	5614 5281 4213	6692 6269 5008

H [mm]	2500				
number of columns B [mm] type	2 63 DL2250..	3 101 DL3250..	4 139 DL4250..	5 177 DL5250..	6 215 DL6250..
PLN/segment	179	255	328	401	478
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
15 750	2685 2763 2201	3825 3682 2933	4920 4600 3665	6015 5658 4514	7170 6717 5365
16 800	2864 2948 2348	4080 3927 3129	5248 4906 3909	6416 6035 4815	7648 7164 5723
17 850	3043 3132 2495	4335 4172 3324	5576 5213 4154	6817 6413 5116	8126 7612 6081
18 900	3222 3316 2642	4590 4418 3520	5904 5520 4398	7218 6790 5417	8604 8060 6439
19 950	3401 3500 2789	4845 4663 3715	6232 5826 4642	7619 7167 5718	9082 8508 6796
20 1000	3580 3685 2935	5100 4909 3911	6560 6133 4886	8020 7544 6019	9560 8956 7154
21 1050	3759 3869 3082	5355 5154 4106	6888 6439 5131	8421 7921 6320	10038 9403 7512
22 1100	3938 4053 3229	5610 5400 4302	7216 6746 5375	8822 8299 6621	10516 9851 7869
23 1150	4117 4237 3376	5865 5645 4497	7544 7053 5619	9223 8676 6922	10994 10299 8227
24 1200	4296 4422 3522	6120 5891 4693	7872 7359 5864	9624 9053 7222	11472 10747 8585
25 1250	4475 4606 3669	6375 6136 4889	8200 7666 6108	10025 9430 7523	11950 11195 8942

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	92	123	154	190	226
n value	1.3398	1.3393	1.3387	1.3312	1.3236
weight [kg/segment]	3.89	5.75	7.63	9.49	11.37
cap. [l/segment]	2.34	3.39	4.45	5.50	6.55

	92	123	154	190	226
	1.3398	1.3393	1.3387	1.3312	1.3236
	3.89	5.75	7.63	9.49	11.37
	2.34	3.39	4.45	5.50	6.55

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

H [mm]	2800				
number of columns B [mm] type	2 63 DL2280..	3 101 DL3280..	4 139 DL4280..	5 177 DL5280..	6 215 DL6280..
PLN/segment	196	286	371	445	536
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	784 ⁸²⁹ ₆₆₁	1144 ¹¹⁰⁰ ₈₇₈	1484 ¹³⁷¹ ₁₀₉₅	1780 ¹⁶⁸⁵ ₁₃₄₈	2144 ¹⁹⁹⁸ ₁₆₀₂
5 250	980 ¹⁰³⁷ ₈₂₇	1430 ¹³⁷⁵ ₁₀₉₇	1855 ¹⁷¹⁴ ₁₃₆₉	2225 ²¹⁰⁶ ₁₆₈₅	2680 ²⁴⁹⁸ ₂₀₀₃
6 300	1176 ¹²⁴⁴ ₉₉₂	1716 ¹⁶⁵¹ ₁₃₁₇	2226 ²⁰⁵⁷ ₁₆₄₂	2670 ²⁵²⁷ ₂₀₂₂	3216 ²⁹⁹⁷ ₂₄₀₄
7 350	1372 ¹⁴⁵² ₁₁₅₇	2002 ¹⁹²⁶ ₁₅₃₆	2597 ²⁴⁰⁰ ₁₉₁₆	3115 ²⁹⁴⁸ ₂₃₅₉	3752 ³⁴⁹⁷ ₂₈₀₄
8 400	1568 ¹⁶⁵⁹ ₁₃₂₃	2288 ²²⁰¹ ₁₇₅₆	2968 ²⁷⁴³ ₂₁₉₀	3560 ³³⁶⁹ ₂₆₉₆	4288 ³⁹⁹⁶ ₃₂₀₅
9 450	1764 ¹⁸⁶⁶ ₁₄₈₈	2574 ²⁴⁷⁶ ₁₉₇₅	3339 ³⁰⁸⁵ ₂₄₆₄	4005 ³⁷⁹¹ ₃₀₃₃	4824 ⁴⁴⁹⁶ ₃₆₀₆
10 500	1960 ²⁰⁷⁴ ₁₆₅₃	2860 ²⁷⁵¹ ₂₁₉₅	3710 ³⁴²⁸ ₂₇₃₇	4450 ⁴²¹² ₃₃₇₀	5360 ⁴⁹⁹⁵ ₄₀₀₆
11 550	2156 ²²⁸¹ ₁₈₁₈	3146 ³⁰²⁶ ₂₄₁₄	4081 ³⁷⁷¹ ₃₀₁₁	4895 ⁴⁶³³ ₃₇₀₈	5896 ⁵⁴⁹⁵ ₄₄₀₇
12 600	2352 ²⁴⁸⁸ ₁₉₈₄	3432 ³³⁰¹ ₂₆₃₄	4452 ⁴¹¹⁴ ₃₂₈₅	5340 ⁵⁰⁵⁴ ₄₀₄₅	6432 ⁵⁹⁹⁴ ₄₈₀₇
13 650	2548 ²⁶⁹⁶ ₂₁₄₉	3718 ³⁵⁷⁶ ₂₈₅₃	4823 ⁴⁴⁵⁷ ₃₅₅₉	5785 ⁵⁴⁷⁵ ₄₃₈₂	6968 ⁶⁴⁹⁴ ₅₂₀₈
14 700	2744 ²⁹⁰³ ₂₃₁₄	4004 ³⁸⁵¹ ₃₀₇₃	5194 ⁴⁷⁹⁹ ₃₈₃₂	6230 ⁵⁸⁹⁷ ₄₇₁₉	7504 ⁶⁹⁹³ ₅₆₀₉

	2800				
	2 63 DL2280..	3 101 DL3280..	4 139 DL4280..	5 177 DL5280..	6 215 DL6280..
	196	286	371	445	536
	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
15 750	2940 ³¹¹⁰ ₂₄₈₀	4290 ⁴¹²⁶ ₃₂₉₂	5565 ⁵¹⁴² ₄₁₀₆	6675 ⁶³¹⁸ ₅₀₅₆	8040 ⁷⁴⁹³ ₆₀₀₉
16 800	3136 ³³¹⁸ ₂₆₄₅	4576 ⁴⁴⁰¹ ₃₅₁₂	5936 ⁵⁴⁸⁵ ₄₃₈₀	7120 ⁶⁷³⁹ ₅₃₉₃	8576 ⁷⁹⁹² ₆₄₁₀
17 850	3332 ³⁵²⁵ ₂₈₁₀	4862 ⁴⁶⁷⁷ ₃₇₃₁	6307 ⁵⁸²⁸ ₄₆₅₄	7565 ⁷¹⁶⁰ ₅₇₃₀	9112 ⁸⁴⁹² ₆₈₁₁
18 900	3528 ³⁷³² ₂₉₇₆	5148 ⁴⁹⁵² ₃₉₅₁	6678 ⁶¹⁷¹ ₄₉₂₇	8010 ⁷⁵⁸¹ ₆₀₆₇	9648 ⁸⁹⁹² ₇₂₁₁
19 950	3724 ³⁹⁴⁰ ₃₁₄₁	5434 ⁵²²⁷ ₄₁₇₀	7049 ⁶⁵¹⁴ ₅₂₀₁	8455 ⁸⁰⁰² ₆₄₀₄	10184 ⁹⁴⁹¹ ₇₆₁₂
20 1000	3920 ⁴¹⁴⁷ ₃₃₀₆	5720 ⁵⁵⁰² ₄₃₉₀	7420 ⁶⁸⁵⁶ ₅₄₇₅	8900 ⁸⁴²⁴ ₆₇₄₁	10720 ⁹⁹⁹¹ ₈₀₁₂
21 1050	4116 ⁴³⁵⁵ ₃₄₇₂	6006 ⁵⁷⁷⁷ ₄₆₀₉	7791 ⁷¹⁹⁹ ₅₇₄₉	9345 ⁸⁸⁴⁵ ₇₀₇₈	11256 ¹⁰⁴⁹⁰ ₈₄₁₃
22 1100	4312 ⁴⁵⁶² ₃₆₃₇	6292 ⁶⁰⁵² ₄₈₂₉	8162 ⁷⁵⁴² ₆₀₂₂	9790 ⁹²⁶⁶ ₇₄₁₅	11792 ¹⁰⁹⁹⁰ ₈₈₁₄
23 1150	4508 ⁴⁷⁶⁹ ₃₈₀₂	6578 ⁶³²⁷ ₅₀₄₈	8533 ⁷⁸⁸⁵ ₆₂₉₆	10235 ⁹⁶⁸⁷ ₇₇₅₂	12328 ¹¹⁴⁸⁹ ₉₂₁₄
24 1200	4704 ⁴⁹⁷⁷ ₃₉₆₈	6864 ⁶⁶⁰² ₅₂₆₈	8904 ⁸²²⁸ ₆₅₇₀	10680 ¹⁰¹⁰⁸ ₈₀₈₉	12864 ¹¹⁹⁸⁹ ₉₆₁₅
25 1250	4900 ⁵¹⁸⁴ ₄₁₃₃	7150 ⁶⁸⁷⁷ ₅₄₈₇	9275 ⁸⁵⁷¹ ₆₈₄₄	11125 ¹⁰⁵³⁰ ₈₄₂₆	13400 ¹²⁴⁸⁸ ₁₀₀₁₆

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	104	138	173	214	255
n value	1.3354	1.3307	1.3260	1.3131	1.3002
weight [kg/segment]	4.34	6.43	8.53	10.61	12.71
cap. [l/segment]	2.61	3.78	4.95	6.12	7.29

	104	138	173	214	255
	1.3354	1.3307	1.3260	1.3131	1.3002
	4.34	6.43	8.53	10.61	12.71
	2.61	3.78	4.95	6.12	7.29

The prices in the tables above refer to radiators with side connections. in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

H [mm]	3000				
number of columns B [mm] type	2 63 DL2300..	3 101 DL3300..	4 139 DL4300..	5 177 DL5300..	6 215 DL6300..
PLN/segment	207	308	394	477	569
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
4 200	828 892 712	1232 1181 943	1576 1469 1175	1908 1803 1447	2276 2137 1720
5 250	1035 1116 891	1540 1476 1179	1970 1836 1469	2385 2254 1808	2845 2672 2150
6 300	1242 1339 1069	1848 1771 1415	2364 2204 1762	2862 2705 2170	3414 3206 2580
7 350	1449 1562 1247	2156 2066 1651	2758 2571 2056	3339 3155 2531	3983 3740 3010
8 400	1656 1785 1425	2464 2361 1887	3152 2938 2350	3816 3606 2893	4552 4274 3440
9 450	1863 2008 1603	2772 2657 2123	3546 3305 2643	4293 4057 3255	5121 4809 3870
10 500	2070 2231 1781	3080 2952 2359	3940 3673 2937	4770 4508 3616	5690 5343 4300
11 550	2277 2454 1959	3388 3247 2595	4334 4040 3231	5247 4959 3978	6259 5877 4730
12 600	2484 2677 2137	3696 3542 2830	4728 4407 3524	5724 5409 4340	6828 6412 5160
13 650	2691 2900 2316	4004 3837 3066	5122 4774 3818	6201 5860 4701	7397 6946 5590
14 700	2898 3123 2494	4312 4133 3302	5516 5142 4112	6678 6311 5063	7966 7480 6020

H [mm]	3000				
number of columns B [mm] type	2 63 DL2300..	3 101 DL3300..	4 139 DL4300..	5 177 DL5300..	6 215 DL6300..
PLN/segment	207	308	394	477	569
number of seg- ments / L [mm]	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
15 750	3105 3347 2672	4620 4428 3538	5910 5509 4406	7155 6762 5424	8535 8015 6450
16 800	3312 3570 2850	4928 4723 3774	6304 5876 4699	7632 7212 5786	9104 8549 6880
17 850	3519 3793 3028	5236 5018 4010	6698 6243 4993	8109 7663 6148	9673 9083 7310
18 900	3726 4016 3206	5544 5313 4246	7092 6611 5287	8586 8114 6509	10242 9617 7740
19 950	3933 4239 3384	5852 5608 4482	7486 6978 5580	9063 8565 6871	10811 10152 8170
20 1000	4140 4462 3562	6160 5904 4717	7880 7345 5874	9540 9016 7233	11380 10686 8600
21 1050	4347 4685 3741	6468 6199 4953	8274 7712 6168	10017 9466 7594	11949 11220 9030
22 1100	4554 4908 3919	6776 6494 5189	8668 8080 6461	10494 9917 7956	12518 11755 9460
23 1150	4761 5131 4097	7084 6789 5425	9062 8447 6755	10971 10368 8318	13087 12289 9890
24 1200	4968 5354 4275	7392 7084 5661	9456 8814 7049	11448 10819 8679	13656 12823 10320
25 1250	5175 5578 4453	7700 7380 5897	9850 9181 7343	11925 11270 9041	14225 13358 10750

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C and 70/55/20°C.

[W/segment] 55/45/20 °C	112	149	186	230	276
n value	1.3267	1.3218	1.3169	1.2985	1.2800
weight [kg/segment]	4.65	6.88	9.12	11.35	13.60
cap. [l/segment]	2.79	4.03	5.29	6.53	7.79

	112	149	186	230	276
	1.3267	1.3218	1.3169	1.2985	1.2800
	4.65	6.88	9.12	11.35	13.60
	2.79	4.03	5.29	6.53	7.79

The prices in the tables above refer to radiators with side connections, in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours – see pages 66-69). Radiators' prices do not include brackets, stands or accessories (see pages 60-61) – to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

max. number of segments in one block

column radiators



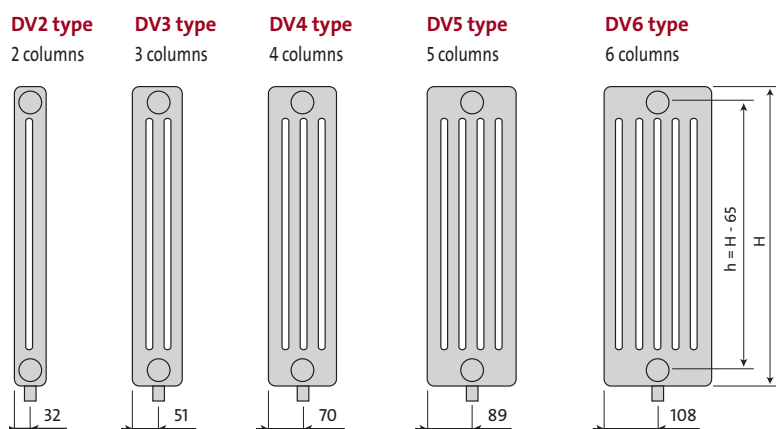
Delta Laserline Ventil

Purmo's Delta Laserline Ventil column radiators are manufactured in the same types and sizes, and support the same features as the Delta Laserline radiators. The basic difference is that – in contrast to the Delta Laserline radiators – Delta Laserline Ventil's are factory equipped with the valve insert with initial preset. The radiators are to be connected to the hydronic domestic heating system from the bottom, with two connecting stubs with internal diameter G ½" and 50 mm spacing (not applicable to the radiators connected via the edge segments).

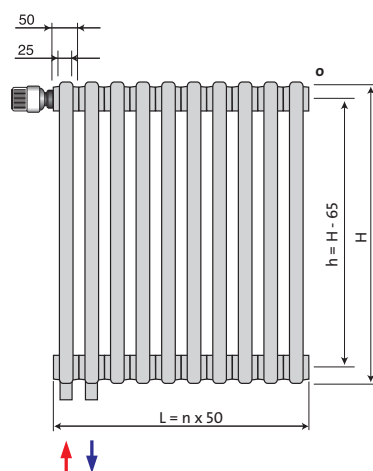
As standard, opposite the valve insert the welded-on cover is positioned, with internal thread G ½", for the comfortable G ½" air vent mounting, and below – the same cover also with G ½" internal thread, for closing plug mounting.



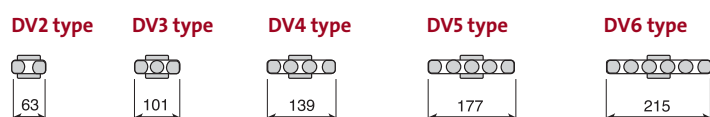
side views



front view



cross section views



H - overall height
h - connectors' spacing
L - overall length
n - number of segments
o - air vent

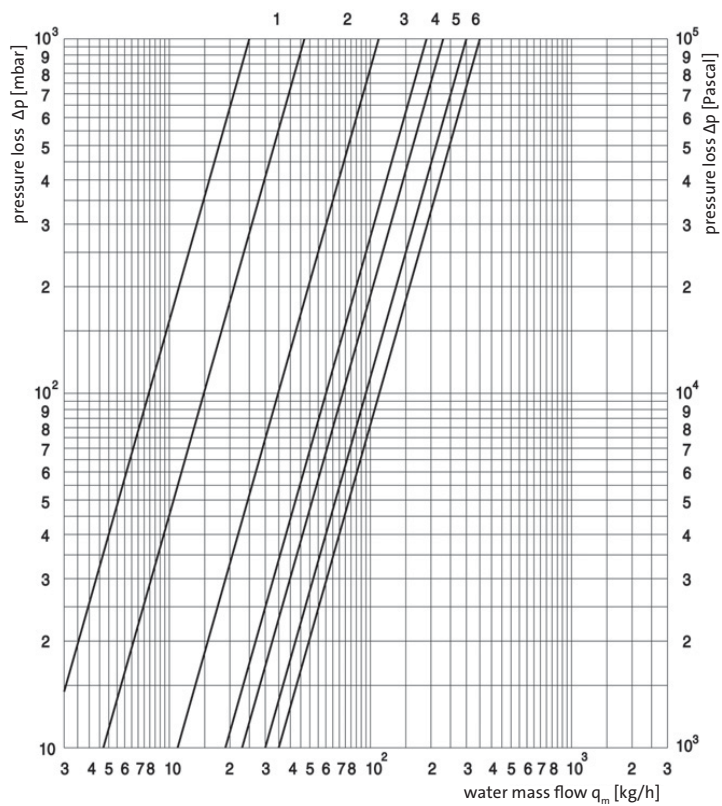
technical data

- Description : decorative column radiator, totally laser-welded. Delta-profiled cross section of the external columns for the maximized heat output.
- Height : from 155 mm up to 3000 mm, the height of the selected models matches the connecting stubs' spacing of the old-fashioned cast-iron radiators. At Clients' wish, each requested height of the radiator can be delivered, in the range between 300 mm and 3000 mm, with 1 mm precision.
- Length : from 200 mm up to 2500 mm (from 4 up to 50 segments). Depending on the radiators' types and sizes, possible integration on one side up to the length of 2000 mm (according to the relevant table). In other cases, the radiators are delivered in separate blocks – plugs, connecting nipples and gaskets inclusive – for self-assembly on the building site; length tolerance: from 0% up to +1%.
- Depth :

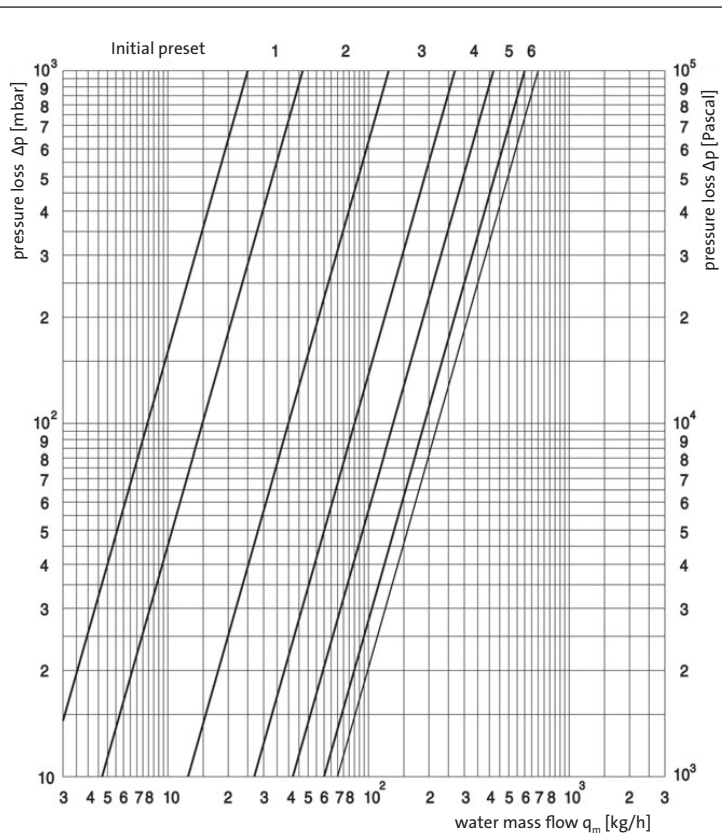
2-columned: 63 mm	5-columned: 177 mm
3-columned: 101 mm	6-columned: 215 mm
4-columned: 139 mm	
- Connection : bottom 2 x G ½" (note: middle connection possible only for radiators with even number of segments and overall length up to 30 segments). With order, please provide the information on the connection variant, conforming to the relevant option **(see page 44)**
- Delivery range : radiator delivered without brackets – to be ordered separately, depending on the radiator's type and size; factory mounted valve insert with connecting thread M30x1.5 mm.
- Brackets : see: accessories, plug and air vent included with brackets
- Colour : as standard snow-white RAL 9016 varnish, other RAL colours at request
- Operating pressure : 10 bars
- Test pressure : 13 bars
- Max. temperature : 120°C
- Packaging : packed for transport in environmental friendly, edge-protecting packaging, welded in foil.

NOTE: Heat outputs for the Delta Laserline Ventil radiators are identical as for analogous Delta Laserline models. Please use the tables on the previous pages.

Valve insert setting



Hydraulic characteristics of the bottom-supplied radiator with the Oventrop valve insert, for the proportional band 1K



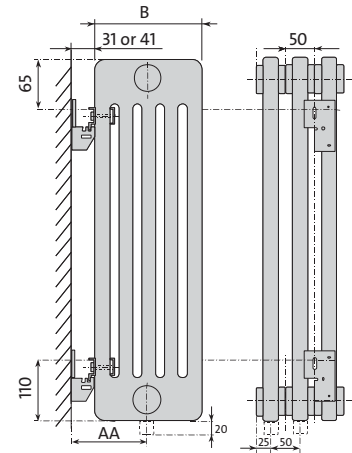
Hydraulic characteristics of the bottom-supplied radiator with the Oventrop valve insert, for the proportional band 2K

mounting distances

for the wall support kit, angle type

cat. no D952-2231, D952-2331, D952-2232, D952-2332

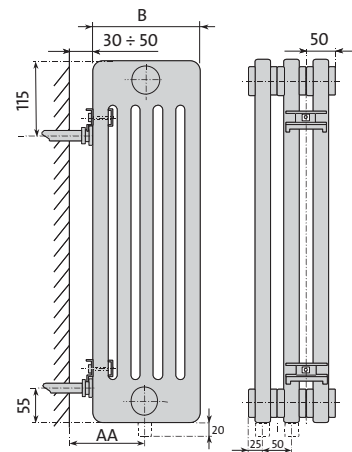
type	radiator's depth B [mm]	wall distancing WA [mm]	connectors' wall distancing AA [mm]
2 columns	63	31 or 41	63 or 73
3 columns	101	31 or 41	82 or 92
4 columns	139	31 or 41	101 or 111
5 columns	177	31 or 41	120 or 130
6 columns	215	31 or 41	139 or 149



for the wall bracket kit

cat. no D952-2233, D952-2334

type	radiator's depth B [mm]	wall distancing WA [mm]	connectors' wall distancing AA [mm]
2 columns	63	30 ÷ 50	62 ÷ 82
3 columns	101	30 ÷ 50	81 ÷ 101
4 columns	139	30 ÷ 50	100 ÷ 120
5 columns	177	30 ÷ 50	119 ÷ 139
6 columns	215	30 ÷ 50	138 ÷ 158



Brackets

Brackets are not included as standard in the radiator's kit.

In the standard execution, the Delta Laserline and Delta Laserline Ventil radiators are not equipped with welded-on brackets. Depending on the type and size of the radiator, select the proper quantity and type of the brackets, and order them separately. As standard solution for the radiators without welded-on brackets, the mounting kits are available with angle supports or drilled-in brackets. The kits consist of the adequate number and type of supports or brackets (4- or 6 element kits), radiator welded-on brackets, necessary bolts and wall plugs (each time they must be checked whether suitable, directly on the Client's building site!), air vent, plug and mounting instructions.*

It is recommended to mount the higher radiator brackets directly below the upper connecting stub.

At special orders, the delivery of in-drilled supports is possible, as well as the wall supports manufactured in non-standard variants, for mounting the radiators which are factory equipped with welded-on mounting brackets.

When selecting the required number of brackets (as based on the nomograms), it is necessary to keep to the quantity of obligatory points of suspension. Each upper point of suspension (recommended positioning – directly below the connecting stub) and each bottom point of suspension create the vertical suspension axis.

It is necessary to check every time the load and stability of the walls for the added weight resulting from mounting the selected type of the radiator.

Floor-level mounting of the 300 mm up to 1000 mm high radiators can be performed with SK2 floor stands with adjustable mounting height from the floor level. For each existing suspension axis one floor stand is recommended.

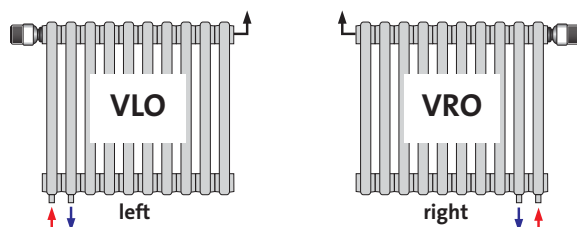
As standard, Delta Laserline radiators are delivered **without** welded-on brackets, which contributes to their versatility, as they can be rotated. Radiators with **no welded-on** brackets, regardless of the "right" or "left"-hand side mounting, can then always be ordered in the left-hand side supply variant.

* Note: the 155 mm high radiator can only be mounted with floor supports with FK4 ring anchor or WK155 wall supports.

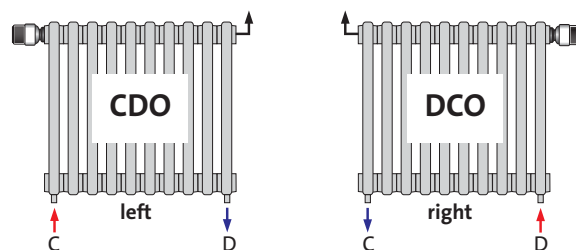
how to connect

As standard, Delta Laserline Ventil radiators are equipped with 2 bottom connectors with internal thread G1 1/2":

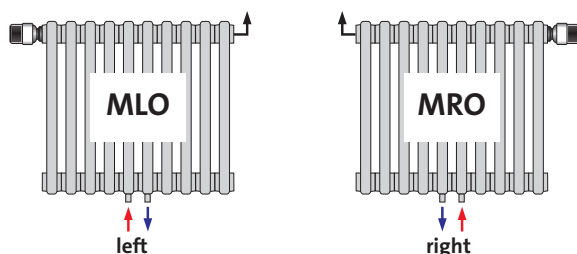
bottom connection, 1st and 2nd segment



bottom connection, 1st and last segment



bottom connection, middle
only even number of segments!

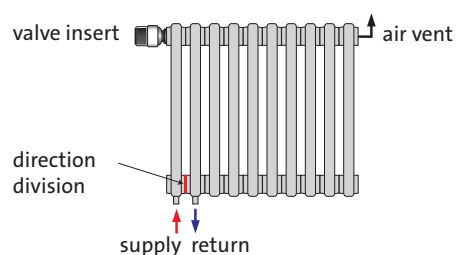


Tip

Always provide the information about the connection variant, when ordering!

example

VLO connection variant
(bottom left, 1st and 2nd segment)

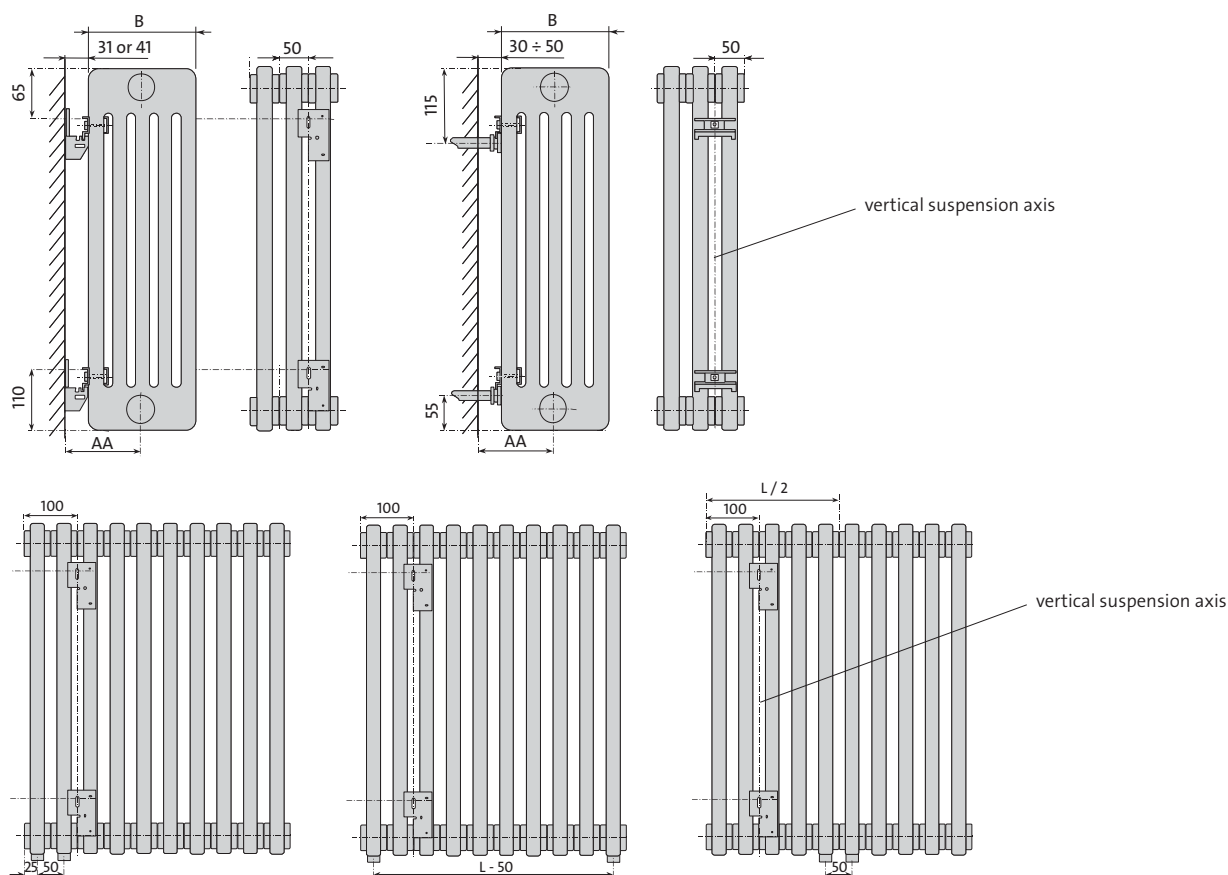


surcharges

	description	colour	cat. no	price [PLN]
	Delta Laserline Ventil radiator, all connection variants	RAL9016		catalogue price (see pages 13 – 39) plus PLN 350

Delta Laserline Delta Laserline Ventil

column radiators



Brackets

Brackets are not included as standard in the radiator's kit.

In the standard execution, the Delta Laserline and Delta Laserline Ventil radiators are not equipped with welded-on brackets. Depending on the type and size of the radiator, select the proper quantity and type of the brackets, and order them separately. As standard solution for the radiators without welded-on brackets, the mounting kits are available with angle supports or drilled-in brackets. The kits consist of the adequate number and type of supports or brackets (4- or 6 element kits), radiator welded-on brackets, necessary bolts and wall plugs (each time they must be checked whether suitable, directly on the Client's building site!), air vent, plug and mounting instructions.*

It is recommended to mount the higher radiator brackets directly below the upper connecting stub.

At special orders, the delivery of in-drilled supports is possible, as well as the wall supports manufactured in non-standard variants, for mounting the radiators which are factory equipped with welded-on mounting brackets.

When selecting the required number of brackets (as based on the nomograms), it is necessary to keep to the quantity of obligatory points of suspension. Each upper point of suspension (recommended positioning – directly below the connecting stub) and each bottom point of suspension create the vertical suspension axis.

It is necessary to check every time the load and stability of the walls for the added weight resulting from mounting the selected type of the radiator.

Floor-level mounting of the 300 mm up to 1000 mm high radiators can be performed with SK2 floor stands with adjustable mounting height from the floor level. For each existing suspension axis one floor stand is recommended.

quantity of FK4 floor stands for the height of 155 mm

number of segments		quantity of FK4 stands
from	up to	
4	20	2
21	36	3
37	52	5
53	68	7

It is necessary to check every time the load and stability of the walls for the added weight. Deliveries do not include mounting elements, bolts, plugs etc.

Brackets should always be mounted on the very top of the radiators.

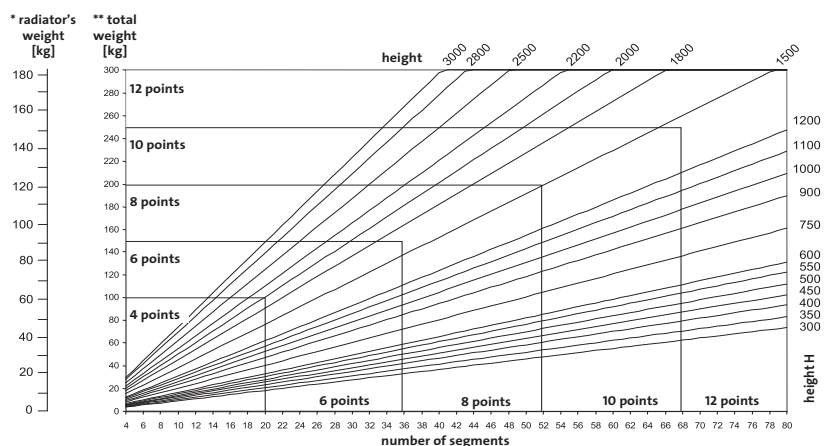
* Note: the 155 mm high radiator can only be mounted with floor supports with FK4 ring anchor or WK155 wall supports.

Nomograms for assessing the required number of suspension points for 2-, 3- and 4-columned radiators

2-columned radiator

max. block length and required suspension points

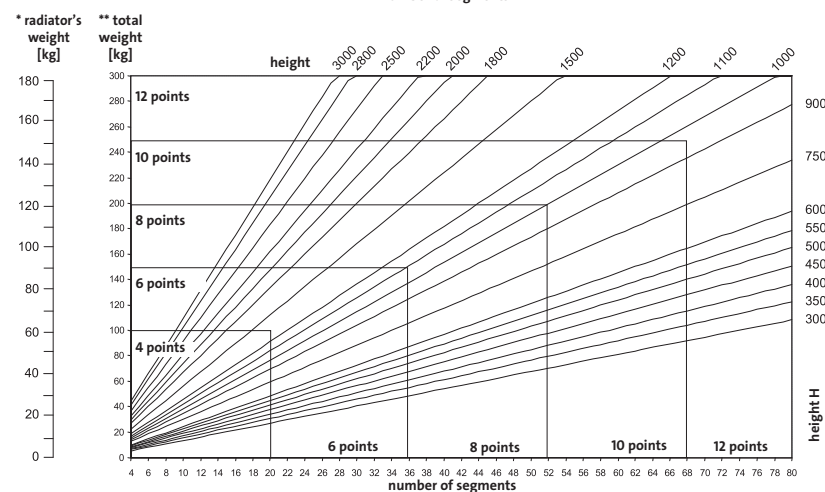
Height H [mm]	max. number of segments in one block
up to 1000	40
up to 3000	19



3-columned radiator

max. block length and required suspension points

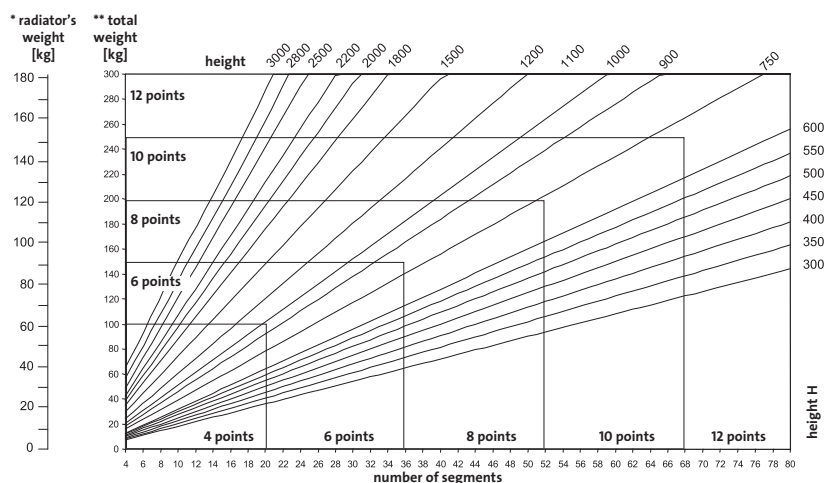
Height H [mm]	max. number of segments in one block
up to 1000	40
up to 2200	19
up to 3000	14



4-columned radiator

maksymalne długości bloku i konieczne punkty zawieszenia

Height H [mm]	max. number of segments in one block
up to 750	40
up to 1000	30
up to 1500	19
up to 2200	14
up to 3000	10



* radiator's weight: radiator drained of water
** total weight: radiator filled with water

Assessment of required suspension points for 2-, 3- and 4-columned radiators. Each upper point of suspension (recommended positioning – directly below the connecting stub) and each bottom point of suspension create the vertical suspension axis. For each existing suspension axis one floor stand is recommended. The 155 mm high radiator can only be mounted with WK155 wall supports or FK4 ring anchor stands!

Delta Laserline Delta Laserline Ventil

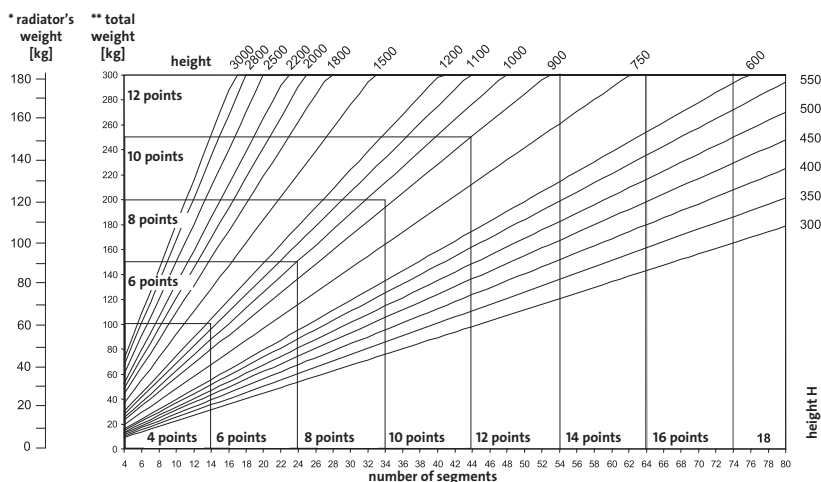
column radiators

Nomograms for assessing the required number of suspension points for 5- and 6-columned radiators

5-columned radiator

max. block length and required suspension points

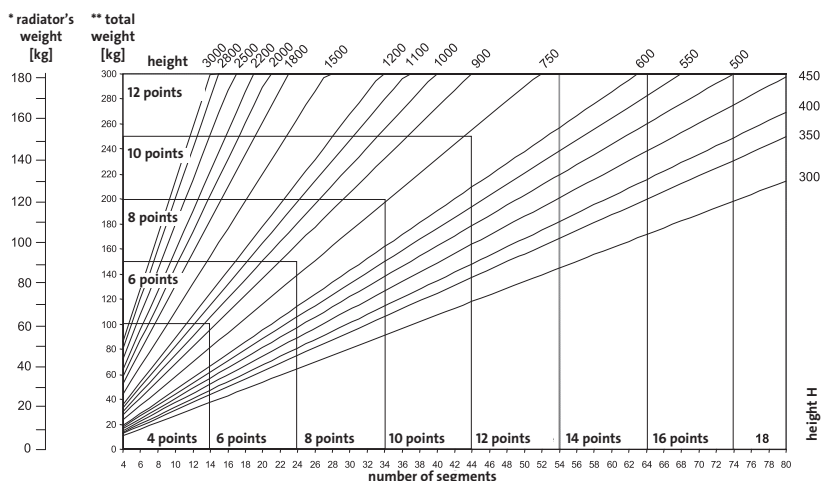
Height H [mm]	max. number of segments in one block
up to 600	40
up to 665	35
up to 750	30
up to 1000	25
up to 1200	19
up to 1500	15
up to 2500	10
up to 3000	8



6-columned radiator

max. block length and required suspension points

Height H [mm]	max. number of segments in one block
up to 500	40
up to 600	35
up to 665	30
up to 750	25
up to 1000	20
up to 1200	15
up to 1500	13
up to 2000	10
up to 2500	8
up to 3000	7



Assessment of required suspension points for 2-, 3- and 4-columned radiators. Each upper point of suspension (recommended positioning – directly below the connecting stub) and each bottom point of suspension create the vertical suspension axis. For each existing suspension axis one floor stand is recommended. The 155 mm high radiator can only be mounted with WK155 wall supports or FK4 ring anchor stands!

* radiator's weight: radiator drained of water
** total weight: radiator filled with water

general tips for delivery & mounting

interconnections

Individual Delta radiators' segments are welded with each other to create ready-to-use radiators or the radiator blocks. The number of segments which can be welded to create one radiator block is limited by the type and height of the radiator, which – in turn – influence the max. block lengths. If a radiator is ordered, whose number of segments exceeds the max. number of segments in one block, then the radiator is automatically delivered divided into smaller blocks, including connecting nipples, gaskets and threaded plugs. The execution variant with covers welded-on from all sides is then unavailable. Smaller blocks require the interconnection, which is to be done on the Client's building site with delivered connecting nipples and nipple gaskets, as well as the dedicated nipple wrench (see accessories), to create the complete radiator.

When interconnecting the Delta radiators, it is necessary to take into account the following:

- the delivery option with covers welded-on from all sides is unavailable
- in case of the block delivery, automatically all necessary accessories are delivered too: connecting nipples, gaskets and threaded plugs
- before interconnection, please identify the left- and right-handed threads
- the dedicated wrench for block interconnection is to be ordered separately!

lengths of blocks

To facilitate dispatch and delivery of Delta radiators, longer items are delivered to the Clients' building sites divided into smaller blocks, of sizes depending on the radiator's type and height. Max. number of segments in one block is to be found on page 10.

how to interconnect the radiators

Delta column radiators are delivered in separate blocks and interconnected on the Clients' building sites, with connecting nipples. Sealing of the connection points can be done only with delivered original Delta gaskets. Using materials such as hemp or oakum is not allowed.

Connecting stubs of individual blocks, as well as nipples, have the left- and right-hand 1" thread. On the inside of the nipples, two hollows are located, where – while mounting – the interconnecting wrench's end should be slipped in.

Precise observation of the instructions below is the necessary condition to successfully seal the connection points of the blocks:

- Place the blocks horizontally on the smooth, flat surface; to protect the varnish against damage, lay some cardboard or similar soft material under the blocks.
- Carefully remove the residues of paint or impurities from the sealing points and the surface of the connecting stubs.
- Use only the original Delta connecting nipples, and 1.5 mm Delta gaskets (EPDM, white); using sealing materials such as hemp or oakum is not allowed.
- Drive both connecting nipples as deep as approximately one turn into both connecting stubs of the given block, observe the left- or right-hand threading (left-hand threads are carved on the thread's coils).
- Put one gasket positioned axially in the middle onto each nipple.
- Bring the subsequent block to and put it onto the nipples from the previous block.
- Drive the nipple connecting wrench through the free connector of the previously put-on block, as deep as the connecting nipple itself. To facilitate the process, the depth of the wrench's setting can be measured earlier from the outside, and marked on the wrench before driving it inside. Only use the wrenches which are in perfect condition. Put the turn-facilitating knob onto the quadrangular ending of the wrench.
- Turn alternately both nipples with the knob wrench. This will ensure the steady pressure and secure the sealing of the block connection points. Uneven turning will cause leaks in the sealing.
- Never turn the nipples too forcefully! The torque of the turning movement should amount to 90 +/- 10 Nm.
- Never turn the nipples single-sided, this will cause leaks in the sealing!

Delta Laserline Delta Laserline Ventil

column radiators

how to mount the plugs

After successfully interconnecting the individual blocks of the Delta radiator, threaded plugs are to be driven into free mounting openings in edge segments, and the radiator should be connected to the domestic hydronic heating system. The delivery includes left- and right-hand threaded plugs, as well as gaskets.

- Use only the original Delta connecting nipples, and 1.5 mm Delta gaskets (EPDM, white); using sealing materials such as hemp or oakum is not allowed.
- Carefully check whether the sealing surfaces and threads are damage-free.
- Put the gaskets onto the threaded plugs.
- At first drive the plugs manually minding the left- or right-hand thread. Observe whether the gasket is positioned properly, so that the entire cross section would be effectively sealed, and the gasket stayed undeformed.
- At the last stage, use only adequate tools (wrenches, socket wrenches or box-end wrenches). The torque of the turning movement should amount to 90 +/- 10 Nm. Using pipe monkey wrenches or similar tools is not allowed.
- The 1" thread of the block mounting openings is not suitable for direct connection of the hydronic heating systems' pipes; for the proper connection use driven-in plugs with connecting openings, as well as delivered gaskets.

short instructions on how to connect the blocks

- *Select the smooth, flat surface. Lay some soft material, e.g. cardboard, under the radiator to protect the varnish against damage.*
- *Carefully place the radiator on the prepared surface.*
- *Carefully clean the impurities and residues of paint from the points where the nipples will be driven into.*



- *Bring the subsequent block to and put it onto the nipples from the previous block.*



- *Bring the subsequent block to and put it onto the nipples from the previous block.*



- *Drive the connecting nipple wrench through the connector of the last put-on block, until it joins the nipple itself.*



- *Put the knob onto the quadrangular ending of the nipple wrench.*
- *Turn alternately both nipples with the knob wrench. This will ensure the steady pressure and secure the sealing of the block connection points. Uneven turning will cause leaks in the sealing.*
- *Never turn the nipples too forcefully. The torque of the turning movement should amount to 90 +/- 10 Nm.*





Delta Twin M

Purmo's Delta Twin M decorative radiators integrate the state of the art technology of execution with remarkable design, providing their Users with highest qualities of climate comfort and functionality. The bottom middle connection solution present in all height options of the Twin M radiators, in association with the elegant yet practical tower drying rail offered as standard and the high heat output, make these radiators highly suitable for application in large designer bathrooms or even bathing rooms. Regularly manufactured as a 2-columned version only (in 5 height varieties and 2 length options), in RAL 9016 snow-white coloring, at Clients' request Delta Twin M can be delivered in any other available RAL colour.

technical data

- Description : decorative laser-welded radiator. Vertical columns in the typical Delta profile flattened from the outside. Delta Twin M delivered as standard with a towel rail in the colour option matching the radiator's, with chrome grips.
- Height : 1000, 1200, 1500, 1800, 2000 mm
- Length : 500 mm (10 segments), 600 mm (12 segments)
- Depth : 2-columned - 63 mm
- Connection : bottom middle connection, 2 x G ½" internal threaded connecting stubs (50 mm spacing), air vent on the top right-hand side (air vent included in the radiator's kit).
- Brackets : brackets welded on the back, suspending elements included with delivery (4 x RK2 support kit).

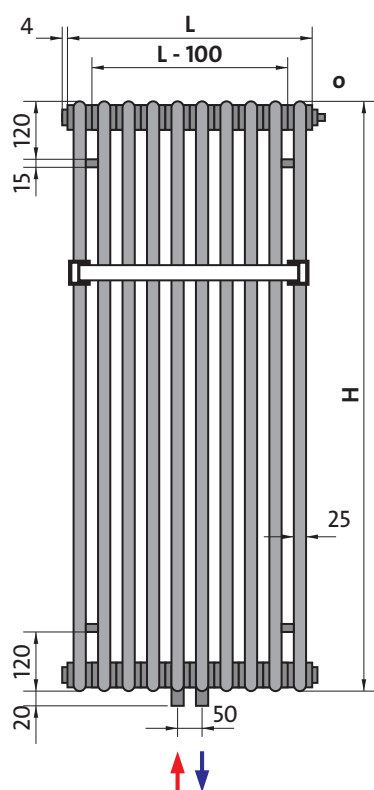


- Colour : as standard snow-white RAL 9016 varnish, other RAL colours at request
- Operating pressure : 10 bars
- Test pressure : 13 bars
- Max. temperature : 120°C
- Packaging : packed for transport in environmental friendly, edge-protecting packaging, welded in foil.

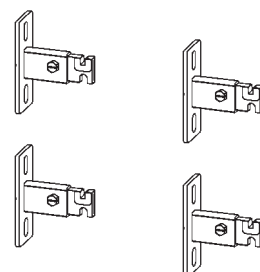
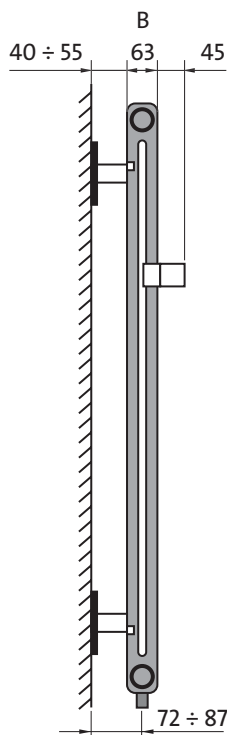
Delta Twin M

column radiators

front view



side view



RK2 brackets for the Delta Twin M radiator

H - overall height
L - overall length
B - depth
o - air vent

H [mm]	1000	1200	1500	1800	2000
number of columns	2	2	2	2	2
B [mm]	63	63	63	63	63
type	DT2100..	DT2120..	DT2150..	DT2180..	DT2200..
number of segments	PLN	PLN	PLN	PLN	PLN
L [mm]	[W]	[W]	[W]	[W]	[W]
10	753	893	1106	1322	1468
500	2569 607 391	2722 718 460	3013 887 564	3231 1057 668	3416 1172 739
12	904	1072	1328	1587	1762
600	2752 729 469	2935 862 553	3283 1065 677	3530 1269 802	3692 1406 887

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C, 70/55/20°C and 55/45/20°C.

n value	1.2684	1.2823	1.3023	1.3197	1.3289
---------	--------	--------	--------	--------	--------

weight [kg]					
10					
500	15.9	19.0	23.6	28.2	31.2
12					
600	19.1	22.8	28.3	33.8	37.4

capacity [l]					
10					
500	10.2	11.9	14.6	17.2	19.0
12					
600	12.2	14.3	17.5	20.6	22.8

The prices in the tables above refer to radiators in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours - see page 66-69). Radiators' prices include three plugs, air vent, wall brackets' kit, decorative towel rail in the colour option matching the radiator's, with chrome details. Net prices excluding VAT. PKWiU 28.22.11-50.20.

Price in PLN — 2569 ⁷⁵³ ₆₀₇ ₃₉₁ — [W] 75/65/20°C
— [W] 70/55/20°C
— [W] 55/45/20°C



Delta Bar

Purmo's Delta Bar radiator ingeniously integrates the heating function with that of furniture, suitable for the requirements of the most demanding Clients. While other Delta radiators discreetly perform their function, this one literally catches everyone's eye! Designed by the renown architects, thanks to both its elegance and functionality, it is at the same time enchanting and one of a kind. The Delta Bar is an upper class decorative radiator, which can serve as a worktop, and – at the same time – create apartment space division, harmoniously merging these two functions. The worktop's upper board is made of e.g. wood or marble and constitutes an additional decorative detail in carefully designed high quality rooms. The ingenious solution of externally invisible hydronic heating system's connection additionally increases high esthetic qualities of the radiator. All other qualities of the Delta Laserline radiators are naturally featured by the Delta Bar, which signifies that whatever your internal arrangement is – you will certainly find a matching solution in our offer. High quality varnishing in RAL colours further enriches the available options. Flexibility in height and length selection facilitates perfect integration with the designed room.

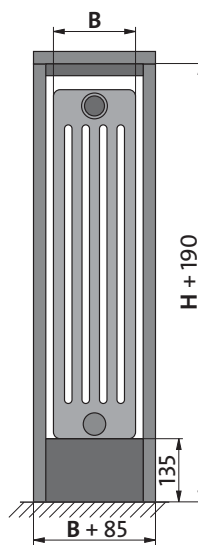
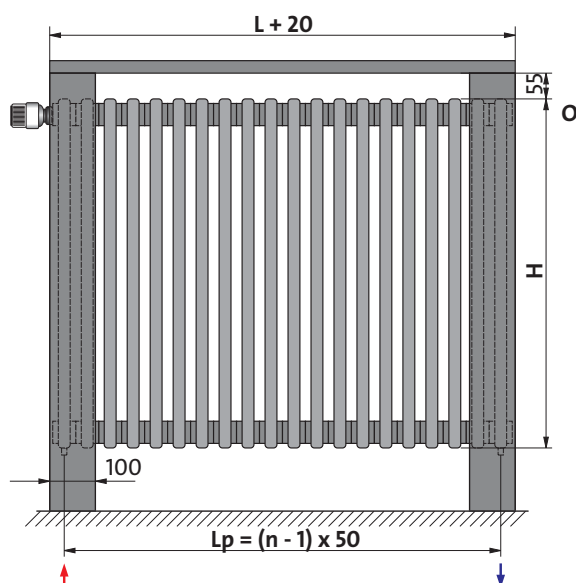
technical data

- Description : decorative radiator, totally laser-welded. Flattened cross section of the external Delta-profiled columns for maximal heat output
- Height : 940 (750)* mm, 1090 (900)* mm
- Length : 720 (700)* mm, 920 (900)* mm, 1120 (1100)* mm
- Depth : 4-columned - 224 mm; 5-columned - 262 mm
- Connection : bottom left-hand side supply in the edge segment, internal thread G ½"; bottom right-hand side return in the edge segment G ½"; factory equipped with the valve insert with initial preset together with the thermostatic valve with connecting thread M30x1.5 mm, from the top left-hand side; air vent G ½" from the top right-hand side
- Brackets : decorative kit for the on-floor mounting and radiator's connections masking, with possibility to mount the top board on the Client's site;
- Delivery range : delivery with support and decorative kit, no top board; decorative kit and top board's plugs and bolts not included.
- Colour : as standard snow-white RAL 9016 varnish, other RAL colours at request; possibility to order radiator in a different RAL colour than decorative masking
- Operating pressure : 10 bars
- Test pressure : 13 bars
- Max. temperature : 120°C
- Packaging : packed for transport in environmental friendly, edge-protecting packaging, welded in foil.

* dimensions given for the kit without top board, radiator's dimensions given in brackets



side view



- H - overall height
 L - overall length
 B - depth
 Lp - connectors' spacing
 n - number of segments
 o - air vent

H [mm] number of columns B [mm] type	750				900			
	4 139 DB4075..		5 177 DB5075..		4 139 DB40900..		5 177 DB5090..	
number of segments L [mm]	PLN	[W]	PLN	[W]	PLN	[W]	PLN	[W]
14 700	4208	1417 1136 724	4413	1747 1401 892	4364	1665 1333 846	4606	2055 1645 1044
18 900	4557	1822 1461 931	4817	2246 1801 1147	4762	2140 1713 1087	5071	2642 2115 1342
22 1100	4906	2226 1785 1402	5222	2746 2202 1402	5159	2616 2095 1329	5535	3230 2586 1641

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C, 70/55/20°C and 55/45/20°C.

n value	1.2986	1.2997	1.3147	1.3139
---------	--------	--------	--------	--------

weight [kg]				
14 700	50.0	58.0	58.0	68.0
18 900	59.0	70.0	69.0	82.0
22 1100	69.0	82.0	81.0	97.0

capacity [l]				
14 700	21.2	26.1	24.7	30.4
18 900	27.2	33.5	31.7	39.1
22 1100	33.3	41.0	38.8	47.8

The prices in the tables above refer to radiators in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours - see page 66-69). Radiators' prices include Oventrop stage regulation thermostatic valve insert, air vent and masking mounting kit. Decorative top board not included in the price (see page 61) - as additional accessories, to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Price in PLN — 4208 — [W] 75/65/20°C
1136 — [W] 70/55/20°C
724 — [W] 55/45/20°C



Delta Column Bench

Purmo's Delta Column Bench and Column Bench V radiators ingeniously integrate the heating function with that of a sitting bench, suitable for the requirements of the most demanding Clients. While other Delta radiators discreetly perform their function, these ones literally catch everyone's eye! Designed by the renown architects, thanks to both their elegance and functionality, they are at the same time enchanting and one of a kind. The top board is made of e.g. wood or marble and constitutes an additional decorative detail in carefully designed high quality rooms. The ingenious solution of externally invisible hydronic heating system's connections additionally increases high esthetic qualities of the radiators. All other qualities of the Delta Laserline radiators are naturally featured by the Delta Column Bench series, which signifies that whatever your internal arrangement is – you will certainly find a matching solution in our offer. High quality varnishing in RAL colours further enriches the available options. Flexibility in height and length selection facilitates perfect integration with the designed room.

technical data

- Description : decorative radiator, totally laser-welded. Flattened cross section of the external Delta-profiled columns for maximal heat output. 4 up to 7 6-columned segments horizontally positioned one on top of another
- Height : 387 (200)*, 437 (250)*, 487 (300)*, 537 (350)* mm
- Length : 1535 up to 2835 mm



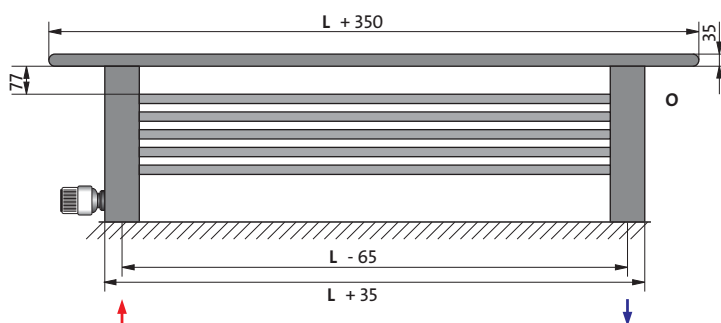
- Depth : 300 mm
- Connection : bottom left-hand side supply in the edge segment, internal thread G ½"; bottom right-hand side return in the edge segment G ½"; in Column Bench with the thermostatic valve with initial preset together with the thermostatic head with connection thread M30x1.5 mm, from the bottom left-hand side; air vent G ½" from the top right-hand side;
- Delivery range : delivery with support kit (3 supports for the radiator lengths exceeding 2000 mm) and decorative kit, no top board (delivery at Client's request)
- Colour : as standard snow-white RAL 9016 varnish, other RAL colours at request; possibility to order radiator in a different RAL colour than decorative masking
- Operating pressure : 10 bars
- Packaging : packed for transport in environmental friendly, edge-protecting packaging, welded in foil.

* dimensions given for the kit without top board, radiator's dimensions given in brackets

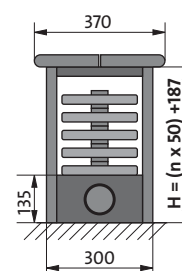
Delta Column Bench

column radiators

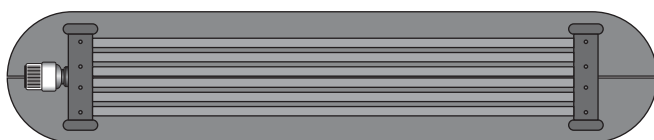
front view



side view



bottom view



H - overall height
L - overall length
B - depth
n - number of segments
o - air vent

L [mm]	1500	1800	2000	2500	2800
number of columns	6	6	6	6	6
B [mm]	215	215	215	215	215
type	DBH6150..	DBH6180..	DBH6200..	DBH6250..	DBH6280..
number of segments	PLN [W]	PLN [W]	PLN [W]	PLN [W]	PLN [W]
H [mm]					
4	1411	1696	1886	2362	2648
200	3216 1129 715	3414 1358 862	3545 1511 960	4645 1895 1208	4836 2126 1358
5	1742	2097	2334	2929	3287
250	3488 1403 901	3740 1688 1083	3902 1878 1204	5082 2354 1506	5323 2641 1687
6	1934	2337	2606	3285	3695
300	3762 1555 995	4060 1879 1203	4257 2096 1342	5522 2643 1695	5807 2974 1908
7	2204	2670	2982	3770	4247
350	4034 1772 1134	4383 2144 1368	4611 2392 1524	5958 3017 1913	6290 3395 2147

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C, 70/55/20°C and 55/45/20°C.

	n value				
4	1.3156	1.3103	1.3067	1.2978	1.2925
200					
5	1.2755	1.2789	1.2811	1.2867	1.2901
250					
6	1.2864	1.2847	1.2835	1.2806	1.2789
300					
7	1.2863	1.2940	1.2992	1.3121	1.3198
350					

	weight [kg] / capacity [l]				
4	37.5 / 16.4	42.8 / 19.3	46.4 / 21.3	55.3 / 26.2	64.2 / 29.2
200					
5	45.2 / 20.4	51.9 / 24.1	56.4 / 26.6	67.5 / 32.8	78.6 / 36.5
250					
6	52.9 / 24.5	60.9 / 29.0	66.3 / 31.9	79.6 / 39.3	93.0 / 43.8
300					
7	60.6 / 28.6	70.0 / 33.8	76.3 / 37.2	91.8 / 45.9	107.4 / 51.1
350					

The prices in the tables above refer to radiators in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours - see page 66-69). Radiators' prices include Oventrop stage regulation thermostatic valve insert, air vent and masking mounting kit. Decorative top board not included in the price (see page 61) - as additional accessories, to be ordered separately. Net prices excluding VAT. PKWiU 28.22.11-50.20

Price in PLN — 3216 1411 — [W] 75/65/20°C
1129 — [W] 70/55/20°C
715 — [W] 55/45/20°C



Delta Column Bench V

Purmo's Delta Column Bench and Column Bench V radiators ingeniously integrate the heating function with that of a sitting bench, suitable for the requirements of the most demanding Clients. While other Delta radiators discreetly perform their function, these ones literally catch everyone's eye! Designed by the renown architects, thanks to both their elegance and functionality, they are at the same time enchanting and one of a kind. The top board is made of e.g. wood or marble and constitutes an additional decorative detail in carefully designed high quality rooms. The ingenious solution of externally invisible hydronic heating system's connections additionally increases high esthetic qualities of the radiators. All other qualities of the Delta Laser-line radiators are naturally featured by the Delta Column Bench series, which signifies that whatever your internal arrangement is – you will certainly find a matching solution in our offer. High quality varnishing in RAL colours further enriches the available options. Flexibility in height and length selection facilitates perfect integration with the designed room.

technical data

- Description : decorative radiator, totally laser-welded. Flattened cross section of the external Delta-profiled columns for maximal heat output. With 4 or 5-columned segments in vertical positioning.
- Height : 490 (300)*, 540 (350)* mm
- Length : 1100 (1000)*, 1300 (1200)*, 1500 (1400)* mm
- Depth : 224 mm (4-columned) i 262 mm (5-columned)
- Connection : bottom left-hand side supply in the edge segment, internal thread G ½"; bottom right-hand side return in the edge segment G ½"; Column Bench V factory equipped with the valve insert with initial preset together with the thermostatic head with connection thread M30x1.5 mm, from the top left-hand side; air vent G ½" from the top right-hand side;
- Delivery range : complete delivery with supports and decorative kit, no top board (delivery at Client's request)
- Colour : as standard snow-white RAL 9016 varnish, other RAL colours at request; possibility to order radiator in a different RAL colour than decorative masking



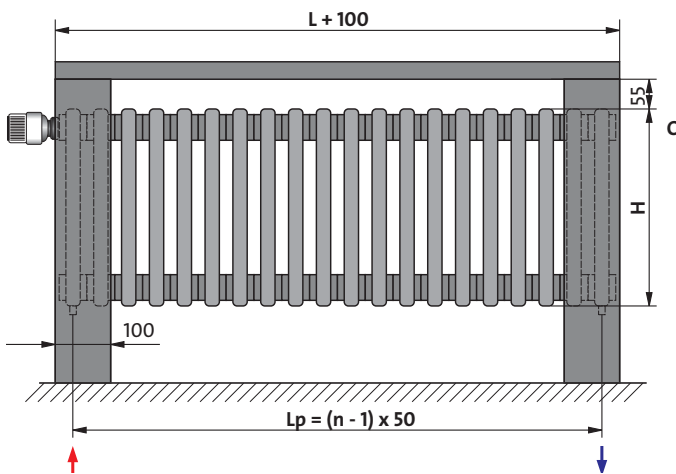
- Operating pressure : 10 bars
- Packaging : packed for transport in environmental friendly, edge-protecting packaging, welded in foil.

* dimensions given for the kit without top board, radiator's dimensions given in brackets

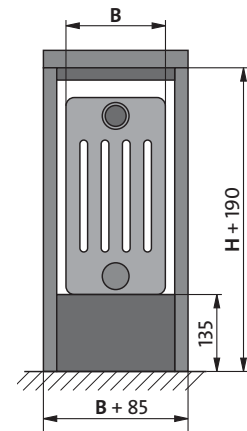
Delta Column Bench V

column radiators

front view



side view



H - overall height
L - overall length
B - depth
Lp - connectors' spacing
n - number of segments
o - air vent

H [mm] number of columns B [mm] type	300				350			
	4 139 DBV4030..		5 177 DBV5030..		4 139 DBV4035..		5 177 DBV5035..	
number of segments L [mm]	PLN	[W]	PLN	[W]	PLN	[W]	PLN	[W]
20 1000 (1100)	4097	912 740 483	4309	1120 907 590	4134	1040 843 548	4336	1280 1035 671
24 1200 (1300)	4341	1094 888 579	4596	1344 1089 708	4387	1248 1011 657	4631	1536 1242 805
28 1400 (1500)	4585	1277 1036 676	4882	1568 1270 826	4639	1456 1180 767	4922	1792 1449 939

Radiators' heat output [W] in accordance with PN-EN 442 standard for parameters 75/65/20°C, 70/55/20°C and 55/45/20°C.

n value	1.2297	1.2410	1.2390	1.2488
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weight [kg]				
20 1000 (1100)	31.0	37.0	35.0	42.0
24 1200 (1300)	36.0	42.0	40.0	48.0
28 1400 (1500)	40.0	47.0	45.0	54.0

capacity [l]				
20 1000 (1100)	15.0	18.6	16.8	20.6
24 1200 (1300)	18.0	22.4	20.2	24.6
28 1400 (1500)	21.0	26.1	23.6	28.9

The prices in the tables above refer to radiators in RAL 9016 snow-white colour. Other radiator colours are available at 22% surcharge (available colours - see page 66-69). Radiators' prices include Oventrop stage regulation thermostatic valve insert, air vent and masking mounting kit. Net prices excluding VAT. PKWiU 28.22.11-50.20

Price in PLN — 4097 — [W] 75/65/20°C
740 — [W] 70/55/20°C
483 — [W] 55/45/20°C

heating agent temperature [°C]		conversion coefficient for the convector's heat output selection at temperatures other than 75/65/20 °C							
		ti air temperature in the heated room [°C]							
t ₁	t ₂	5	8	12	16	18	20	22	24
95	90	0.48	0.50	0.54	0.57	0.59	0.61	0.64	0.66
	85	0.50	0.52	0.56	0.60	0.62	0.64	0.67	0.70
	80	0.52	0.55	0.59	0.63	0.65	0.68	0.70	0.73
	75	0.54	0.57	0.61	0.66	0.69	0.72	0.75	0.78
	70	0.57	0.60	0.65	0.70	0.73	0.76	0.79	0.83
90	85	0.52	0.55	0.58	0.63	0.65	0.67	0.70	0.73
	80	0.54	0.57	0.61	0.66	0.68	0.71	0.74	0.77
	75	0.57	0.60	0.64	0.69	0.72	0.75	0.78	0.82
	70	0.59	0.63	0.67	0.73	0.76	0.80	0.83	0.87
	65	0.62	0.66	0.71	0.77	0.81	0.85	0.89	0.93
85	80	0.56	0.59	0.64	0.69	0.72	0.75	0.78	0.81
	75	0.59	0.62	0.67	0.72	0.75	0.79	0.82	0.86
	70	0.62	0.65	0.70	0.77	0.80	0.84	0.88	0.92
	65	0.65	0.69	0.75	0.81	0.85	0.89	0.94	0.99
	60	0.68	0.73	0.79	0.87	0.91	0.96	1.01	1.07
80	75	0.61	0.65	0.70	0.76	0.79	0.83	0.87	0.91
	70	0.64	0.68	0.74	0.81	0.84	0.88	0.93	0.97
	65	0.68	0.72	0.78	0.86	0.90	0.94	0.99	1.05
	60	0.72	0.76	0.83	0.91	0.96	1.01	1.07	1.13
	55	0.76	0.81	0.89	0.98	1.04	1.10	1.16	1.24
75	70	0.67	0.72	0.78	0.85	0.89	0.94	0.98	1.04
	65	0.71	0.75	0.82	0.90	0.95	1.00	1.05	1.12
	60	0.75	0.80	0.88	0.97	1.02	1.08	1.14	1.21
	55	0.80	0.85	0.94	1.04	1.10	1.17	1.24	1.32
	50	0.85	0.91	1.01	1.13	1.20	1.28	1.37	1.47
70	65	0.75	0.79	0.87	0.96	1.01	1.07	1.13	1.19
	60	0.79	0.84	0.93	1.03	1.08	1.15	1.22	1.30
	55	0.84	0.90	0.99	1.11	1.17	1.25	1.33	1.42
	50	0.89	0.96	1.07	1.20	1.28	1.37	1.47	1.58
65	60	0.83	0.89	0.98	1.10	1.16	1.23	1.31	1.40
	55	0.88	0.95	1.05	1.18	1.26	1.34	1.43	1.54
	50	0.94	1.02	1.14	1.29	1.37	1.47	1.59	1.71
60	55	0.94	1.01	1.13	1.27	1.36	1.45	1.56	1.68
	50	1.00	1.08	1.22	1.39	1.48	1.60	1.73	1.87
	45	1.08	1.17	1.33	1.53	1.65	1.78	1.94	2.13
55	50	1.07	1.16	1.31	1.50	1.62	1.75	1.90	2.07
	45	1.15	1.26	1.43	1.66	1.80	1.96	2.15	2.37
	40	1.25	1.37	1.59	1.86	2.03	2.24	2.48	2.78
50	45	1.23	1.36	1.56	1.82	1.98	2.17	2.40	2.67
	40	1.34	1.48	1.73	2.05	2.25	2.50	2.79	3.15
	35	1.47	1.65	1.94	2.36	2.63	2.96	3.38	3.92
45	40	1.45	1.62	1.90	2.28	2.53	2.83	3.19	3.66
	35	1.60	1.80	2.15	2.64	2.96	3.37	3.89	4.58
40	35	1.75	1.98	2.40	3.00	3.41	3.93	4.62	5.54
	30	1.96	2.25	2.79	3.61	4.21	5.01	6.14	7.87

The table has been prepared for n = 1.3

example:

The design heat demand of a room is 800 W. The design supply temperature for the convector's water is 55°C, and the return one: 45°C. The design room air temperature is 20°C. For the parameters 55/45/20°C, the conversion coefficient equals 1.96. By multiplying the design heat demand (800 W) by the conversion coefficient (1.96), the heat output is

obtained (1568 W), which is the base for the convector selection at the parameters 75/65/20°C.

This means that the convector selected for the design, would achieve the heat output of 800 W for the parameters 55/45/20°C, and 1568 W for the parameters 75/65/20°C.

Thermostatic heads

additional info

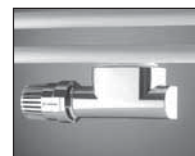
Delta Laserline Ventil column radiators are equipped with the Oventrop thermostatic valve with pre-regulation. It is suitable for the following heads:

PRODUCER	CATALOGUE NUMBER
Comap Senso RI	100 100
Danfoss RAW-K 5135	013G5135
Heimeier K	6000-00.500, 6020-00.500 6040-00.500
Heimeier DX	6700-00.500
Heimeier D	6850-00.500
Heimeier B	2500-00.500, 2502-00.500
Heimeier WK	7300-00.500
Heimeier VD	7400-00.500
Herz Classic „H”	17260 98, 19260 98, 17330 98, 19330 98
Herz Mini „H”	19200 68, 19200 38
Herz Herzcules „H”	19860 98

PRODUCER	CATALOGUE NUMBER
Honeywell Thera 2	T9001H(...), T9001W(...), T9001 08, T9001 20, T9001 50
Honeywell Thera 3	T6001H(...), T6001W(...), T6001 08, T6001 20, T6001 50
Honeywell Thera 4	T3001, T2001
Oventrop UNI XH	101 1365
Oventrop UNI LH	101 1465, 67, 68, 69
Oventrop UNI CH	101 1265
Oventrop UNI DH	101 1065
Oventrop UNI SH	101 2065
Schlosser Diamant	6001 00001
Schlosser Brillant	6002 0000 (...)
Valvex GZ 05A	4440010, 4440410
Valvex GZ 07A	4445000

Delta Twin M column radiators are not equipped with the thermostatic valve with pre-regulation. They can be connected via dedicated compound thermostatic valves of 50 mm spacing. Examples of types and producers are given in the table below. Similarly, the Delta Laserline radiators can be connected for the connection variants VL, VR, ML, MR.

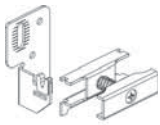
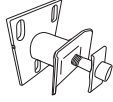
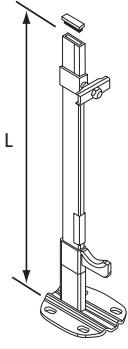
PRODUCER	CATALOGUE NUMBER	
	VALVE	HEAD
Danfoss VHX-DUO + RAX	013G4281 – white RAL 9016 kit 013G4279 – chrome kit	
Heimeier Multilux	3851-02.000 3850-02.000	as for panel radiators with thermostatic valve insert
Herz	13692 91 13694 91	19260 06, 17260 06, 19200 60, 17260 40
Honeywell Therafix	V2474YE0015 V2474YD0015	as for panel radiators with thermostatic valve insert
Oventrop Multiblock T	118 40 83 118 40 84	as for panel radiators with thermostatic valve insert
Schlosser Duo-plex	6021 00001, 6021 00003, 6021 00005, 6021 00007	as for panel radiators with thermostatic valve insert

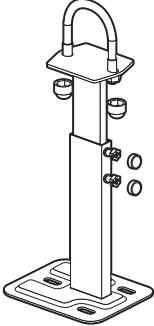
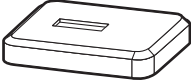


mounting distances

The distance of the radiators from the floor and the window sill should exceed 100 mm. If obtaining the recommended distancing is not possible, 70-100 mm distancing is conditionally permitted, with simultaneous heat output increase with 5-10%. If the available floor and window sill distance is smaller than 70 mm, lower radiators are to be applied. The radiator should be mounted with the factory-provided wrapping on, it should be retained on the radiator even if the central heating system is planned to be run during the finishing works, or for the purpose of drying out the building. If the wrapping is damaged,

the radiator should be differently protected against smudging. It is recommended that the wrapping be removed only after all finishing works have been concluded. Radiator's pipes should be formed in the way to prevent occurrence of stresses after they are connected with the radiator, and the radiator's connectors are screwed in. Pipe forming by bending – when already connected to the radiator, or heating the radiator with e.g. burner or soldering iron is strictly prohibited, as are other actions which might deform the radiator or damage the layer of varnish.

	description	colour	catalogue no	price [PLN]
	wall support set for column radiators of heights 265 - 3000 mm DL2, DL3, DL4, DL5, DL6 • DV2, DV3, DV4, DV5, DV6 wall distancing: 31 or 41 mm 4-element set	white	D9522231	53/set
	6-element set	white	D9522232	80/set
	Selection of the adequate quantity of the sets: see page 46 - 47 The set includes the plug and air vent.	white	D9522331 D9522332	65/set 98/set
	wall bracket set for column radiators of heights 265 - 3000 mm DL2, DL3, DL4, DL5, DL6 • DV2, DV3, DV4, DV5, DV6 wall distancing: 30 - 50 mm 4-element set	white	D9522233	61/set
	6-element set	white	D9522234	75/set
	Selection of the adequate quantity of the sets: see page 46 - 47 The set includes the plug and air vent.			
	WK155 wall support for column radiators of height 155 mm wall distancing: 40 mm load: up to 250 kg DL2 • DV2	white	D9521662	66/pc.
		colour	D9521672	66/pc.
	DL3 • DV3	white	D9521663	66/pc.
		colour	D9521673	66/pc.
	DL4 • DV4	white	D9521664	66/pc.
		colour	D9521674	66/pc.
	SK2 floor stand for column radiators of heights 300 - 1000 mm DL • DV for H = 300 mm (L = 460 mm)	white	D95224046	93/pc.
		colour	D95225046	114/pc.
	for H = 350 mm (L = 510 mm)	white	D95224051	93/pc.
		colour	D95225051	114/pc.
	for H = 400 mm (L = 560 mm)	white	D95224056	93/pc.
		colour	D95225056	114/pc.
	for H = 450 mm (L = 610 mm)	white	D95224061	93/pc.
		colour	D95225061	114/pc.
	for H = 500 mm (L = 660 mm)	white	D95224066	93/pc.
		colour	D95225066	114/pc.
	for H = 550 mm (L = 710 mm)	white	D95224071	93/pc.
		colour	D95225071	114/pc.
	for H = 600 mm (L = 760 mm)	white	D95224076	93/pc.
		colour	D95225076	114/pc.
	for H = 750 mm (L = 910 mm)	white	D95224091	93/pc.
		colour	D95225091	114/pc.
	for H = 900 mm (L = 1060 mm)	white	D95224106	93/pc.
		colour	D95225106	114/pc.
	for H = 1000 mm (L = 1160 mm)	white	D95224116	93/pc.
		colour	D95225116	114/pc.

	description	colour	catalogue no	price [PLN]
	SK2 stand masking cover (for the finished floor) plastic	white	D9522401	15/pc.
	FK4 floor stand for column radiators of height 155 mm DL • DV adjustable elevation from the floor in the range between 170 and 290 mm	white colour	D9522623 D9522626	93/pc. 114/pc.
	FK4 stand masking cover plastic	white	D9522025	15/pc.
	straight rail 2 chrome grips dimensions [mm]: 30 x 10 x (300 - 1000) * XX - number of segments, from 06 up to 20 e.g. D881212520 (rail's length 1000 mm)	white colour	D8812125XX* D8812155XX*	220/pc. 269/pc.
	nipple wrench length 1000 mm, 1" for blocks of max. 19 segments length 1600 mm, 1" for blocks of max. 30 segments length 2200 mm, 1" for blocks of max. 40 segments		D8810310 D8810311 D8810312	138/pc. 170/pc. 201/pc.
	nipple knob		D8810307	41/pc.
	decorative top board for Delta Column Bench material: beech for the type DBH6150.. for the type DBH6180.. for the type DBH6200.. for the type DBH6250.. for the type DBH6280.. decorative top board for Delta Bar material: beech for the type DB407514, DB409014 for the type DB407518, DB409018 for the type DB407522, DB409022 for the type DB507514, DB509014 for the type DB507518, DB509018 for the type DB507522, DB509022		D852236150 D852236180 D852236200 D852236250 D852236280 D85223409014 D85223409018 D85223409022 D85223509014 D85223509018 D85223509022	2579/pc. 2591/pc. 2642/pc. 2735/pc. 2876/pc. 3299/pc. 3380/pc. 3463/pc. 3475/pc. 3572/pc. 3670/pc.

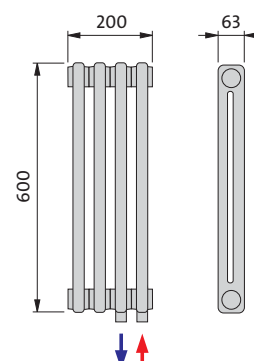
how to create product description

Entry 1 Symbol of the radiator															
D - Delta															
Entry 2 Type of the radiator															
1 - Laserline															
2 - Laserline Ventil															
Entry 3 Number of columns (from 2 up to 6)															
2 - 2-columned radiator															
...															
6 - 6-columned radiator															
Entries 4 - 7 Height of the radiator (from 155 up to 3000 mm)															
0155 - height 155 mm															
...															
3000 - height 3000 mm															
Entries 8 - 9 Number of segments (from 4 up to 50)															
04 - 4 segments															
...															
50 - 50 segments															
Entry 10 Connection variant															
1 - AB, FE - side; single-sided															
2 - AE, FB - side; crossed															
5 - VL, VR, CD, DC, ML, MR - bottom; left/right/edge/middle (for Delta Laserline)															
C - VLO, VRO, CDO, DCO, MLO, MRO - bottom - left/right/edge/middle; valve insert at the top; air vent 1/2"; no thermostatic head (for Delta Laserline Ventil)															
Entry 11 Execution variant															
0 - standard; versatile (rotatable radiator)															
1 - left - enter only for radiators with welded-on brackets															
2 - right - enter only for radiators with welded-on brackets															
Entry 12 Arrangement of connectors															
0 - standard; for bottom-connected radiators															
1 - standard; for side-connected radiators															
Entry 13 Non-standard connections															
0 - no non-standard connections; side connection															
1 - VL/VLO - 1 st and 2 nd segment; left-hand side version															
2 - VR/VRO - 1 st and 2 nd segment; right-hand side version															
3 - ML/MLO, MR/MRO - 1 st and 2 nd segment; middle connection															
6 - CD/CDO - 1 st and last segment; left-hand side version															
7 - DC/DCO - 1 st and last segment; right-hand side version															
Entry 14 Fixing brackets															
0 - standard; no fixing brackets															
Entry 15 Colour															
A - standard; RAL 9016 snow white															
3 - other RAL 9016 colour															
Entry 16															
0 - standard; complete radiator															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	1	2	0	6	0	0	0	4	5	0	0	2	0	A	0

Product description example for the Delta Laserline radiator, as shown in the neighboring picture:

2-columned radiator, height 600 mm, 4 segments (length 200 mm), bottom right-hand side connection
- VR variant, versatile radiator - no fixing brackets, RAL 9016 coloring, delivered in one block

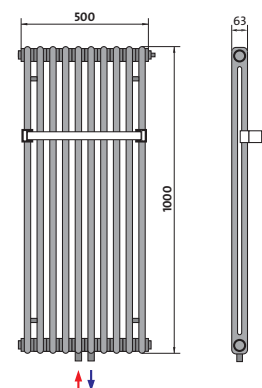


how to create product description

Entry 1 Symbol of the radiator D - Delta															
Entry 2 Type of the radiator 4 - Twin M															
Entry 3 Number of columns 2 columns only 2 – 2-columned radiator															
Entries 4 - 7 Height of the radiator (from 1000 mm up to 2000 mm) 1000 - height 1000 mm ... 2000 - height 2000 mm															
Entries 8 - 9 Number of segments (10 or 12) 10 – 10 segments 12 – 12 segments															
Entry 10 Connection variant 2 – standard; middle left-hand side connection; top right-hand side air vent															
Entry 11 Non-standard connections variant 1 – standard; no non-standard connections															
Entry 12 Fixing brackets 0 – standard; RK fixing brackets															
Entry 13 Non-standard connections 1 – standard; with air vent 0 – option for connection with an electric heater															
Entry 14 Fixing brackets 0 – standard; 4 fixing brackets															
Entry 15 Colour A – standard; RAL 9016 snow white 3 – other RAL 9016 colour															
Entry 16 0 - standard; complete radiator															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
D	4	2	1	0	0	0	1	0	2	1	0	1	0	A	0

Product description example for the Delta Twin M radiator, as shown in the neighboring picture:
2-columned radiator, height 1000 mm, 10 segments (length 500 mm), middle left-hand side connection – ML variant, fixing brackets, RAL 9016 coloring, delivered in one block



Warranty terms and conditions for Delta radiators

1. PURMO Delta panel radiators are marketed based on the Declaration of Conformity relevant to the applicable national or international standards and in accordance with all applicable domestic acts, regulations and codes.
2. **RETTIG HEATING Sp. z o.o. based in Rybnik, Poland, at ul. Przemysłowa (henceforth referred to as the Warrantor) hereby grants a Warranty valid for 10 years (dating from the date of the purchase) and the territory of the Republic of Poland, but no longer than 11 years from the manufacturing date as specified on the radiator, for the PURMO column radiators mounted in hydronic central heating systems.**
3. **The Warranty covers the radiators** connected to the hydronic central heating systems of the sealed water-circulating type, with the membrane expansion tank, provided with the local air vents (central air vent system is therefore not acknowledged), supplied from either a heat exchanger or a boiler, made from black steel pipes, copper pipes or plastic pipes with anti-diffusion barrier, and mounted in residential buildings, office buildings, service buildings or others, where no aggressive substances are present in indoor air, which could inflict the development of corrosion, and where no permanent or temporary influence of moisture on the radiators' surfaces can be guaranteed. Mounting of PURMO Delta column radiators in the small systems of up to 25 kW of the open-vent type is allowed, providing that approved corrosion inhibitors are regularly applied in these systems.
4. The successful Warranty claim can be made if:
 - **any valid proof of purchase (such as an invoice) is available,**
 - **the radiators were mounted in hydronic central heating systems in accordance with the domestic technical regulations and quoted relevant standards,**
 - **the Warrantor's directives were followed, as specified in the "Terms and Conditions of Application of Purmo Delta column radiators".**
5. The operating pressure of any hydronic central heating system with PURMO Delta column radiators must not exceed the value of 10 bars, and the maximum operation temperature equals to 120°C.
High buildings and towers require the zonal division of heating systems. The heating system water tightness check must be performed at the test pressure level equal to the one of the operating pressure planned for the given system, adding 2 bars, but no lower than 4 bars.
Maximum allowable pressure while the system's tightness is tested amounts to 12 bars.
6. **The Warranty shall not cover the radiators which:**
 - were mounted in any hydronic central heating system connected to a high-temperature district heat distribution system by the means of jet pumps or district heating substations with pump mixing loops,
 - or were mounted in swimming-pool halls, car washes, commercial laundries, slaughterhouses, public conveniences, bathrooms or other rooms, where such aggressive substances are present in indoor air which could inflict the development of corrosion, or the radiators' surfaces are exposed to temporary or permanent contact with moisture,
 - or were mounted in any hydronic central heating system permanently in connection with a water supply system with no so called anti-contamination protection accessories mounted on the connection point, which would effectively prevent backflow,
 - or were mounted in any hydronic central heating system which will be water-drained more often and for longer periods than resulting from ordinary operational requirements,
 - or were mounted in steam heating systems,
 - or were mounted in any hydronic central heating system where any allowable values of any crucial water quality indicators will not be observed, such as:
 - the total concentration of chlorine and sulfur ions must not exceed the value of 150 mg/l (for copper pipe systems the relevant value is 50 mg/l),
 - the oxygen concentration must not exceed the value of 0.1 mg/l,
 - the water pH value must hold within 8.0 ÷ 9.5,
 - the general water hardness must not exceed the value of 4.0 mval/l.
7. The Warranty shall not cover any damages to the radiators or their accessories which would result from the improper use, storage, transportation or application other than intended and implied by the Manufacturer.
The above especially concerns the radiators which:
 - were stored outdoors before mounting,
 - or were damaged mechanically,
 - or were internally contaminated with harmful liquids or solids,
 - or were deformed by too high test pressure or system static pressure,
 - or were deformed as the result of freezing in the system.
 - together with accessories (such as covers or brackets) which were mechanically damaged due to sitting or treading on them.
8. The radiators are designed for mounting without the necessity of removing the factory-provided wrapping which should be retained on the radiator even if the central heating system is planned to be run during the finishing works, or for the

Warranty Terms and Conditions

additional info

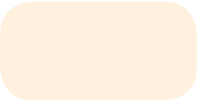
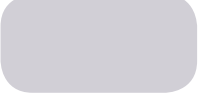
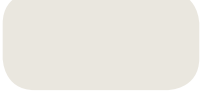
purpose of drying out the building. It is recommended that the wrapping be removed by the final User of the relevant room, only after all finishing works have been concluded.

Due to the sanitary reasons, the radiators need to be periodically cleaned. This is to be done with the application of delicate and soft fabrics, optionally slightly dampened with water. No aggressive or caustic chemicals, such as solvents or chlorine containing substances, could be applied for the cleaning of the radiators. Panel radiators must not be used for the purposes of drying wet or damp objects which would be directly laid on the radiators' surfaces. The warranty claims for the damages of the radiator painted surfaces, resulting from the improper operation or maintenance will not be held as valid.

9. Total draining of the entire system or its fragment of water, and leaving it as such is not permitted. This also refers to the new systems which have undergone the water tightness tests. In case the draining is necessary, due to e.g. maintenance requirements or for the purpose of repairs, water shall be removed only from the strictly necessary part of the system. When the works have been completed, the drained system needs to be water filled immediately. The amount of water necessary for the purposes of filling and replenishing the system needs to be controlled, e.g. with a water meter.
10. The Product's Warranty is valid provided that the Product has not been altered or repaired by the Buyer or any third party, without the clear consent of the Warrantor.
11. In case any Warranty covered damage or fault has been detected within the Warranty validity period, the Complaint Proceeding will be commenced on receiving by the Seller the properly completed dedicated Complaint Form, including the detailed description of the damage or fault detected, together with all the necessary details required in the Form. The Form shall be associated with the relevant proof of purchase, such as an invoice or its copy. Thereupon, the Seller will accept the Claim and forward it to the Warrantor by the means of registered mail, fax or e-mail, within 24 hours after receiving it. In case an incomplete Form has been sent, which prevents it from being acknowledged, the mentioned Form will be then returned by the Warrantor for the completion of data. In individual cases, the Warrantor reserves the right to request the completion of the Complaint Claim with the photographic documentation featuring the subject of the Claim. The Warrantor accepts the obligation to address the Complaint Claim in writing within 14 days upon receiving the properly completed and therefore accepted Complaint Form.
12. In order to attempt to have the Warranty successfully executed, the Warrantor shall inspect the Product under complaint, which shall take place either on site where the Product was mounted, or any other specified by the Warrantor. In case the Claim has been acknowledged as valid, the Warrantor undertakes to repair the Product free of charge, or exchange the Product subparts which have been determined as faulty due to the defective construction or material, or replace the faulty Product with the new fault-free one, within 14 days from the time the Claim was acknowledged. In individual cases, when e.g. the Claim requires importing any of the subparts or the Product itself, the Warrantor reserves the right to adequately prolong the complaint execution period, after prior written notification of the Client. In case the defects are recognized as not affecting the functionality of the Product, the Warrantor reserves the right to renounce the repair and instead offer the appropriate financial discount.
In case of a Claim which concerns any Product whose production has ceased, the Warrantor shall offer the Client a replacement Product whose parameters equal to the one under complaint, or shall offer a financial refund equivalent to its value on the day of the purchase.
13. The Warrantor reserves the right to the selection of the method in which the Warranty hereby is to be honored.
14. The Warranty validity period shall be extended for the time required to undertake any necessary Warranty covered repairs, as counted from the day when the Product was delivered to the Warrantor's site, until the day the Product is considered as repaired, and in case the radiator replacement is necessary, the new Warranty period starts.
15. The Warrantor reserves the right to implement alterations to their Products without any prior notice, as far as the mentioned alterations can still be considered as insignificant technical modifications, not influencing the radiator selection process.
16. The Warranty terms and conditions hereby covering the purchased commercial goods do not exclude, limit or suspend other Buyer's rights resulting from the incompatibility of the goods purchased with the agreement of purchase, in accordance with all applicable domestic regulations and codes.
17. The Warranty terms and conditions hereby come into effect starting from 1st February 2011.



Colour samples presented below are for general information purpose only. Before purchase, decide on the preferred colour basing only on the original RAL colour pattern book. The Manufacturer will not be held responsible for the unsatisfactory colour selection when based on the computer printouts, or viewing the screen representation.

				
RAL 1003	RAL 1004	RAL 1013	RAL 1015	RAL 2002
				
RAL 3002	RAL 3003	RAL 3015	RAL 4005	RAL 4007
				
RAL 5000	RAL 5001	RAL 5002	RAL 5003	RAL 5011
				
RAL 5013	RAL 5014	RAL 5015	RAL 5017	RAL 5018
				
RAL 5020	RAL 5021	RAL 5022	RAL 5023	RAL 6000
				
RAL 6005	RAL 6016	RAL 6019	RAL 6027	RAL 6029
				
RAL 7001	RAL 7013	RAL 7015	RAL 7016	RAL 7030
				
RAL 7035	RAL 7036	RAL 7047	RAL 8003	RAL 8017
				
RAL 9001	RAL 9002	RAL 9005	RAL 9006*	RAL 9007*
				
RAL 9010	RAL 9016			

NOTE!!! The same colour shades can differ visually on the radiators of different types.

**) metallic colours*

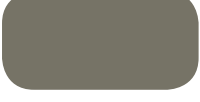
Additional colours

additional info

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RAL 4004	RAL 4006	RAL 4008	RAL 4009	RAL 4010
				
RAL 5004	RAL 5005	RAL 5007	RAL 5008	RAL 5009
				
RAL 5010	RAL 5012	RAL 5019	RAL 5024	RAL 6001
				
RAL 6002	RAL 6003	RAL 6004	RAL 6006	RAL 6007
				
RAL 6008	RAL 6009	RAL 6010	RAL 6011	RAL 6012
				
RAL 6013	RAL 6014	RAL 6015	RAL 6017	RAL 6018
				
RAL 6020	RAL 6021	RAL 6022	RAL 6024	RAL 6025
				
RAL 6026	RAL 6028	RAL 6032	RAL 6033	RAL 6034
				
RAL 7000	RAL 7002	RAL 7003	RAL 7004	RAL 7005
				
RAL 7006	RAL 7008	RAL 7009	RAL 7010	

Additional colours

additional info

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NOTE!!! The same colour shades can differ visually on the radiators of different types.

The below certificates of the British Standards Institution are only one out of numerous confirmations of the integrated quality management and environmental management systems in accordance with ISO 9001 and ISO 14001 international standards, which have been introduced in our Company.



Rettig Heating

Is the multinational concern originating in Finland, and the largest radiator manufacturer in Poland and Europe. The key to our success is the exceptionally high quality of our products, associated with partnership and assistance offered to our cooperators. Our radiators have proven themselves in such harsh climate conditions as the ones of the north Scandinavia. Being in business for over 50 years, we have acquired the trust and respect of the Clients on almost all European markets, as well as the oversea ones.

We are especially proud of our biggest and most effective sales network, thanks to which our involvement in servicing minor investments is as committed, as in case of the major ones.

The positive image of Rettig Heating is owed to highly trained and experienced managers and engineers. Our District Managers maintain steady contact with sales points, designers, installers and investors, deeply caring for the highest possible quality of assisting our Clients.

Currently, our employment records show over 300 of personnel in Poland only. Our policy is continuous investment in future management staff by cooperation with academic centers throughout Poland. We organize trainings and workshops for designers and installers – all out of concern for the satisfaction of our Clients who can always depend on our assistance.

notes

[illegible]

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PURMO 
clever heating solutions