

Aklimat M

standard aluminium radiator

Do you wish to replace old radiators with the new ones having good quality? We can offer you radiators from Aklimat M family! You can rely on their quality and many other features permit us to fulfil many other expectations and needs of customers.



MADE OF ALUMINIUM
GOOD THERMAL CONDUCTIVITY
LONG LIFE EXPECTANCY
10 YEARS OF GUARANTEE
CHOICE OF COLOURS ACCORDING TO RAL CHART
VARIOUS DIMENSIONS CAN BE ORDERED
SIMPLE MOUNTING



Table of calorific power for radiators of standard connection sizes

| | Connection size A [mm] | Height B [mm] | Heated area [m ²] | Weight of a single column [kg] | Quantity of water in the column [l] | Connections Φ | DIN EN 442 ΔT 50 K Wat/column | DIN EN 442 ΔT 60 K Wat/column | Constant K | Exponent n |
|---------------|------------------------|---------------|-------------------------------|--------------------------------|-------------------------------------|--------------------|---------------------------------------|---------------------------------------|------------|------------|
| M 200 | 200 | 241 | 0,20 | 0,66 | 0,15 | 1" | 61 | 78 | 0,36550 | 1,3087 |
| M 350 | 350 | 391 | 0,33 | 0,87 | 0,20 | 1" | 90 | 115 | 0,50178 | 1,3263 |
| M 500 | 500 | 541 | 0,46 | 1,07 | 0,25 | 1" | 116 | 149 | 0,61996 | 1,3382 |
| M 524 | 524 | 565 | 0,48 | 1,10 | 0,26 | 1" | 121 | 154 | 0,63686 | 1,3401 |
| M 570 | 570 | 611 | 0,52 | 1,17 | 0,27 | 1" | 129 | 164 | 0,66800 | 1,3438 |
| M 600 | 600 | 641 | 0,54 | 1,21 | 0,28 | 1" | 136 | 174 | 0,69941 | 1,3462 |
| M 650 | 650 | 691 | 0,58 | 1,28 | 0,29 | 1" | 142 | 181 | 0,71829 | 1,3501 |
| M 900 | 900 | 941 | 0,80 | 1,62 | 0,37 | 1" | 180 | 232 | 0,84797 | 1,3700 |
| M 930 | 930 | 971 | 0,82 | 1,66 | 0,38 | 1" | 185 | 238 | 0,86393 | 1,3715 |
| M 1024 | 1024 | 1065 | 0,90 | 1,79 | 0,41 | 1" | 199 | 256 | 0,91168 | 1,3763 |
| M 1200 | 1200 | 1241 | 1,05 | 2,04 | 0,47 | 1" | 224 | 289 | 0,99212 | 1,3854 |
| M 1400 | 1400 | 1441 | 1,22 | 2,31 | 0,53 | 1" | 252 | 325 | 1,07107 | 1,3956 |
| M 1600 | 1600 | 1641 | 1,39 | 2,59 | 0,59 | 1" | 279 | 359 | 1,20296 | 1,3917 |
| M 1800 | 1800 | 1841 | 1,56 | 2,86 | 0,65 | 1" | 305 | 393 | 1,33497 | 1,3879 |
| M 2000 | 2000 | 2041 | 1,73 | 3,14 | 0,71 | 1" | 330 | 425 | 1,46739 | 1,3840 |

We withhold the right to change conditions!

Underlined: in stock; other items shall be delivered in 14 days.

Example of calculation:

T_v = temperature of water at inlet = 60°C
T_i = temperature of water at outlet = 40°C

T_p = temperature in the room = 20°C
T_m = average water temperature
Calculation for the type M/350 for $\Delta T = 30^\circ\text{C}$

Calculation for the type M/350 for $\Delta T = 30^\circ\text{C}$

$T_m = (T_v + T_i)/2 = (60 + 40)/2 = 50^\circ\text{C}$
 $\Delta T = T_m - T_p = 50 - 20 = 30^\circ\text{C}$

Calorific power:
 $Q = K_x \Delta T^n = 0.50178 \times 301.3263 = 45.7 \text{ W/column}$

Table of calorific power for radiators of non-standard connection sizes

| | Connection size A [mm] | Height B [mm] | Heated area [m ²] | Weight of a single column [kg] | Quantity of water in the column [l] | Connections Φ | DIN EN 442 ΔT 50 K Wat/column | DIN EN 442 ΔT 60 K Wat/column | Constant K | Exponent n |
|--------|------------------------|---------------|-------------------------------|--------------------------------|-------------------------------------|--------------------|---------------------------------------|---------------------------------------|------------|------------|
| M 250 | 250 | 291 | 0,24 | 0,73 | 0,17 | 1" | 71 | 91 | 0,41522 | 1,3146 |
| M 400 | 400 | 441 | 0,37 | 0,93 | 0,22 | 1" | 99 | 127 | 0,54371 | 1,3303 |
| M 450 | 450 | 491 | 0,41 | 1,00 | 0,23 | 1" | 108 | 138 | 0,58298 | 1,3342 |
| M 700 | 700 | 741 | 0,63 | 1,35 | 0,31 | 1" | 149 | 192 | 0,74736 | 1,3541 |
| M 750 | 750 | 791 | 0,67 | 1,42 | 0,33 | 1" | 157 | 202 | 0,77481 | 1,3581 |
| M 800 | 800 | 841 | 0,71 | 1,48 | 0,34 | 1" | 165 | 212 | 0,80066 | 1,3621 |
| M 850 | 850 | 891 | 0,75 | 1,55 | 0,36 | 1" | 173 | 222 | 0,82500 | 1,3660 |
| M 950 | 950 | 991 | 0,84 | 1,69 | 0,39 | 1" | 188 | 242 | 0,87440 | 1,3726 |
| M 1000 | 1000 | 1041 | 0,88 | 1,76 | 0,40 | 1" | 195 | 251 | 0,89980 | 1,3751 |
| M 1100 | 1100 | 1141 | 0,96 | 1,90 | 0,43 | 1" | 210 | 270 | 0,94775 | 1,3802 |
| M 1300 | 1300 | 1341 | 1,13 | 2,17 | 0,50 | 1" | 238 | 307 | 1,03313 | 1,3905 |
| M 1500 | 1500 | 1541 | 1,30 | 2,45 | 0,56 | 1" | 265 | 342 | 1,13700 | 1,3937 |
| M 1700 | 1700 | 1741 | 1,47 | 2,72 | 0,62 | 1" | 292 | 376 | 1,26894 | 1,3898 |
| M 1900 | 1900 | 1941 | 1,64 | 3,00 | 0,68 | 1" | 317 | 409 | 1,40110 | 1,3859 |
| M 2000 | 2000 | 2041 | 1,73 | 3,14 | 0,71 | 1" | 330 | 425 | 1,46739 | 1,3840 |

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