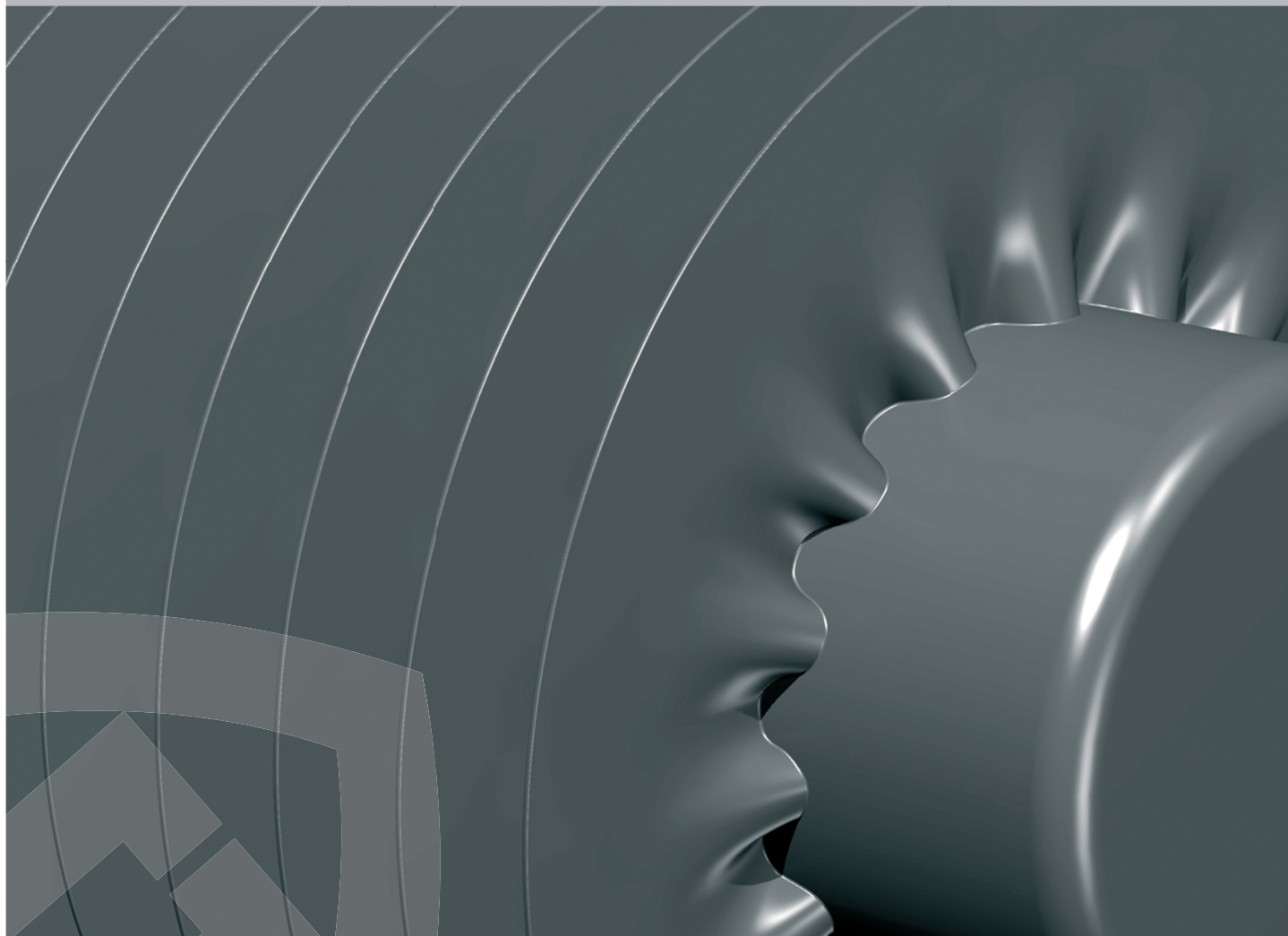
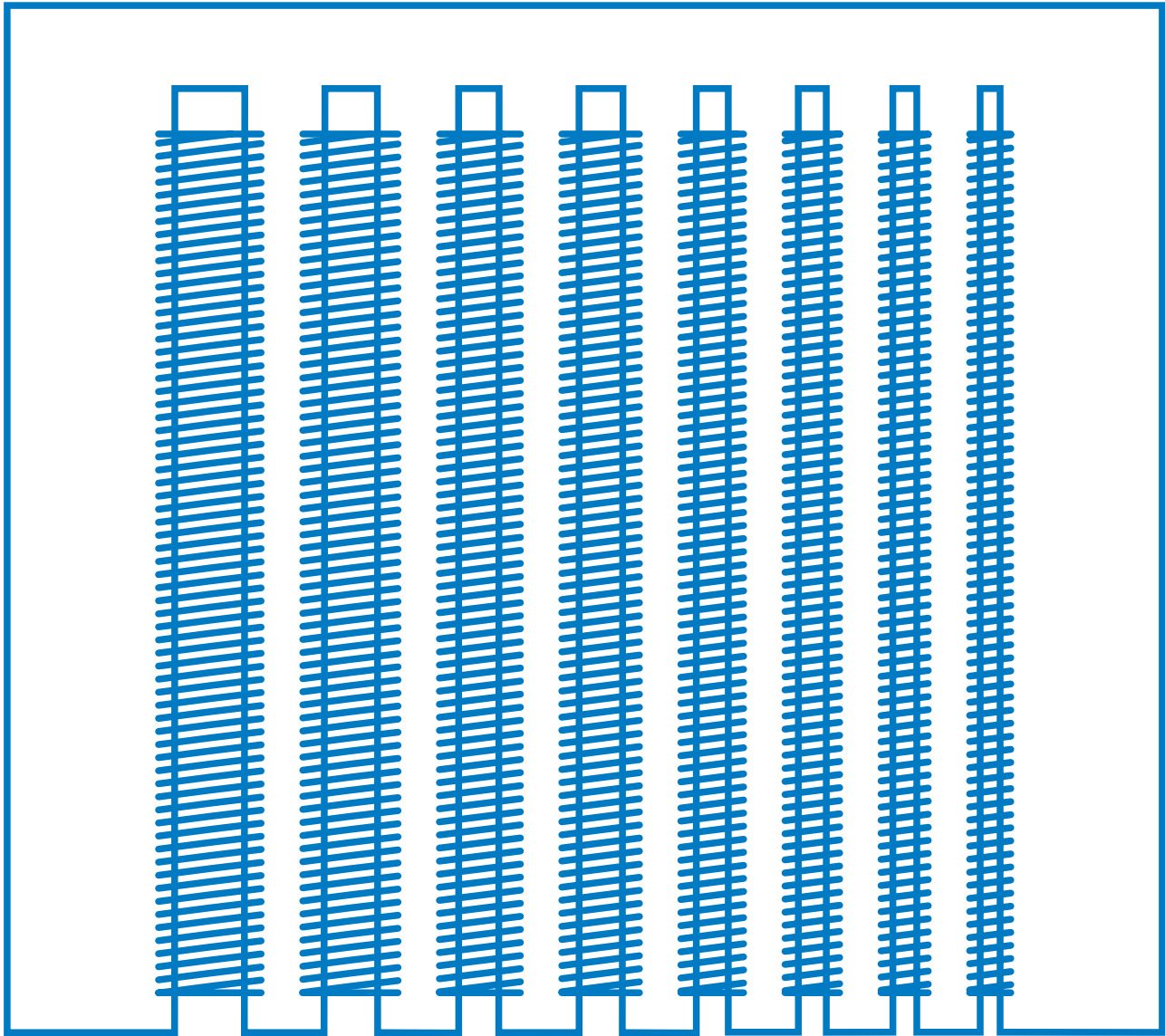




Finned Tubes



Finned Tubes for Space Heating and other thermal applications



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|-----------------------------------|----|



Finned Tubes type K manufactured from boiler tubes

| Standard Programme K | | | | | | | | | |
|--------------------------|-------------------|-----------|-----------|-----------|-----------|------------|------------|------------|-------------|
| | | K33-73-08 | K33-83-10 | K42-92-10 | K48-98-10 | K60-110-10 | K60-123-12 | K76-139-12 | K101-164-12 |
| Tube size | mm | 33,7x2,6 | 33,7x2,6 | 42,4x2,6 | 48,3x2,6 | 60,3x2,9 | 60,3x2,9 | 76,1x2,9 | 101,6x3,6 |
| Fin diameter / Fin pitch | mm | 73/8 | 83/10 | 92/10 | 98/10 | 110/10 | 123/12,5 | 139/12,5 | 164/12,5 |
| Outside surface area | m ² /m | 1,03 | 1,13 | 1,30 | 1,41 | 1,63 | 1,84 | 2,15 | 2,65 |
| Water volume | l/m | 0,6 | 0,6 | 1,1 | 1,5 | 2,3 | 2,3 | 3,9 | 7,0 |
| Weight (without water) | kg/m | 4,3 | 4,7 | 5,2 | 6,1 | 7,3 | 8,2 | 9,1 | 13,7 |
| VVS No.(in DK only) | | 337810 | 337811 | 337813 | 337814 | 337815 | 337816 | 337818 | 337819 |

Meinertz Finned Tubes are Danish quality products offering excellent mechanical and thermal properties.

Manufacture

The Finned Tubes are manufactured by helically winding a strip directly onto the tube. Due to the corrugated lower fin area the surface area of the fins is increased and at the same time a turbulent air flow is created which results in an increased performance.

Performance Test

In order to achieve optimum performances at different temperatures the relationship between tube diameter, fin height and fin pitch has been precisely calculated.

The K-programme has undergone a performance test to DS/ISO 3149 in a closed test room at the Danish Technological Institute, Copenhagen.

Description

Type K is manufactured from welded steel tubes St 37.0 with welding factor 1.0 according to DIN 2458/1626. Maximum pressure 160 bar, maximum temperature 300°C. A certificate to EN 10204/DIN 50049-3.1 B is available when requested at the time of ordering.

Tube codification

Example: K60-123-12

K = Tube and fin material

60 = Tube outside diameter (mm)

123 = Fin diameter (mm)

12 = Fin pitch (mm)

Plain Tube Option type G

As an alternative to the Finned Tube Programme K, a plain tube execution without fins is available in the same forms of supply as described on pages 8 and 9.

Forms of supply

Meinertz Finned Tubes are supplied in required lengths up to 6 m with plain ends suitable for welding or with welded sockets. Placement and dimensions of the sockets as well as the various welded construction elements are shown on pages 8, 9 and 11.

Surface treatment

If not indicated otherwise, Meinertz Finned Tubes are supplied in an untreated condition.

At an extra cost the Finned Tubes can be supplied with the paint finish RAL 9016 according to the following procedure:

1. Alkaline degreasing.
2. Phosphatizing.
3. Passivation.
4. Oven drying at 170°C.
5. Powder coating with epoxy/polyester powder mix EPPE.
6. Baking at 185°C.
7. Special packing.

At an additional extra price Meinertz Finned Tubes can be supplied in other RAL colours.

Meinertz Finned Tubes can also be supplied in the hot-dip galvanised condition on the outside or both on the outside and inside. Furthermore, the Finned Tubes can be supplied with Sendzimir zinc coated steel strip on untreated tubes.

Installation

Meinertz Finned Tubes can be installed on the floor, under the ceiling or in a floor channel. See Brackets chapter on page 10.

Applications

Meinertz Finned Tubes can be installed as a visual highlight or more discreetly by integration. There is a great variety of applications in new buildings as well as for restorations and refurbishment.

Some examples are listed below:

- Show rooms and galleries.
 - Airport terminals.
 - Covered places and arcades.
 - Offices, canteens and shops.
 - Schools, sports halls and swimming pools.
 - Rooms with large glass façades.
 - Ecological green houses, tropical houses and green forest halls.
 - Churches, meeting halls and cinemas.
 - Industrial buildings and stores.
 - Workshops, garages and petrol stations.
 - Cargo, refrigerated and passenger ships.
 - Air-conditioned stables and chinchilla farms
- as well as many other possibilities.

Warranty

Approved installations are protected by a five years warranty covering manufacturing and material defects.

Thermal capacity in watts for type K from 1,000 to 6,000 mm Temperature sets: (90/70/20)°C and (80/60/20)°C

| Δt 60K (90/70/20)°C | K33-73-08 | K33-83-10 | K42-92-10 | K48-98-10 | K60-110-10 | K60-123-12 | K76-139-12 | K101-164-12 |
|---------------------|-----------|-----------|-----------|-----------|------------|------------|------------|-------------|
| 1000 mm | 317 | 356 | 366 | 402 | 413 | 476 | 552 | 684 |
| 1200 mm | 380 | 427 | 439 | 482 | 496 | 571 | 662 | 821 |
| 1400 mm | 444 | 498 | 512 | 563 | 578 | 666 | 773 | 958 |
| 1600 mm | 507 | 570 | 586 | 643 | 661 | 762 | 883 | 1094 |
| 1800 mm | 571 | 641 | 659 | 724 | 743 | 857 | 994 | 1231 |
| 2000 mm | 634 | 712 | 732 | 804 | 826 | 952 | 1104 | 1368 |
| 2200 mm | 697 | 783 | 805 | 884 | 909 | 1047 | 1214 | 1505 |
| 2400 mm | 761 | 854 | 878 | 965 | 991 | 1142 | 1325 | 1642 |
| 2600 mm | 824 | 926 | 952 | 1045 | 1074 | 1238 | 1435 | 1778 |
| 2800 mm | 888 | 997 | 1025 | 1126 | 1156 | 1333 | 1546 | 1915 |
| 3000 mm | 951 | 1068 | 1098 | 1206 | 1239 | 1428 | 1656 | 2052 |
| 3200 mm | 1014 | 1139 | 1171 | 1286 | 1322 | 1523 | 1766 | 2189 |
| 3400 mm | 1078 | 1210 | 1244 | 1367 | 1404 | 1618 | 1877 | 2326 |
| 3600 mm | 1141 | 1282 | 1318 | 1447 | 1487 | 1714 | 1987 | 2462 |
| 3800 mm | 1205 | 1353 | 1391 | 1528 | 1569 | 1809 | 2098 | 2599 |
| 4000 mm | 1268 | 1424 | 1464 | 1608 | 1652 | 1904 | 2208 | 2736 |
| 4200 mm | 1331 | 1495 | 1537 | 1688 | 1735 | 1999 | 2318 | 2873 |
| 4400 mm | 1395 | 1566 | 1610 | 1769 | 1817 | 2094 | 2429 | 3010 |
| 4600 mm | 1458 | 1638 | 1684 | 1849 | 1900 | 2190 | 2539 | 3146 |
| 4800 mm | 1522 | 1709 | 1757 | 1930 | 1982 | 2285 | 2650 | 3283 |
| 5000 mm | 1585 | 1780 | 1830 | 2010 | 2065 | 2380 | 2760 | 3420 |
| 5200 mm | 1648 | 1851 | 1903 | 2090 | 2148 | 2475 | 2870 | 3557 |
| 5400 mm | 1712 | 1922 | 1976 | 2171 | 2230 | 2570 | 2981 | 3694 |
| 5600 mm | 1775 | 1994 | 2050 | 2251 | 2313 | 2666 | 3091 | 3830 |
| 5800 mm | 1839 | 2065 | 2123 | 2332 | 2395 | 2761 | 3202 | 3967 |
| 6000 mm | 1902 | 2136 | 2196 | 2412 | 2478 | 2856 | 3312 | 4104 |

| Δt 50K (80/60/20)°C | K33-73-08 | K33-83-10 | K42-92-10 | K48-98-10 | K60-110-10 | K60-123-12 | K76-139-12 | K101-164-12 |
|---------------------|-----------|-----------|-----------|-----------|------------|------------|------------|-------------|
| 1000 mm | 242 | 274 | 277 | 298 | 308 | 358 | 415 | 514 |
| 1200 mm | 290 | 329 | 332 | 358 | 370 | 430 | 498 | 617 |
| 1400 mm | 339 | 384 | 388 | 417 | 431 | 501 | 581 | 720 |
| 1600 mm | 387 | 438 | 443 | 477 | 493 | 573 | 664 | 822 |
| 1800 mm | 436 | 493 | 499 | 536 | 554 | 644 | 747 | 925 |
| 2000 mm | 484 | 548 | 554 | 596 | 616 | 716 | 830 | 1028 |
| 2200 mm | 532 | 603 | 609 | 656 | 678 | 788 | 913 | 1131 |
| 2400 mm | 581 | 658 | 665 | 715 | 739 | 859 | 996 | 1234 |
| 2600 mm | 629 | 712 | 720 | 775 | 801 | 931 | 1079 | 1336 |
| 2800 mm | 678 | 767 | 776 | 834 | 862 | 1002 | 1162 | 1439 |
| 3000 mm | 726 | 822 | 831 | 894 | 924 | 1074 | 1245 | 1542 |
| 3200 mm | 774 | 877 | 886 | 954 | 986 | 1146 | 1328 | 1645 |
| 3400 mm | 823 | 932 | 942 | 1013 | 1047 | 1217 | 1411 | 1748 |
| 3600 mm | 871 | 986 | 997 | 1073 | 1109 | 1289 | 1494 | 1850 |
| 3800 mm | 920 | 1041 | 1053 | 1132 | 1170 | 1360 | 1577 | 1953 |
| 4000 mm | 968 | 1096 | 1108 | 1192 | 1232 | 1432 | 1660 | 2056 |
| 4200 mm | 1016 | 1151 | 1163 | 1252 | 1294 | 1504 | 1743 | 2159 |
| 4400 mm | 1065 | 1206 | 1219 | 1311 | 1355 | 1575 | 1826 | 2262 |
| 4600 mm | 1113 | 1260 | 1274 | 1371 | 1417 | 1647 | 1909 | 2364 |
| 4800 mm | 1162 | 1315 | 1330 | 1430 | 1478 | 1718 | 1992 | 2467 |
| 5000 mm | 1210 | 1370 | 1385 | 1490 | 1540 | 1790 | 2075 | 2570 |
| 5200 mm | 1258 | 1425 | 1440 | 1550 | 1602 | 1862 | 2158 | 2673 |
| 5400 mm | 1307 | 1480 | 1496 | 1609 | 1663 | 1933 | 2241 | 2776 |
| 5600 mm | 1355 | 1534 | 1551 | 1669 | 1725 | 2005 | 2324 | 2878 |
| 5800 mm | 1404 | 1589 | 1607 | 1728 | 1786 | 2076 | 2407 | 2981 |
| 6000 mm | 1452 | 1644 | 1662 | 1788 | 1848 | 2148 | 2490 | 3084 |

The Finned Tubes have undergone a performance test to DS/ISO 3149 in a closed test room at the Danish Technological Institute, Copenhagen.

Thermal capacity in watts/metre for type K

at other temperature sets

Room temperature 20°C

| Inlet temperature °C | Type | Outlet temperature °C | | | | | | | | | | |
|----------------------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30°C | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| 90°C | K33-73-08 | 80 | 109 | 137 | 166 | 195 | 225 | 256 | 286 | 317 | 349 | 382 |
| | K33-83-10 | 100 | 133 | 165 | 197 | 229 | 260 | 292 | 324 | 356 | 387 | 424 |
| | K42-92-10 | 68 | 99 | 131 | 166 | 203 | 241 | 280 | 322 | 366 | 412 | 458 |
| | K48-98-10 | 56 | 87 | 121 | 159 | 200 | 246 | 294 | 347 | 402 | 463 | 523 |
| | K60-110-10 | 66 | 99 | 135 | 175 | 217 | 262 | 309 | 360 | 413 | 470 | 530 |
| | K60-123-12 | 83 | 123 | 165 | 210 | 258 | 310 | 361 | 418 | 476 | 535 | 603 |
| | K76-139-12 | 108 | 156 | 205 | 257 | 312 | 368 | 428 | 489 | 552 | 621 | 690 |
| | K101-164-12 | 167 | 229 | 292 | 353 | 418 | 482 | 548 | 617 | 684 | 752 | 825 |
| 85°C | K33-73-08 | 77 | 105 | 133 | 161 | 190 | 219 | 248 | 279 | 311 | 341 | |
| | K33-83-10 | 96 | 128 | 159 | 190 | 220 | 251 | 283 | 316 | 346 | 379 | |
| | K42-92-10 | 66 | 97 | 129 | 164 | 200 | 238 | 280 | 322 | 366 | 412 | |
| | K48-98-10 | 55 | 86 | 120 | 159 | 201 | 247 | 296 | 350 | 407 | 468 | |
| | K60-110-10 | 64 | 97 | 134 | 173 | 216 | 260 | 309 | 360 | 413 | 470 | |
| | K60-123-12 | 81 | 120 | 162 | 207 | 255 | 306 | 361 | 418 | 476 | 535 | |
| | K76-139-12 | 105 | 151 | 200 | 251 | 305 | 361 | 422 | 485 | 547 | 614 | |
| | K101-164-12 | 160 | 220 | 280 | 341 | 403 | 466 | 531 | 600 | 665 | 736 | |
| 80°C | K33-73-08 | 73 | 100 | 128 | 156 | 184 | 213 | 242 | 271 | 302 | | |
| | K33-83-10 | 91 | 122 | 153 | 182 | 212 | 243 | 274 | 305 | 336 | | |
| | K42-92-10 | 64 | 95 | 127 | 162 | 198 | 237 | 278 | 322 | 366 | | |
| | K48-98-10 | 54 | 85 | 120 | 159 | 201 | 249 | 298 | 353 | 411 | | |
| | K60-110-10 | 63 | 96 | 132 | 171 | 214 | 260 | 309 | 360 | 418 | | |
| | K60-123-12 | 79 | 118 | 160 | 205 | 254 | 304 | 358 | 414 | 476 | | |
| | K76-139-12 | 101 | 147 | 196 | 247 | 300 | 357 | 416 | 476 | 542 | | |
| | K101-164-12 | 152 | 210 | 269 | 328 | 389 | 450 | 515 | 580 | 646 | | |
| 75°C | K33-73-08 | 70 | 97 | 123 | 151 | 179 | 206 | 235 | 265 | | | |
| | K33-83-10 | 86 | 116 | 146 | 175 | 205 | 235 | 264 | 295 | | | |
| | K42-92-10 | 62 | 92 | 125 | 160 | 196 | 235 | 276 | 319 | | | |
| | K48-98-10 | 53 | 84 | 119 | 159 | 203 | 250 | 303 | 359 | | | |
| | K60-110-10 | 61 | 94 | 130 | 170 | 213 | 260 | 309 | 363 | | | |
| | K60-123-12 | 77 | 115 | 157 | 202 | 251 | 302 | 358 | 414 | | | |
| | K76-139-12 | 97 | 142 | 190 | 242 | 294 | 350 | 409 | 472 | | | |
| | K101-164-12 | 144 | 200 | 258 | 316 | 374 | 436 | 500 | 561 | | | |
| 70°C | K33-73-08 | 67 | 92 | 118 | 145 | 173 | 201 | 229 | | | | |
| | K33-83-10 | 82 | 111 | 139 | 168 | 196 | 226 | 255 | | | | |
| | K42-92-10 | 60 | 90 | 123 | 158 | 194 | 234 | 276 | | | | |
| | K48-98-10 | 52 | 83 | 119 | 159 | 205 | 253 | 307 | | | | |
| | K60-110-10 | 60 | 92 | 129 | 169 | 212 | 260 | 311 | | | | |
| | K60-123-12 | 74 | 113 | 155 | 200 | 248 | 302 | 356 | | | | |
| | K76-139-12 | 94 | 138 | 186 | 235 | 290 | 345 | 403 | | | | |
| | K101-164-12 | 136 | 190 | 246 | 302 | 360 | 420 | 482 | | | | |
| 65°C | K33-73-08 | 63 | 88 | 114 | 140 | 166 | 194 | | | | | |
| | K33-83-10 | 77 | 105 | 132 | 160 | 188 | 216 | | | | | |
| | K42-92-10 | 59 | 88 | 121 | 156 | 193 | 234 | | | | | |
| | K48-98-10 | 51 | 83 | 119 | 161 | 207 | 258 | | | | | |
| | K60-110-10 | 58 | 91 | 128 | 168 | 212 | 260 | | | | | |
| | K60-123-12 | 72 | 110 | 153 | 198 | 247 | 300 | | | | | |
| | K76-139-12 | 90 | 134 | 180 | 230 | 284 | 341 | | | | | |
| | K101-164-12 | 128 | 180 | 234 | 289 | 346 | 405 | | | | | |
| 60°C | K33-73-08 | 59 | 84 | 109 | 134 | 161 | | | | | | |
| | K33-83-10 | 72 | 99 | 125 | 153 | 179 | | | | | | |
| | K42-92-10 | 57 | 86 | 119 | 154 | 192 | | | | | | |
| | K48-98-10 | 50 | 83 | 120 | 163 | 210 | | | | | | |
| | K60-110-10 | 57 | 90 | 127 | 168 | 213 | | | | | | |
| | K60-123-12 | 70 | 108 | 150 | 196 | 247 | | | | | | |
| | K76-139-12 | 86 | 129 | 176 | 226 | 279 | | | | | | |
| | K101-164-12 | 120 | 170 | 222 | 275 | 331 | | | | | | |
| 55°C | K33-73-08 | 56 | 79 | 103 | 129 | | | | | | | |
| | K33-83-10 | 67 | 93 | 118 | 145 | | | | | | | |
| | K42-92-10 | 55 | 85 | 117 | 153 | | | | | | | |
| | K48-98-10 | 50 | 83 | 121 | 165 | | | | | | | |
| | K60-110-10 | 55 | 88 | 126 | 168 | | | | | | | |
| | K60-123-12 | 68 | 106 | 148 | 196 | | | | | | | |
| | K76-139-12 | 82 | 125 | 171 | 220 | | | | | | | |
| | K101-164-12 | 112 | 160 | 210 | 262 | | | | | | | |
| 50°C | K33-73-08 | 52 | 75 | 98 | | | | | | | | |
| | K33-83-10 | 62 | 86 | 111 | | | | | | | | |
| | K42-92-10 | 53 | 83 | 116 | | | | | | | | |
| | K48-98-10 | 49 | 83 | 123 | | | | | | | | |
| | K60-110-10 | 54 | 87 | 126 | | | | | | | | |
| | K60-123-12 | 66 | 104 | 147 | | | | | | | | |
| | K76-139-12 | 78 | 120 | 166 | | | | | | | | |
| | K101-164-12 | 103 | 149 | 198 | | | | | | | | |
| 45°C | K33-73-08 | 48 | 70 | | | | | | | | | |
| | K33-83-10 | 57 | 80 | | | | | | | | | |
| | K42-92-10 | 52 | 81 | | | | | | | | | |
| | K48-98-10 | 49 | 84 | | | | | | | | | |
| | K60-110-10 | 53 | 87 | | | | | | | | | |
| | K60-123-12 | 64 | 102 | | | | | | | | | |
| | K76-139-12 | 74 | 115 | | | | | | | | | |
| | K101-164-12 | 94 | 138 | | | | | | | | | |
| 40°C | K33-73-08 | 44 | | | | | | | | | | |
| | K33-83-10 | 51 | | | | | | | | | | |
| | K42-92-10 | 50 | | | | | | | | | | |
| | K48-98-10 | 50 | | | | | | | | | | |
| | K60-110-10 | 52 | | | | | | | | | | |
| | K60-123-12 | 62 | | | | | | | | | | |
| | K76-139-12 | 70 | | | | | | | | | | |
| | K101-164-12 | 85 | | | | | | | | | | |

| Exponent | N1 | N2 |
|-------------|------|------|
| K33-73-08 | 1,27 | 2,11 |
| K33-83-10 | 1,28 | 1,94 |
| K42-92-10 | 1,22 | 2,58 |
| K48-98-10 | 1,23 | 3,02 |
| K60-110-10 | 1,24 | 2,81 |
| K60-123-12 | 1,24 | 2,67 |
| K76-139-12 | 1,28 | 2,49 |
| K101-164-12 | 1,35 | 2,15 |

N1 = constant water flow and variable inlet temperature
N2 = constant inlet temperature and variable water flow

| Inlet temperature °C | Type | Outlet temperature °C | | | | | | | | | | |
|----------------------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30°C | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| 90°C | K33-73-08 | 47 | 76 | 104 | 132 | 161 | 189 | 219 | 249 | 279 | 310 | 342 |
| | K33-83-10 | 61 | 95 | 127 | 158 | 189 | 220 | 251 | 282 | 314 | 346 | 378 |
| | K42-92-10 | 36 | 65 | 96 | 129 | 163 | 200 | 238 | 278 | 321 | 365 | 411 |
| | K48-98-10 | 27 | 54 | 85 | 120 | 158 | 201 | 246 | 296 | 349 | 406 | 467 |
| | K60-110-10 | 36 | 69 | 105 | 144 | 187 | 233 | 282 | 334 | 389 | 448 | 510 |
| | K60-123-12 | 44 | 80 | 120 | 162 | 207 | 255 | 306 | 359 | 416 | 475 | 537 |
| | K76-139-12 | 59 | 104 | 151 | 200 | 251 | 305 | 362 | 421 | 482 | 546 | 612 |
| | K101-164-12 | 98 | 159 | 219 | 280 | 341 | 403 | 467 | 532 | 598 | 666 | 735 |
| 85°C | K33-73-08 | 45 | 73 | 100 | 128 | 155 | 184 | 213 | 242 | 272 | 303 | |
| | K33-83-10 | 58 | 91 | 121 | 152 | 182 | 212 | 243 | 273 | 304 | 336 | |
| | K42-92-10 | 35 | 64 | 94 | 126 | 161 | 197 | 236 | 277 | 319 | 364 | |
| | K48-98-10 | 27 | 53 | 84 | 119 | 158 | 201 | 248 | 298 | 353 | 411 | |
| | K60-110-10 | 35 | 67 | 103 | 142 | 185 | 231 | 281 | 334 | 390 | 450 | |
| | K60-123-12 | 42 | 78 | 117 | 159 | 204 | 252 | 303 | 358 | 415 | 475 | |
| | K76-139-12 | 56 | 100 | 146 | 195 | 246 | 300 | 356 | 415 | 477 | 541 | |
| | K101-164-12 | 92 | 152 | 210 | 268 | 328 | 389 | 452 | 516 | 581 | 648 | |
| 80°C | K33-73-08 | 42 | 69 | 96 | 123 | 150 | 178 | 207 | 236 | 266 | | |
| | K33-83-10 | 54 | 86 | 116 | 145 | 175 | 204 | 234 | 264 | 295 | | |
| | K42-92-10 | 34 | 62 | 92 | 124 | 159 | 195 | 234 | 275 | 318 | | |
| | K48-98-10 | 26 | 52 | 83 | 119 | 158 | 202 | 250 | 302 | 357 | | |
| | K60-110-10 | 34 | 66 | 101 | 141 | 184 | 230 | 281 | 335 | 392 | | |
| | K60-123-12 | 40 | 76 | 114 | 156 | 202 | 250 | 302 | 356 | 414 | | |
| | K76-139-12 | 54 | 97 | 142 | 190 | 241 | 294 | 350 | 409 | 471 | | |
| | K101-164-12 | 87 | 144 | 200 | 257 | 316 | 375 | 437 | 499 | 564 | | |
| 75°C | K33-73-08 | 40 | 66 | 92 | 118 | 145 | 172 | 200 | 229 | | | |
| | K33-83-10 | 51 | 81 | 110 | 139 | 167 | 196 | 225 | 255 | | | |
| | K42-92-10 | 32 | 60 | 90 | 122 | 157 | 194 | 233 | 274 | | | |
| | K48-98-10 | 25 | 52 | 83 | 118 | 159 | 203 | 252 | 306 | | | |
| | K60-110-10 | 33 | 64 | 100 | 139 | 182 | 230 | 281 | 336 | | | |
| | K60-123-12 | 39 | 74 | 112 | 154 | 199 | 248 | 300 | 356 | | | |
| | K76-139-12 | 51 | 93 | 138 | 185 | 235 | 289 | 345 | 404 | | | |
| | K101-164-12 | 81 | 136 | 190 | 246 | 303 | 361 | 421 | 483 | | | |
| 70°C | K33-73-08 | 37 | 63 | 88 | 113 | 140 | 167 | 194 | | | | |
| | K33-83-10 | 47 | 76 | 104 | 132 | 160 | 188 | 216 | | | | |
| | K42-92-10 | 31 | 58 | 88 | 120 | 155 | 192 | 232 | | | | |
| | K48-98-10 | 24 | 51 | 82 | 118 | 160 | 205 | 256 | | | | |
| | K60-110-10 | 31 | 62 | 98 | 138 | 182 | 230 | 282 | | | | |
| | K60-123-12 | 37 | 71 | 110 | 151 | 197 | 246 | 299 | | | | |
| | K76-139-12 | 48 | 89 | 133 | 180 | 230 | 283 | 340 | | | | |
| | K101-164-12 | 75 | 128 | 180 | 234 | 290 | 347 | 405 | | | | |
| 65°C | K33-73-08 | 35 | 59 | 83 | 108 | 134 | 161 | | | | | |

**Thermal capacity in watts/metre for type K
at other temperature sets
Room temperature 28°C**

| Inlet temperature °C | | Type | Outlet temperature °C | | | | | | | | | | |
|----------------------|-------------|------|-----------------------|------|------|------|------|------|------|------|------|------|------|
| | | | 30°C | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| 90°C | K33-73-08 | | 26 | 57 | 85 | 113 | 141 | 169 | 198 | 227 | 257 | 287 | 318 |
| | K33-83-10 | | 36 | 73 | 105 | 136 | 166 | 197 | 228 | 258 | 290 | 321 | 353 |
| | K42-92-10 | | 18 | 47 | 76 | 108 | 141 | 176 | 214 | 253 | 294 | 337 | 382 |
| | K48-98-10 | | 12 | 37 | 66 | 98 | 135 | 175 | 219 | 267 | 319 | 374 | 433 |
| | K60-110-10 | | 17 | 48 | 82 | 119 | 160 | 204 | 251 | 302 | 356 | 413 | 474 |
| | K60-123-12 | | 21 | 57 | 94 | 134 | 178 | 224 | 273 | 325 | 381 | 439 | 499 |
| | K76-139-12 | | 30 | 75 | 120 | 167 | 217 | 269 | 324 | 382 | 442 | 504 | 569 |
| | K101-164-12 | | 54 | 119 | 178 | 237 | 297 | 358 | 420 | 483 | 548 | 615 | 682 |
| 85°C | K33-73-08 | | 25 | 54 | 82 | 109 | 136 | 164 | 192 | 221 | 250 | 280 | |
| | K33-83-10 | | 33 | 69 | 100 | 130 | 160 | 189 | 219 | 250 | 280 | 311 | |
| | K42-92-10 | | 17 | 45 | 74 | 105 | 139 | 174 | 211 | 251 | 293 | 336 | |
| | K48-98-10 | | 12 | 36 | 65 | 97 | 134 | 175 | 220 | 269 | 322 | 379 | |
| | K60-110-10 | | 16 | 47 | 80 | 117 | 158 | 202 | 250 | 302 | 357 | 415 | |
| | K60-123-12 | | 20 | 55 | 92 | 132 | 175 | 221 | 271 | 324 | 379 | 438 | |
| | K76-139-12 | | 28 | 72 | 116 | 163 | 212 | 264 | 319 | 376 | 436 | 499 | |
| | K101-164-12 | | 50 | 112 | 170 | 227 | 285 | 345 | 405 | 468 | 532 | 597 | |
| 80°C | K33-73-08 | | 23 | 52 | 78 | 104 | 131 | 158 | 186 | 214 | 244 | | |
| | K33-83-10 | | 31 | 65 | 95 | 124 | 153 | 182 | 211 | 241 | 271 | | |
| | K42-92-10 | | 16 | 44 | 72 | 103 | 136 | 172 | 210 | 250 | 292 | | |
| | K48-98-10 | | 11 | 35 | 64 | 97 | 134 | 176 | 222 | 272 | 326 | | |
| | K60-110-10 | | 16 | 45 | 78 | 116 | 156 | 201 | 250 | 302 | 358 | | |
| | K60-123-12 | | 19 | 53 | 90 | 129 | 173 | 219 | 269 | 322 | 379 | | |
| | K76-139-12 | | 27 | 69 | 112 | 158 | 207 | 258 | 313 | 370 | 431 | | |
| | K101-164-12 | | 47 | 106 | 161 | 217 | 273 | 331 | 391 | 452 | 515 | | |
| 75°C | K33-73-08 | | 21 | 49 | 74 | 100 | 126 | 153 | 180 | 208 | | | |
| | K33-83-10 | | 29 | 61 | 90 | 118 | 146 | 174 | 203 | 232 | | | |
| | K42-92-10 | | 15 | 42 | 70 | 101 | 134 | 170 | 208 | 248 | | | |
| | K48-98-10 | | 11 | 34 | 63 | 96 | 134 | 177 | 224 | 276 | | | |
| | K60-110-10 | | 15 | 44 | 77 | 114 | 155 | 201 | 250 | 303 | | | |
| | K60-123-12 | | 18 | 51 | 87 | 127 | 170 | 217 | 268 | 322 | | | |
| | K76-139-12 | | 25 | 66 | 108 | 153 | 202 | 253 | 308 | 365 | | | |
| | K101-164-12 | | 43 | 99 | 152 | 206 | 261 | 318 | 376 | 436 | | | |
| 70°C | K33-73-08 | | 20 | 46 | 70 | 95 | 121 | 147 | 174 | | | | |
| | K33-83-10 | | 26 | 57 | 84 | 111 | 139 | 166 | 194 | | | | |
| | K42-92-10 | | 15 | 40 | 68 | 99 | 132 | 168 | 207 | | | | |
| | K48-98-10 | | 10 | 34 | 62 | 96 | 135 | 178 | 227 | | | | |
| | K60-110-10 | | 14 | 42 | 75 | 112 | 154 | 200 | 251 | | | | |
| | K60-123-12 | | 17 | 49 | 85 | 124 | 168 | 215 | 267 | | | | |
| | K76-139-12 | | 23 | 63 | 104 | 149 | 197 | 248 | 303 | | | | |
| | K101-164-12 | | 39 | 93 | 143 | 195 | 249 | 304 | 361 | | | | |
| 65°C | K33-73-08 | | 18 | 43 | 66 | 91 | 115 | 141 | | | | | |
| | K33-83-10 | | 24 | 53 | 79 | 105 | 131 | 158 | | | | | |
| | K42-92-10 | | 14 | 39 | 66 | 97 | 131 | 167 | | | | | |
| | K48-98-10 | | 10 | 33 | 62 | 96 | 136 | 181 | | | | | |
| | K60-110-10 | | 13 | 41 | 74 | 111 | 154 | 201 | | | | | |
| | K60-123-12 | | 16 | 47 | 82 | 122 | 166 | 214 | | | | | |
| | K76-139-12 | | 22 | 59 | 100 | 144 | 192 | 243 | | | | | |
| | K101-164-12 | | 36 | 86 | 134 | 184 | 236 | 290 | | | | | |
| 60°C | K33-73-08 | | 16 | 40 | 62 | 86 | 110 | | | | | | |
| | K33-83-10 | | 21 | 48 | 73 | 98 | 124 | | | | | | |
| | K42-92-10 | | 13 | 37 | 64 | 95 | 129 | | | | | | |
| | K48-98-10 | | 9 | 32 | 61 | 96 | 138 | | | | | | |
| | K60-110-10 | | 12 | 39 | 72 | 110 | 154 | | | | | | |
| | K60-123-12 | | 15 | 45 | 80 | 120 | 165 | | | | | | |
| | K76-139-12 | | 20 | 56 | 96 | 139 | 187 | | | | | | |
| | K101-164-12 | | 32 | 79 | 125 | 173 | 223 | | | | | | |
| 55°C | K33-73-08 | | 15 | 36 | 58 | 81 | | | | | | | |
| | K33-83-10 | | 19 | 44 | 68 | 92 | | | | | | | |
| | K42-92-10 | | 12 | 35 | 63 | 94 | | | | | | | |
| | K48-98-10 | | 8 | 31 | 61 | 98 | | | | | | | |
| | K60-110-10 | | 11 | 38 | 71 | 110 | | | | | | | |
| | K60-123-12 | | 14 | 43 | 78 | 118 | | | | | | | |
| | K76-139-12 | | 18 | 53 | 91 | 135 | | | | | | | |
| | K101-164-12 | | 28 | 72 | 116 | 162 | | | | | | | |
| 50°C | K33-73-08 | | 13 | 33 | 54 | | | | | | | | |
| | K33-83-10 | | 16 | 39 | 62 | | | | | | | | |
| | K42-92-10 | | 10 | 34 | 61 | | | | | | | | |
| | K48-98-10 | | 8 | 31 | 61 | | | | | | | | |
| | K60-110-10 | | 10 | 37 | 70 | | | | | | | | |
| | K60-123-12 | | 12 | 41 | 76 | | | | | | | | |
| | K76-139-12 | | 16 | 49 | 87 | | | | | | | | |
| | K101-164-12 | | 24 | 64 | 106 | | | | | | | | |
| 45°C | K33-73-08 | | 11 | 30 | | | | | | | | | |
| | K33-83-10 | | 14 | 35 | | | | | | | | | |
| | K42-92-10 | | 9 | 32 | | | | | | | | | |
| | K48-98-10 | | 7 | 30 | | | | | | | | | |
| | K60-110-10 | | 9 | 35 | | | | | | | | | |
| | K60-123-12 | | 11 | 39 | | | | | | | | | |
| | K76-139-12 | | 14 | 46 | | | | | | | | | |
| | K101-164-12 | | 21 | 57 | | | | | | | | | |
| 40°C | K33-73-08 | | 9 | | | | | | | | | | |
| | K33-83-10 | | 11 | | | | | | | | | | |
| | K42-92-10 | | 8 | | | | | | | | | | |
| | K48-98-10 | | 7 | | | | | | | | | | |
| | K60-110-10 | | 8 | | | | | | | | | | |
| | K60-123-12 | | 10 | | | | | | | | | | |
| | K76-139-12 | | 12 | | | | | | | | | | |
| | K101-164-12 | | 16 | | | | | | | | | | |

| Inlet temperature °C | Type | Outlet temperature °C | | | | | | | | | | |
|----------------------|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30°C | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C |
| 90°C | K33-73-08 | 2 | 45 | 73 | 100 | 128 | 155 | 184 | 213 | 242 | 272 | 303 |
| | K33-83-10 | 4 | 58 | 91 | 121 | 152 | 182 | 212 | 243 | 273 | 304 | 336 |
| | K42-92-10 | 1 | 35 | 64 | 94 | 126 | 161 | 197 | 236 | 277 | 319 | 364 |
| | K48-98-10 | 0 | 27 | 53 | 84 | 119 | 158 | 201 | 248 | 298 | 353 | 411 |
| | K60-110-10 | 1 | 35 | 67 | 103 | 142 | 185 | 231 | 281 | 334 | 390 | 450 |
| | K60-123-12 | 1 | 42 | 78 | 117 | 159 | 204 | 252 | 303 | 358 | 415 | 475 |
| | K76-139-12 | 2 | 56 | 101 | 146 | 195 | 246 | 300 | 356 | 415 | 477 | 541 |
| | K101-164-12 | 5 | 92 | 152 | 210 | 268 | 328 | 389 | 452 | 516 | 581 | 648 |
| 85°C | K33-73-08 | 2 | 42 | 69 | 96 | 123 | 150 | 178 | 207 | 236 | 266 | |
| | K33-83-10 | 3 | 54 | 86 | 116 | 145 | 175 | 204 | 234 | 264 | 295 | |
| | K42-92-10 | 1 | 34 | 62 | 92 | 124 | 159 | 195 | 234 | 275 | 318 | |
| | K48-98-10 | 0 | 26 | 52 | 83 | 119 | 158 | 202 | 250 | 302 | 358 | |
| | K60-110-10 | 1 | 34 | 66 | 101 | 141 | 184 | 230 | 281 | 335 | 392 | |
| | K60-123-12 | 1 | 40 | 76 | 114 | 156 | 202 | 250 | 302 | 356 | 414 | |
| | K76-139-12 | 2 | 54 | 97 | 142 | 190 | 241 | 294 | 350 | 409 | 471 | |
| | K101-164-12 | 4 | 87 | 144 | 200 | 257 | 316 | 375 | 437 | 499 | 564 | |
| 80°C | K33-73-08 | 2 | 40 | 66 | 92 | 118 | 145 | 172 | 200 | 229 | | |
| | K33-83-10 | 3 | 51 | 81 | 110 | 139 | 167 | 196 | 225 | 255 | | |
| | K42-92-10 | 1 | 32 | 60 | 90 | 122 | 157 | 194 | 233 | 274 | | |
| | K48-98-10 | 0 | 25 | 52 | 83 | 118 | 159 | 203 | 252 | 306 | | |
| | K60-110-10 | 1 | 33 | 64 | 100 | 139 | 182 | 230 | 281 | 336 | | |
| | K60-123-12 | 1 | 39 | 74 | 112 | 154 | 199 | 248 | 300 | 356 | | |
| | K76-139-12 | 1 | 51 | 93 | 138 | 185 | 235 | 289 | 345 | 404 | | |
| | K101-164-12 | 4 | 81 | 136 | 190 | 246 | 303 | 361 | 421 | 483 | | |
| 75°C | K33-73-08 | 2 | 37 | 63 | 88 | 113 | 140 | 167 | 194 | | | |
| | K33-83-10 | 3 | 47 | 76 | 104 | 132 | 160 | 188 | 216 | | | |
| | K42-92-10 | 1 | 31 | 58 | 88 | 120 | 155 | 192 | 232 | | | |
| | K48-98-10 | 0 | 24 | 51 | 82 | 118 | 160 | 205 | 256 | | | |
| | K60-110-10 | 1 | 31 | 62 | 98 | 138 | 182 | 230 | 282 | | | |
| | K60-123-12 | 1 | 37 | 71 | 110 | 151 | 197 | 246 | 299 | | | |
| | K76-139-12 | 1 | 48 | 89 | 133 | 180 | 230 | 283 | 340 | | | |
| | K101-164-12 | 3 | 75 | 128 | 180 | 234 | 290 | 347 | 405 | | | |
| 70°C | K33-73-08 | 1 | 35 | 59 | 83 | 108 | 134 | 161 | | | | |
| | K33-83-10 | 2 | 44 | 72 | 98 | 125 | 152 | 179 | | | | |
| | K42-92-10 | 1 | 29 | 56 | 86 | 118 | 153 | 191 | | | | |
| | K48-98-10 | 0 | 23 | 50 | 82 | 119 | 161 | 208 | | | | |
| | K60-110-10 | 0 | 30 | 61 | 96 | 137 | 181 | 230 | | | | |
| | K60-123-12 | 1 | 35 | 69 | 107 | 149 | 195 | 245 | | | | |
| | K76-139-12 | 1 | 46 | 86 | 129 | 175 | 225 | 278 | | | | |
| | K101-164-12 | 3 | 70 | 120 | 170 | 222 | 276 | 332 | | | | |
| 65°C | K33-73-08 | 1 | 32 | 55 | 79 | 103 | 129 | | | | | |
| | K33-83-10 | 2 | 40 | 67 | 92 | 118 | 144 | | | | | |
| | | | | | | | | | | | | |

Forms of supply for type K

Diagram 1: Form of supply LSV

Straight lengths with plain ends.
Standard length of unfinned ends
75 mm, other lengths available
on request, as well as unfinned
intermediate sections.

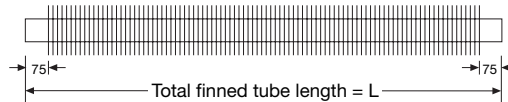


Diagram 2: Form of supply LKK

Straight lengths with concentrically
welded sockets.

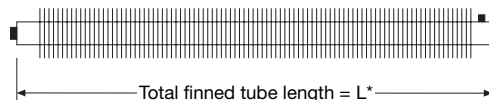


Diagram 3: Form of supply LEK

Straight lengths with one excentrically
and one concentrically welded socket.

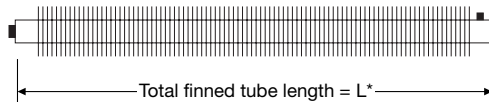


Diagram 4: Form of supply LRS

Straight lengths with sockets welded
to the tube side.

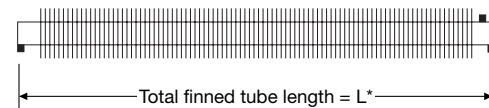


Diagram 5: Form of supply LIF

Straight lengths with sockets welded
to the same end and distributing tube
inside. Only applicable for types
K60·110·10, K60·123·12, K76·139·12,
K101·164·12.

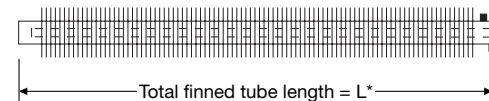


Diagram 6A: Form of supply LRO

Straight lengths with welded plates
and sockets.

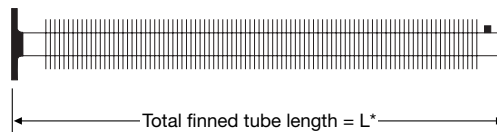


Diagram 6B: Form of supply LFL

Straight lengths with welded DIN flanges
and sockets.

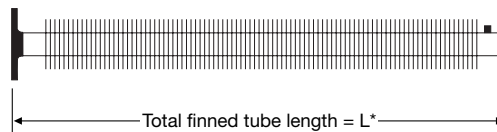


Diagram 7: Form of supply LBH

Straight lengths with welded 90° tube
bends and height tubes with bottoms.
Positioning of the sockets to be indicated
on the order.

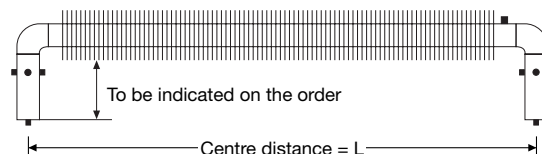


Diagram 8A: Form of supply LBR

Straight lengths with welded 90° tube
bends and height tubes with plates and
sockets.

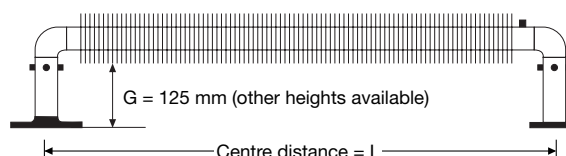
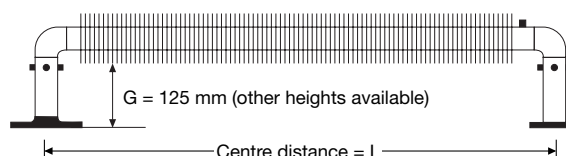
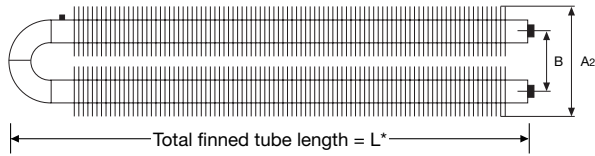


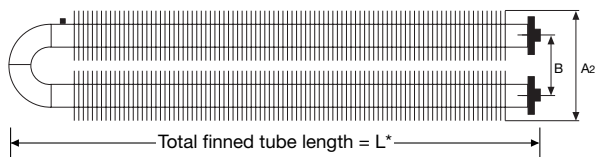
Diagram 8B: Form of supply LBF

Like diagram 8A, however with DIN
flanges.

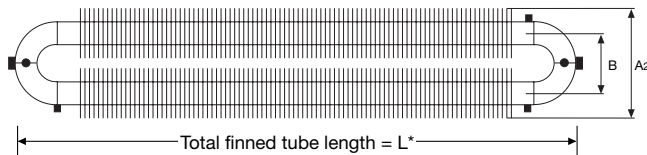



Diagram 9: Form of supply 2SE

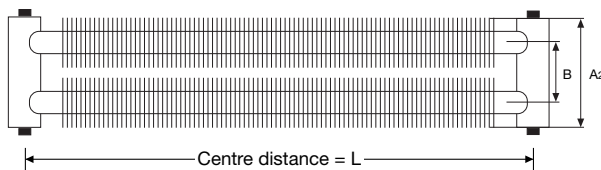
Finned tube element "Hairpin", two-tube execution, in series, with sockets.


Diagram 10: Form of supply 2SR

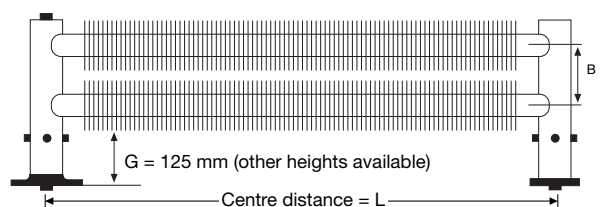
Finned tube element "Hairpin", two-tube execution, in series, with welded plates and sockets.


Diagram 11: Form of supply 2GO

Finned tube element, in two-tube execution, with two welded 180° tube bends. Positioning of the sockets to be indicated on the order.


Diagram 12: Form of supply 2PE

Finned tube element, two-tube execution, in parallel, with closed distributing tube and sockets.


Diagram 13A: Form of supply 2HE

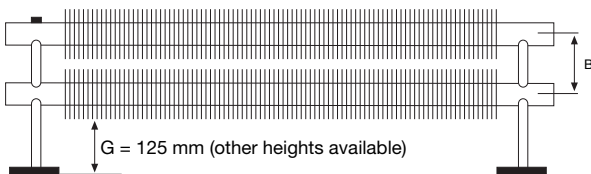
Finned tube element, two-tube execution, in parallel, with closed height/distributing tube and sockets.

Diagram 13B: Form of supply 2HR

Like 2HE, however with plates.

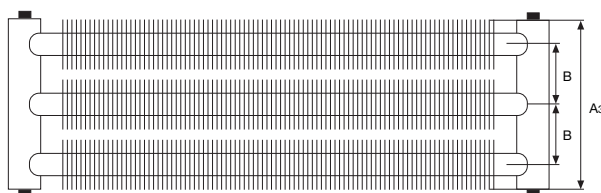
Diagram 13C: Form of supply 2HF

Like 2HE, however with DIN flanges.


Diagram 14: Form of supply 2LR

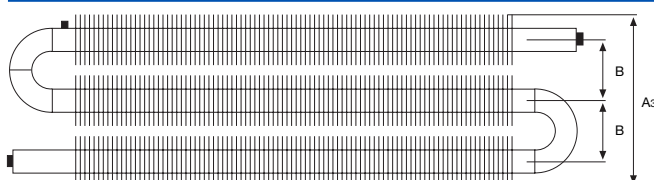
Finned tube element, two-tube execution, in parallel, with intermediate and support tube, with plate and socket.

L = centre distance


Diagram 15: Form of supply 3PE

Finned tube element, three-tube execution, in parallel, with distributing tube and sockets. (Also available as 4PE, 5PE etc.).

L = centre distance


Diagram 16: Form of supply 3SE

Finned tube element, three-tube execution, in series, with sockets. (Also available as 4PE, 5PE etc.).

Total finned tube length L as Fig. 9.

Bent Finned Tubes type B

Diagram 17: Bent Finned Tubes

Available in the following two dimensions:

B32-82-10

Dimensions and performance see K33-83-10

B42-92-10

Dimensions and performance see K42-92-10

Form of supply BSV

Bent Finned Tubes with plain ends.

Form of supply BKK

Bent Finned Tubes with concentrically welded sockets.

Form of supply BRS

Bent Finned Tubes with sockets welded to the tube side.

Form of supply BBH

Bent Finned Tubes with welded 90° tube bends and height tubes with bottoms.

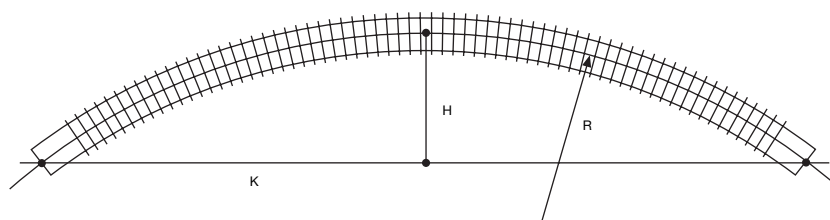
Positioning to be indicated on the order.

Form of supply BBR

As BBH, however with plates and sockets.

Form of supply BBF

As BBH, however with DIN flanges and sockets.



$$\text{Radius calculation: } R = \frac{K^2}{8 \cdot H} + \frac{H}{2}$$

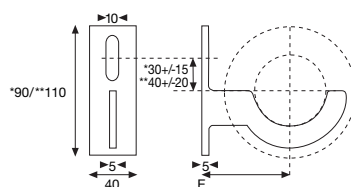
$$R_{\min} \text{ and } K_{\min} = 1000 \text{ mm}$$

Brackets

Brackets available on request.
Please state type and quantity on order.

Diagram 18: Wall bracket

Standard execution.

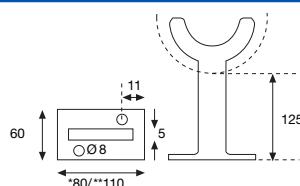


* K33-73-08 to K48-98-10

** K60-110-10 to K101-164-12

Diagram 19: Floor bracket

Standard execution.

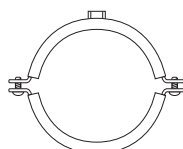


* K33-73-08 to K48-98-10

** K60-110-10 to K101-164-12

Diagram 20: Pipe clip

Double-ended galvanised tube clip with welded nut.



Special brackets according to customer drawings available.

For mounting under the ceiling wire or steel strip can also be used.

In case of installation in front of glass façades the steel column is often used as support for the Finned Tubes, and holes for the Finned Tubes or connection tubes can then be drilled into the steel column.

The Finned Tubes can be supplied with unfinned intermediate sections on request.

Loose fin spirals are available.

| Execution | No. of brackets for Finned Tube length | | |
|---------------|--|-----------|-----------|
| | 0-2.5 m | 2.6-4.0 m | 4.1-6.0 m |
| Single-tube | 2 pieces | 3 pieces | 4 pieces |
| 2- and 3-tube | 3 pieces | 5 pieces | 7 pieces |

Linear expansion

$$\Delta L = L \cdot 0.000012 \cdot (t_m - 10^\circ\text{C})$$

L = Finned tube length in mm

t_m = Mean water temperature

Positioning and Dimensions of the sockets for types K and B

| Finned Tube types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------|-----------|-----|-----|----|-----------|-----|-----|----|-----------|-------|----|-----|------------|-----|----|-------|------------|----|----|-----|-------------|-----|----|-------|----|-----|-----|-----|----|----|----|-----|-----|-----|----|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | K33-73-08 | | | | K42-92-10 | | | | K48-98-10 | | | | K60-110-10 | | | | K76-139-12 | | | | K101-164-12 | | | | | | | | | | | | | | |
| | | K33-83-10 | | | | B42-92-10 | | | | | | | | K60-123-12 | | | | | | | | | | | | | | | | | | | | | | |
| | | B32-82-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Socket dimension | inches | 3⁄8 | 1⁄2 | 3⁄4 | 1 | 3⁄8 | 1⁄2 | 3⁄4 | 1 | 1 1⁄4 | 1 1⁄2 | 2 | 3⁄8 | 1⁄2 | 3⁄4 | 1 | 1 1⁄4 | 1 1⁄2 | 2 | 3 | 3⁄8 | 1⁄2 | 3⁄4 | 1 | 1 1⁄2 | 2 | 3⁄8 | 1⁄2 | 3⁄4 | 1 | 2 | 3 | 3⁄8 | 1⁄2 | 3⁄4 | 1 |
| Nominal socket dimension | mm | 10 | 15 | 20 | 25 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 80 | 10 | 15 | 20 | 25 | 40 | 50 | 10 | 15 | 20 | 25 | 50 | 80 | 10 | 15 | 20 | 25 |

| Diagram and form of supply: | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diagram 1: Form of supply LSV | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagram 2: Form of supply LKK | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagram 3: Form of supply LEK | | | | | | | | | | | | | ● | ● | ● | ● | | | | ● | ● | ● | ● | ● | ● |
| Diagram 4: Form of supply LRS | ● | | | | ● | ● | | | | ● | ● | | | ● | ● | | | ● | ● | ○ | | ● | ● | ○ | |
| Diagram 5: Form of supply LIF | | | | | ● | | | | | ● | | | | ● | ● | | | ● | ● | ○ | | ● | ● | ○ | |
| Diagram 6: Form of supply LRO/LFL | ● | ● | | | ● | ● | ○ | | | ● | ● | ○ | | ● | ● | ○ | | ● | ● | ○ | | ● | ● | ○ | |
| Diagram 7: Form of supply LBH | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ● | ● | ○ | ● | ○ |
| Diagram 8: Form of supply LBR/LBF | ● | | | | ● | ● | | | | ● | ● | | | ● | ● | | | ● | ● | | | ● | ● | ○ | |
| Diagram 9: Form of supply 2SE | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagram 10: Form of supply 2SR | ● | ● | | | ● | ● | ○ | | | ● | ● | ○ | | ● | ● | ○ | | ● | ● | ○ | | ● | ● | ○ | |
| Diagram 11: Form of supply 2GO | ● | | | | ● | ● | | | | ● | ● | | | ● | ● | | | ● | ● | ○ | | ● | ● | ○ | |
| Diagram 12: Form of supply 2PE | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagram 13: F. of supply 2HE/2HR/2HF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagram 14: Form of supply 2LR | ● | | | | ● | | | | | ● | ● | | | ● | ● | | | ● | ● | ○ | | ● | ● | ○ | |
| Diagram 15: Form of supply 3PE | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagram 16: Form of supply 3SE | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Diagram 17: Form of supply BKK/ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| BRS/BBH/BBR/BBF | ● | | | | ● | ● | | | | | | | | | | | | | | | | | | | |

- Sockets welded concentrically to the tube ends or to the tube side.
- In case of Finned Tubes in straight lengths one socket is welded in the centre line and the other excentrically. In case of Finned Tube elements the upper socket is welded to the centre line and the lower one excentrically.

- Only Finned Tube and distributing tube ends can be welded using this socket.

- Available at extra price.

The total Finned Tube length includes the sockets. Sockets welded to plates or DIN flanges are flush with the locating surface.

Sockets welded to the tube side have the following dimensions:

| Thread dimension | inches | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 3 |
|--------------------------|--------|-----|-----|-----|----|-------|-------|----|----|
| Nominal thread dimension | mm | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 80 |

| Socket diameter | mm | 21 | 27 | 32 | 40 | 49 | 57 | 69 | 83 |
|----------------------|----|----|----|----|----|----|----|----|----|
| Socket length (+/-3) | mm | 10 | 15 | 20 | 20 | 20 | 25 | 30 | 30 |

Finned Tube element and connection dimensions:

| Finned Tube type | | K33-73-08 | K33-83-10 | K42-92-10 | K48-98-10 | K60-110-10 | K60-123-12 | K76-139-12 | K101-164-12 |
|---|----|--|-----------|-----------|-----------|------------|------------|------------|-------------|
| Centre line distance B (+/- 5) | mm | 80 | 90 | 100 | 120 | 150 | 150 | 190 | 270 |
| Width over Finned Tube and distr. tube length | | | | | | | | | |
| A ₂ (+/- 10) | mm | 155 | 175 | 195 | 220 | 260 | 275 | 330 | 435 |
| A ₃ (+/- 15) | mm | 235 | 265 | 295 | 340 | 410 | 425 | 520 | 700 |
| Finned Tube: | | | | | | | | | |
| Plate diameter LRO/LBR/2SR | mm | 96 | 96 | 96 | 96 | 135 | 135 | 155 | 180 |
| Flange diameter LFL/LBF | mm | 105 | 105 | 140 | 150 | 165 | 165 | 185 | (220) |
| Distributing tube: | | | | | | | | | |
| Tube diameter | mm | 48 | 48 | 60 | 76 | 108 | 108 | 114 | 139 |
| Plate diameter 2HR | mm | 100 | 100 | 135 | 155 | 180 | 180 | 210 | 250 |
| Flange diameter 2HF | mm | 150 | 150 | 165 | 185 | 220 | 220 | 220 | 250 |
| Intermediate and support tube: | | | | | | | | | |
| Tube diameter 2LR | mm | 21 | 21 | 27 | 27 | 27 | 27 | 33 | 33 |
| Plate diameter 2LR | mm | 80 | 80 | 90 | 100 | 135 | 135 | 155 | 180 |
| Distance E from wall to tube centre (+/- 5) | mm | 50 | 50 | 60 | 65 | 75 | 75 | 90 | 105 |
| Distance G from floor to lower finned tube edge | | 125 mm (+/-5) Other heights available. | | | | | | | |

Modification of construction dimensions reserved.

Meinertz Finned Tubes for other thermal applications

Product

Meinertz Finned Tubes are Danish quality products offering excellent mechanical and thermal properties. The Finned Tubes are manufactured by helically winding a strip directly and tightly onto the tube. Due to the corrugated lower fin area the surface area of the fins is increased.

Finned Tube types

- Type K Welded steel tubes
DIN 2458/1626.
- Type Z As type K, however with zinc coated steel fin.
- Type L Welded precision steel tubes
DIN 2394.
- Type D Heavy-weight steel tubes
DIN 2441.
- Type R Welded stainless steel tubes
material No. 1.4306/
AISI 304L.
- Type S Welded acid-resistant steel
tubes material No. 1.4435/
AISI 316L.
- Type C Seamless copper tubes
DIN 1787/ISO 274.

Type A Aluminium tubes
AlMgSi0,5 DIN 1725.

Type E Finned heating elements.

Type O Loose fin spirals,
without tube.

Tube codification

Example: L25-65-08

L = Tube and fin material

25 = Tube outside diameter (mm)

65 = Fin diameter (mm)

08 = Fin pitch (mm)

Forms of supply

Meinertz Finned Tubes are supplied in required lengths from 200 to 6,000 mm, depending on the tube diameter. The required length of the plain, unfinned ends must be indicated on the order.

Surface treatment

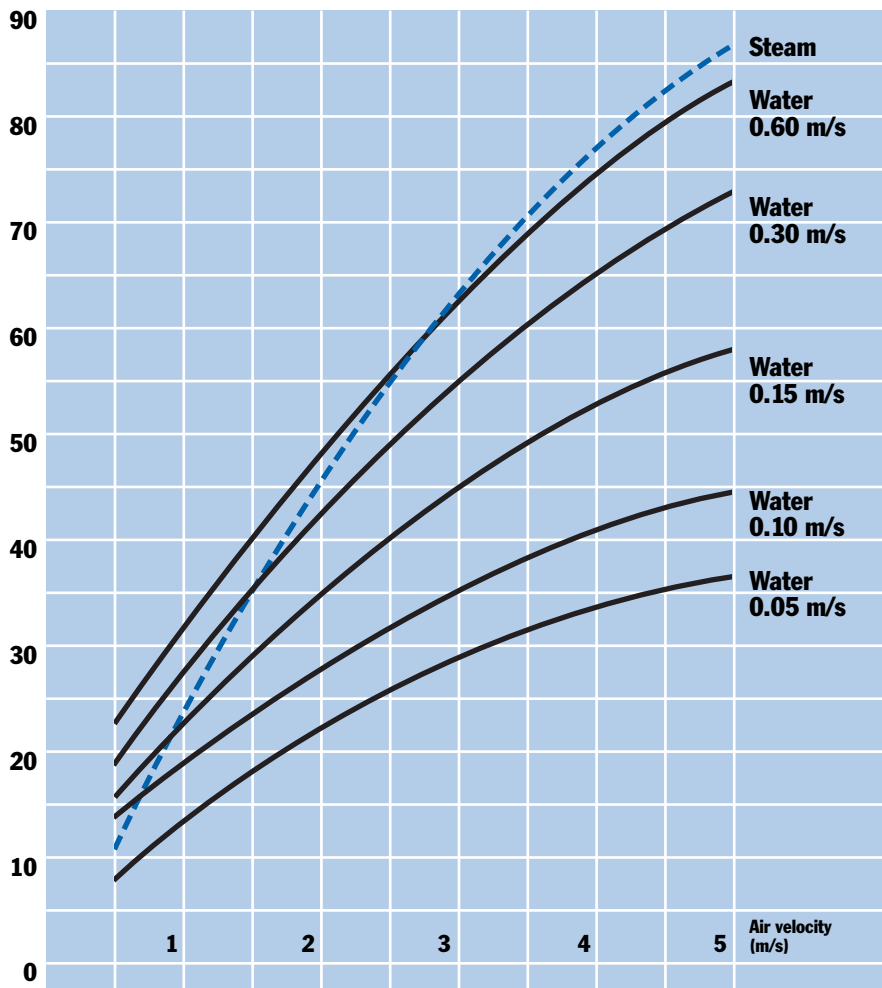
If not indicated otherwise, Meinertz Finned Tubes are supplied in an untreated condition. At an extra cost the Finned Tubes can be supplied with a paint finish in RAL colours (see also page 2).

Meinertz Finned Tubes can also be supplied in hot-dip galvanised condition, either on the outside only or on both the outside and inside.

Applications

- Air heaters and air coolers.
- Heat recovery and air-conditioning systems.
- Flue gas and industrial coolers.
- Oil preheaters and oil coolers.
- Secondary heat exchangers in collecting tanks.
- Brick drying and concrete hardening installations.
- Timber and grain drying installations.
- Baking ovens.
- Drying chambers for the foodstuff industry.
- Technical aggregates for the chemical and petrochemical industry.
- Intercoolers for air compressors.
- Solar collectors.
- Finned electric heating elements.
- Finned electric heating elements for subsequent bending.

Heat transfer coefficient k
(watts/m²K)



Graphs for a rough calculation of Finned Tube bundles for water and steam application. Meinertz Finned Tube types L and D.

The following equation is used to calculate the performance in watts:

$$Q = F \cdot K \cdot (t_{\text{water mean}} - t_{\text{air mean}})$$

Finned Tubes type L manufactured from welded precision steel tubes DIN 2394

| Standard programme L | | | | | | | | | |
|--------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | L16-40-06 | L19-51-08 | L22-54-08 | L22-62-10 | L25-65-08 | L28-68-08 | L32-72-08 | L38-88-10 |
| Tube size | mm | 16x1,5 | 19x1,5 | 22x1,5 | 22x1,5 | 25x1,5 | 28x1,5 | 32x1,5 | 38x1,5 |
| Fin diameter / Fin pitch | mm | 40/6 | 51/8 | 54/8 | 62/10 | 65/8 | 68/8 | 72/8 | 88/10 |
| Outside surface area | m ² /m | 0,45 | 0,55 | 0,60 | 0,66 | 0,87 | 0,93 | 1,00 | 1,21 |
| Weight | kg/m | 1,3 | 1,8 | 2,1 | 2,2 | 2,7 | 2,6 | 3,3 | 4,0 |
| VVS No. (in DK only) | | 337830 | 337831 | 337832 | 337833 | 337834 | 337835 | 337837 | 337839 |

| Total programme L | | | | | | |
|-------------------|--------------------|---------------------|---|------------|------------|--|
| Tube size mm | Fin diameter mm | Fin dimension mm | Type No. Fin pitch mm / Outside surface area m ² /m | | | |
| 12,7 x 1,5 | 28 | 8 x 0,75 | L12-28-04 | L12-28-05 | L12-28-06 | |
| | | | F04 / 0,32 | F05 / 0,26 | F06 / 0,22 | |
| 16 x 1,5 | 36 | 10 x 0,50 | L16-36-05 | L16-36-06 | L16-36-08 | |
| | | | F05 / 0,41 | F06 / 0,35 | F08 / 0,28 | |
| | 40 | 12 x 0,50 | L16-40-05 | L16-40-06 | L16-40-08 | |
| | | | F05 / 0,52 | F06 / 0,45 | F08 / 0,35 | |
| 19 x 1,5 | 39 | 10 x 0,50 | L19-39-05 | L19-39-06 | L19-39-08 | |
| | | | F05 / 0,46 | F06 / 0,39 | F08 / 0,31 | |
| | 43 | 12 x 0,50 | L19-43-05 | L19-43-06 | L19-43-08 | |
| | | | F05 / 0,58 | F06 / 0,49 | F08 / 0,38 | |
| | 51 | 16 x 0,75 | L19-51-06 | L19-51-08 | L19-51-10 | |
| | | | F06 / 0,72 | F08 / 0,55 | F10 / 0,45 | |
| 22 x 1,5 | 46 | 12 x 0,50 | L 22-46-05 | L 22-46-06 | L 22-46-08 | |
| | | | F05 / 0,63 | F06 / 0,54 | F08 / 0,42 | |
| | 54 | 16 x 0,75 | L 22-54-08 | L 22-54-10 | L 22-54-12 | |
| | | | F08 / 0,60 | F10 / 0,50 | F12 / 0,42 | |
| | 62 | 20 x 0,75 | L 22-62-08 | L 22-62-10 | L 22-62-12 | |
| | | | F08 / 0,81 | F10 / 0,66 | F12 / 0,57 | |
| 25 x 1,5 | 57 | 16 x 0,75 | L 25-57-06 | L 25-57-08 | L 25-57-10 | |
| | | | F06 / 0,84 | F08 / 0,65 | F10 / 0,54 | |
| | 65 | 20 x 0,75 | L 25-65-08 | L 25-65-10 | L 25-65-12 | |
| | | | F08 / 0,87 | F10 / 0,71 | F12 / 0,61 | |
| 28 x 1,5 | 60 | 16 x 0,75 | L 28-60-06 | L 28-60-08 | L 28-60-10 | |
| | | | F06 / 0,90 | F08 / 0,70 | F10 / 0,57 | |
| | 68 | 20 x 0,75 | L 28-68-08 | L 28-68-10 | L 28-68-12 | |
| | | | F08 / 0,93 | F10 / 0,76 | F12 / 0,65 | |
| 32 x 1,5 | 72 | 20 x 0,75 | L 32-72-08 | L 32-72-10 | L 32-72-12 | |
| | | | F08 / 1,00 | F10 / 0,82 | F12 / 0,70 | |
| | 82 | 25 x 0,75 | L 32-82-08 | L 32-82-10 | L 32-82-12 | |
| | | | F08 / 1,35 | F10 / 1,10 | F12 / 0,93 | |
| 38 x 1,5 | 78 | 20 x 0,75 | L 38-78-08 | L 38-78-10 | L 38-78-12 | |
| | | | F08 / 1,12 | F10 / 0,92 | F12 / 0,78 | |
| | 88 | 25 x 0,75 | L 38-88-08 | L 38-88-10 | L 38-88-12 | |
| | | | F08 / 1,50 | F10 / 1,21 | F12 / 1,03 | |



Standard

Finned Tubes type D manufactured from heavy-weight steel tubes DIN 2441

| Standard programme D | | | | | | | | | |
|--------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| | | D10-42-06 | D15-53-08 | D20-67-08 | D25-84-10 | D32-92-10 | D40-98-10 | D50-123-12 | D80-152-12 |
| Tube size | inches | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 3 |
| Tube size | mm | 17,5x2,9 | 21,8x3,25 | 27,3x3,25 | 34,2x4,05 | 42,9x4,05 | 48,8x4,05 | 60,8x4,50 | 89,5x4,85 |
| Fin diameter / Fin pitch | mm | 42/6 | 53/8 | 67/8 | 84/10 | 92/10 | 98/10 | 123/12,5 | 152/12,5 |
| Outside surface area | m ² /m | 0,47 | 0,60 | 0,91 | 1,14 | 1,31 | 1,42 | 1,84 | 2,41 |
| Weight | kg/m | 2,1 | 2,9 | 3,9 | 5,8 | 6,8 | 7,8 | 10,6 | 14,5 |
| VVS No. (in DK only) | | 337820 | 337822 | 337823 | 337824 | 337825 | 337826 | 337827 | 337829 |

| Total programme D | | | | | |
|-----------------------|--------------|---------------|---|-------------|-------------|
| Tube size | Fin diameter | Fin dimension | Type No. | | |
| Inches (mm) | mm | mm | Fin pitch mm / Outside surface area m ² /m | | |
| 3/8" 17,5 x 2,9 | 37 | 10 x 0,50 | D10-37-05 | D10-37-06 | D10-37-08 |
| | | | F05 / 0,44 | F06 / 0,37 | F08 / 0,29 |
| | 41 | 12 x 0,50 | D10-41-05 | D10-41-06 | D10-41-08 |
| | | | F05 / 0,48 | F06 / 0,47 | F08 / 0,36 |
| 1/2" 21,8 x 3,25 | 46 | 12 x 0,50 | D15-46-05 | D15-46-06 | D15-46-08 |
| | | | F05 / 0,63 | F06 / 0,54 | F08 / 0,42 |
| | 53 | 16 x 0,75 | D15-53-08 | D15-53-10 | D15-53-12 |
| | | | F08 / 0,60 | F10 / 0,49 | F12 / 0,42 |
| 3/4" 27,3 x 3,25 | 59 | 16 x 0,75 | D 20-59-06 | D 20-59-08 | D 20-59-10 |
| | | | F06 / 0,89 | F08 / 0,69 | F10 / 0,56 |
| | 67 | 20 x 0,75 | D 20-67-08 | D 20-67-10 | D 20-67-12 |
| | | | F08 / 0,91 | F10 / 0,75 | F12 / 0,64 |
| 1" 34,2 x 4,05 | 74 | 20 x 0,75 | D 25-74-08 | D 25-74-10 | D 25-74-12 |
| | | | F08 / 1,04 | F10 / 0,86 | F12 / 0,73 |
| | 84 | 25 x 0,75 | D 25-84-08 | D 25-84-10 | D 25-84-12 |
| | | | F08 / 1,40 | F10 / 1,14 | F12 / 0,97 |
| 1 1/4" 42,9 x 4,05 | 82 | 20 x 0,75 | D 32-82-08 | D 32-82-10 | D 32-82-12 |
| | | | F08 / 1,21 | F10 / 0,99 | F12 / 0,85 |
| | 92 | 25 x 0,75 | D 32-92-10 | D 32-92-12 | D 32-92-15 |
| | | | F10 / 1,31 | F12 / 1,11 | F15 / 0,92 |
| 1 1/2" 48,8 x 4,05 | 88 | 20 x 0,75 | D 40-88-08 | D 40-88-10 | D 40-88-12 |
| | | | F08 / 1,32 | F10 / 1,09 | F12 / 0,93 |
| | 98 | 25 x 0,75 | D 40-98-10 | D 40-98-12 | D 40-98-15 |
| | | | F10 / 1,42 | F12 / 1,21 | F15 / 1,00 |
| 2" 60,8 x 4,50 | 110 | 25 x 0,75 | D 50-110-10 | D 50-110-12 | D 50-110-15 |
| | | | F10 / 1,63 | F12 / 1,39 | F15 / 1,15 |
| | 123 | 31,5 x 0,75 | D 50-123-10 | D 50-123-12 | D 50-123-15 |
| | | | F10 / 2,17 | F12 / 1,84 | F15 / 1,51 |
| 3" 89,5 x 4,85 | 139 | 25 x 0,75 | D 80-139-10 | D 80-139-12 | D 80-139-15 |
| | | | F10 / 2,18 | F12 / 1,87 | F15 / 1,55 |
| | 152 | 31,5 x 0,75 | D 80-152-10 | D 80-152-12 | D 80-152-15 |
| | | | F10 / 2,84 | F12 / 2,41 | F15 / 1,99 |



Standard



Finned Tubes type R and S manufactured from stainless and acid-resistant steel tubes

| Tube size mm | Fin diameter mm | Fin dimension mm | Type No. | | |
|-----------------|--------------------|---------------------|---|------------------------|------------------------|
| | | | Fin pitch mm / Outside surface area m ² /m | | |
| 12 x 1,5 | 28 | 8 x 0,4 | R 12-28-04 | R 12-28-05 | R 12-28-06 |
| | | | F ₀₄ / 0,32 | F ₀₅ / 0,26 | F ₀₆ / 0,22 |
| 16 x 1,5 | 36 | 10 x 0,4 | R 16-36-05 | R 16-36-06 | R 16-36-08 |
| | | | F ₀₅ / 0,41 | F ₀₆ / 0,35 | F ₀₈ / 0,28 |
| | 40 | 12 x 0,4 | R 16-40-05 | R 16-40-06 | R 16-40-08 |
| | | | F ₀₅ / 0,52 | F ₀₆ / 0,44 | F ₀₈ / 0,35 |
| 19 x 1,5 | 39 | 10 x 0,4 | R 19-39-05 | R 19-39-06 | R 19-39-08 |
| | | | F ₀₅ / 0,46 | F ₀₆ / 0,39 | F ₀₈ / 0,31 |
| | 43 | 12 x 0,4 | R 19-43-05 | R 19-43-06 | R 19-43-08 |
| | | | F ₀₅ / 0,58 | F ₀₆ / 0,49 | F ₀₈ / 0,38 |
| | 51 | 16 x 0,4 | R 19-51-06 | R 19-51-08 | R 19-51-10 |
| | | | F ₀₆ / 0,72 | F ₀₈ / 0,55 | F ₁₀ / 0,45 |
| 21,3 x 2 | 45 | S 12 x 0,8 | S 21-45-05 | S 21-45-06 | S 21-45-08 |
| | | | F ₀₅ / 0,62 | F ₀₆ / 0,53 | F ₀₈ / 0,41 |
| 22 x 1,5 | 46 | R 12 x 0,4 | R & S 22-46-05 | R & S 22-46-06 | R & S 22-46-08 |
| | | S 12 x 0,8 | F ₀₅ / 0,63 | F ₀₆ / 0,54 | F ₀₈ / 0,42 |
| | 54 | 16 x 0,5 | R 22-54-08 | R 22-54-10 | R 22-54-12 |
| | | | F ₀₈ / 0,60 | F ₁₀ / 0,49 | F ₁₂ / 0,42 |
| 25 x 1,5 | 57 | 16 x 0,5 | R & S 25-57-06 | R & S 25-57-08 | R & S 25-57-10 |
| | | | F ₀₆ / 0,84 | F ₀₈ / 0,65 | F ₁₀ / 0,53 |
| | 65 | 20 x 0,7 | R 25-65-08 | R 25-65-10 | R 25-65-12 |
| | | | F ₀₈ / 0,87 | F ₁₀ / 0,71 | F ₁₂ / 0,61 |
| 28 x 1,5 | 60 | 16 x 0,5 | R 28-60-06 | R 28-60-08 | R 28-60-10 |
| | | | F ₀₆ / 0,90 | F ₀₈ / 0,70 | F ₁₀ / 0,57 |
| | 68 | 20 x 0,7 | ^{*)} R & S 28-68-08 | R & S 28-68-10 | R & S 28-68-12 |
| | | | F ₀₈ / 0,93 | F ₁₀ / 0,76 | F ₁₂ / 0,65 |
| 33,7 x 1,6 | 73 | 20 x 0,7 | ^{*)} R & S 33-73-08 | R & S 33-73-10 | R & S 33-73-12 |
| | | | F ₀₈ / 1,03 | F ₁₀ / 0,85 | F ₁₂ / 0,73 |
| 42,4 x 1,6 | 82 | 20 x 0,7 | R & S 42-82-08 | R & S 42-82-10 | R & S 42-82-12 |
| | | | F ₀₈ / 1,20 | F ₁₀ / 0,99 | F ₁₂ / 0,84 |
| | 92 | 25 x 0,7 | R 42-92-10 | R 42-92-12 | R 42-92-15 |
| | | | F ₁₀ / 1,30 | F ₁₂ / 1,10 | F ₁₅ / 0,91 |
| 48,3 x 1,6 | 88 | 20 x 0,7 | R 48-88-08 | R 48-88-10 | R 48-88-12 |
| | | | F ₀₈ / 1,31 | F ₁₀ / 1,08 | F ₁₂ / 0,92 |
| | 98 | 25 x 0,7 | R 48-98-10 | R 48-98-12 | R 48-98-15 |
| | | | F ₁₀ / 1,41 | F ₁₂ / 1,20 | F ₁₅ / 0,99 |
| 51 x 1,5 | 91 | 20 x 0,7 | R 51-91-10 | R 51-91-12 | R 51-91-15 |
| | | | F ₁₀ / 1,12 | F ₁₂ / 0,96 | F ₁₅ / 0,80 |
| 60,3 x 2 | 110 | 25 x 0,7 | R 60-110-10 | R 60-110-12 | R 60-110-15 |
| | | | F ₁₀ / 1,63 | F ₁₂ / 1,39 | F ₁₅ / 1,15 |

Typ R

Manufactured from welded stainless steel tubes material No. 1.4306/AISI 304 L.
If requested at the time of ordering a certificate to EN 10204/DIN 50049-3.1 B
can be supplied.



Standard

Typ S

Manufactured from welded acid-resistant steel tubes material No. 1.4435/AISI 316 L.
If requested at the time of ordering a certificate to EN 10204/DIN 50049-3.1 B
can be supplied.

^{*)} Only type R
is standard.

The Finned Tubes can be supplied with stainless steel fins on acid-resistant steel tubes.
Tubes from stainless and from acid-resistant materials can be supplied with fins from
normal steel, Sendzimir zinc coated steel or copper.

Finned Tubes type C manufactured from seamless copper tubes DIN 1787/ISO 274

| Tube size mm | Fin diameter mm | Fin dimension mm | Type No. | | |
|-----------------|--------------------|---------------------|---|------------------------|------------------------|
| | | | Fin pitch mm / Outside surface area m ² /m | | |
| 12 x 1,0 | 19 | 3,5 x 0,5 | C 12-19-04 | C 12-19-05 | C 12-19-06 |
| | | | F ₀₄ / 0,13 | F ₀₅ / 0,11 | F ₀₆ / 0,10 |
| 15 x 1,0 | 39 | 12 x 0,5 | C 15-39-05 | C 15-39-06 | C 15-39-08 |
| | | | F ₀₅ / 0,50 | F ₀₆ / 0,43 | F ₀₈ / 0,33 |
| 18 x 1,0 | 42 | 12 x 0,5 | C 18-42-05 | C 18-42-06 | C 18-42-08 |
| | | | F ₀₅ / 0,56 | F ₀₆ / 0,47 | F ₀₈ / 0,37 |
| 22 x 1,0 | 46 | 12 x 0,5 | C 22-46-05 | C 22-46-06 | C 22-46-08 |
| | | | F ₀₅ / 0,63 | F ₀₆ / 0,54 | F ₀₈ / 0,42 |
| | 62 | 20 x 0,5 | C 22-62-08 | C 22-62-10 | C 22-62-12 |
| | | | F ₀₈ / 0,81 | F ₁₀ / 0,66 | F ₁₂ / 0,56 |
| 28 x 1,2 | 52 | 12 x 0,5 | C 28-52-06 | C 28-52-08 | C 28-52-10 |
| | | | F ₀₆ / 0,63 | F ₀₈ / 0,50 | F ₁₀ / 0,41 |
| | 68 | 20 x 0,5 | C 28-68-08 | C 28-68-10 | C 28-68-12 |
| | | | F ₀₈ / 0,92 | F ₁₀ / 0,76 | F ₁₂ / 0,65 |
| 35 x 1,5 | 75 | 20 x 0,5 | C 35-75-08 | C 35-75-10 | C 35-75-12 |
| | | | F ₀₈ / 1,06 | F ₁₀ / 0,87 | F ₁₂ / 0,74 |
| 42 x 1,5 | 82 | 20 x 0,5 | C 42-82-08 | C 42-82-10 | C 42-82-12 |
| | | | F ₀₈ / 1,19 | F ₁₀ / 0,98 | F ₁₂ / 0,84 |

Finned Tubes type A manufactured from aluminium tubes AlMgSi 0,5 DIN 1725

| Tube size mm | Fin diameter mm | Fin dimension mm | Type No. | | |
|-----------------|--------------------|---------------------|---|------------------------|------------------------|
| | | | Fin pitch mm / Outside surface area m ² /m | | |
| 32 x 2,0 | 72 | 20 x 0,75 | A 32-72-08 | A 32-72-10 | A 32-72-12 |
| | | | F ₀₈ / 1,00 | F ₁₀ / 0,82 | F ₁₂ / 0,70 |
| 38 x 2,0 | 78 | 20 x 0,75 | A 38-78-08 | *) A 38-78-10 | A 38-78-12 |
| | | | F ₀₈ / 1,12 | F ₁₀ / 0,92 | F ₁₂ / 0,78 |
| 42 x 3,0 | 82 | 20 x 0,75 | A 42-82-08 | A 42-82-10 | A 42-82-12 |
| | | | F ₀₈ / 1,19 | F ₁₀ / 0,98 | F ₁₂ / 0,84 |
| 50 x 2,5 | 90 | 20 x 0,75 | A 50-90-10 | A 50-90-12 | A 50-90-15 |
| | | | F ₁₀ / 1,10 | F ₁₂ / 0,95 | F ₁₅ / 0,79 |

*) Are used for timber drying installations and can be supplied with welded 1¼" aluminium sockets.



Standard

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