



# ALICE 25 TANDEM VERTICAL



**EUROPEAN WARRANTY**

**MATERIAL:**

- Horizontal collectors in painted mild steel ø 30 mm.
- Double vertical heating elements in painted mild steel ø 25 mm.

**FIXING KIT:**

Brackets, airvent, hexagonal tool, plugs and screws for mounting suitable for use on compact or hollow brick, user notice.

**PACKAGING:**

Carton angular and profiles protected by a recyclable film in polyethylene. User notice included.

**PAINTING PROCESS:**

Painted with ecological epoxy powders (Certificate DIN 55900-1,-2).

**COLOURS:**

See colour chart.

**ACCESSORIES:**

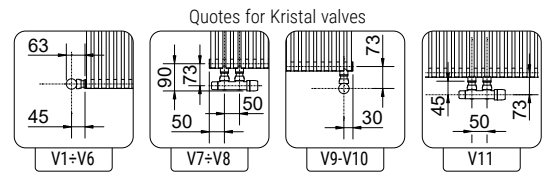
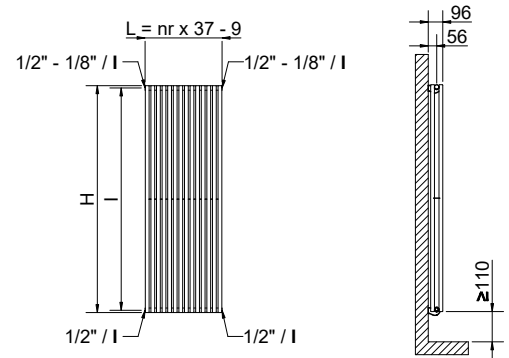
For the complete list, please refer to the accessories chapter.

| Height H [mm]                           | 400    | 500    | 530    | 600    | 630    | 700    | 800    | 830    | 930    | 1000   | 1200   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Therm. output per el. Δt = 50 °C [Watt] | 34,7   | 42     | 44,1   | 49     | 51,1   | 55,9   | 62,7   | 64,7   | 71,4   | 76     | 89,2   |
| Therm. output per el. Δt = 30 °C [Watt] | 18,2   | 21,9   | 23     | 25,6   | 26,7   | 29,2   | 32,7   | 33,7   | 37,1   | 39,5   | 46,2   |
| Dry Weight per section [kg]             | 0,537  | 0,656  | 0,691  | 0,774  | 0,810  | 0,892  | 1,011  | 1,047  | 1,165  | 1,248  | 1,485  |
| Element water content [lt]              | 0,377  | 0,460  | 0,485  | 0,543  | 0,568  | 0,626  | 0,709  | 0,734  | 0,817  | 0,875  | 1,041  |
| Element surface [m <sup>2</sup> ]       | 0,070  | 0,086  | 0,090  | 0,101  | 0,106  | 0,117  | 0,133  | 0,137  | 0,153  | 0,164  | 0,195  |
| Exp. n                                  | 1,2668 | 1,2691 | 1,2698 | 1,2714 | 1,2721 | 1,2737 | 1,2760 | 1,2767 | 1,2790 | 1,2807 | 1,2878 |
| Pipe centres l [mm] (V3-V4 only)        | 370    | 470    | 500    | 570    | 600    | 670    | 770    | 800    | 900    | 970    | 1170   |

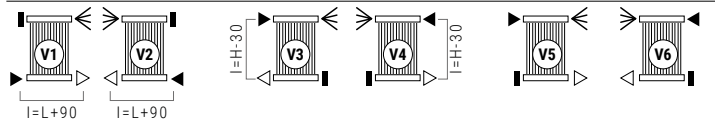
For output at different ΔT, please refer to the following formula: desired output = output at ΔT 50 x (desired ΔT/50)<sup>n</sup>

| Height H [mm]                           | 1400   | 1500   | 1600   | 1700   | 1800   | 1900   | 2000   | 2100   | 2200   | 2300   | 2500   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Therm. output per el. Δt = 50 °C [Watt] | 102,1  | 108,6  | 115    | 121,4  | 127,8  | 134,2  | 140,6  | 146,9  | 153,3  | 159,7  | 172,5  |
| Therm. output per el. Δt = 30 °C [Watt] | 52,7   | 55,9   | 59,1   | 62,4   | 65,6   | 68,8   | 72     | 75,2   | 78,4   | 82,5   | 88,7   |
| Dry Weight per section [kg]             | 1,722  | 1,840  | 1,959  | 2,077  | 2,196  | 2,314  | 2,433  | 2,551  | 2,670  | 2,788  | 3,025  |
| Element water content [lt]              | 1,208  | 1,291  | 1,374  | 1,457  | 1,540  | 1,623  | 1,706  | 1,789  | 1,872  | 1,955  | 2,122  |
| Element surface [m <sup>2</sup> ]       | 0,227  | 0,243  | 0,258  | 0,274  | 0,290  | 0,305  | 0,321  | 0,337  | 0,353  | 0,368  | 0,400  |
| Exp. n                                  | 1,2949 | 1,2984 | 1,3020 | 1,3036 | 1,3052 | 1,3069 | 1,3085 | 1,3102 | 1,3118 | 1,3134 | 1,3151 |
| Pipe centres l [mm] (V3-V4 only)        | 1370   | 1470   | 1570   | 1670   | 1770   | 1870   | 1970   | 2070   | 2170   | 2270   | 2470   |

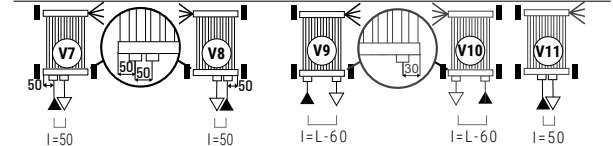
P. max: 8 bar      T. max: 110° C  
Functioning: hot water      Connections: n° 2 x 1/2" G - n° 1 da 1/8" G



**STANDARD CONNECTIONS WITHOUT SURCHARGE**



**SPECIAL CONNECTIONS**



**LEGENDA:** ► In    ▷ Out    ◄ airvent    H Height    l pipe centres    L width    □ connection    ■ welded cap

Always specify the kind of connection needed when ordering.  
Bidirectional pipe connection not available

**HOW TO ORDER THE RADIATOR ALICE 25 TANDEM VERTICAL**

| ARTICLE NR. STRUCTURE | Radiator model | Nr of Elements | Height in cm | Code of the connection | Code of the colour | Constant value |
|-----------------------|----------------|----------------|--------------|------------------------|--------------------|----------------|
| AAAA                  | BB             | CCC            | DDD          | EEE                    | A                  |                |

| EXAMPLE | Radiator model<br>E.g.: Alice 25 tandem vertical | Nr of Elements<br>E.g.: 24 elements | Height in cm<br>Example: 800 mm | Code of the connection<br>Example: connection V2 | Code of the colour<br>Example: S16 - Canary | Constant value |
|---------|--|-------------------------------------|---------------------------------|--|---|----------------|
| AT25    | 24   | 080                                 | V02                             | S16  | A   |                |

**EXAMPLE OF ARTICLE CODE CREATION**  
In the case of a radiator:  
**AT25** ALICE 25 TANDEM VERTICAL  
**24** 24 elements  
**080** Height 800 mm  
**V02** connection V2  
**S16** colour S16 - Canary  
**A** (Constant value)  
 The article code will be:  
**AT25 24 080 V02 S16 A**

**ACCESSORIES**

If ordered separately from the radiator, the accessories are available in standard white only

|   |   |  |
|---|---|--|
| <p><b>Kristal valve square with thermostatic option white R01</b></p> <p>Copper conn. Ø 12/14/15<br/>Art. nr. 5991990311161</p> <p>Multilayer conn. Ø 16<br/>Art. nr. 5991990311160</p> | <p><b>Kristal valve square pipe centres 50 mm right white R01</b></p> <p>Copper conn. Ø 12/14/15<br/>Art. nr. 5991990311186</p> <p>Multilayer conn. Ø 16<br/>Art. nr. 5991990311185</p> | <p><b>Thermostatic head white</b></p> <p>(Kit 2 pieces)<br/>Art. nr. 5035270710016</p> |
|---|---|--|

Art. nr. are referred to colour WHITE R01



# ALICE 25 TANDEM VERTICAL

| Height H [mm] |        | 400                                | 500                                | 530                                | 600                                | 630                                | 700                                | 800                                | 830                                | 930                                | 1000                               | 1200                               |
|---------------|--------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Width L [mm]  | N° El. | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ |
| 176           | 5      | 174                                | 210                                | 221                                | 245                                | 256                                | 280                                | 314                                | 324                                | 357                                | 380                                | 446                                |
| 213           | 6      | 208                                | 252                                | 265                                | 294                                | 307                                | 335                                | 376                                | 388                                | 428                                | 456                                | 535                                |
| 250           | 7      | 243                                | 294                                | 309                                | 343                                | 358                                | 391                                | 439                                | 453                                | 500                                | 532                                | 624                                |
| 287           | 8      | 278                                | 336                                | 353                                | 392                                | 409                                | 447                                | 502                                | 518                                | 571                                | 608                                | 714                                |
| 324           | 9      | 312                                | 378                                | 397                                | 441                                | 460                                | 503                                | 564                                | 582                                | 643                                | 684                                | 803                                |
| 361           | 10     | 347                                | 420                                | 441                                | 490                                | 511                                | 559                                | 627                                | 647                                | 714                                | 760                                | 892                                |
| 398           | 11     | 382                                | 462                                | 485                                | 539                                | 562                                | 615                                | 690                                | 712                                | 785                                | 836                                | 981                                |
| 435           | 12     | 416                                | 504                                | 529                                | 588                                | 613                                | 671                                | 752                                | 776                                | 857                                | 912                                | 1070                               |
| 472           | 13     | 451                                | 546                                | 573                                | 637                                | 664                                | 727                                | 815                                | 841                                | 928                                | 988                                | 1160                               |
| 509           | 14     | 486                                | 588                                | 617                                | 686                                | 715                                | 783                                | 878                                | 906                                | 1000                               | 1064                               | 1249                               |
| 546           | 15     | 521                                | 630                                | 662                                | 735                                | 767                                | 839                                | 941                                | 971                                | 1071                               | 1140                               | 1338                               |
| 583           | 16     | 555                                | 672                                | 706                                | 784                                | 818                                | 894                                | 1003                               | 1035                               | 1142                               | 1216                               | 1427                               |
| 620           | 17     | 590                                | 714                                | 750                                | 833                                | 869                                | 950                                | 1066                               | 1100                               | 1214                               | 1292                               | 1516                               |
| 657           | 18     | 625                                | 756                                | 794                                | 882                                | 920                                | 1006                               | 1129                               | 1165                               | 1285                               | 1368                               | 1606                               |
| 694           | 19     | 659                                | 798                                | 838                                | 931                                | 971                                | 1062                               | 1191                               | 1229                               | 1357                               | 1444                               | 1695                               |
| 731           | 20     | 694                                | 840                                | 882                                | 980                                | 1022                               | 1118                               | 1254                               | 1294                               | 1428                               | 1520                               | 1784                               |
| 768           | 21     | 729                                | 882                                | 926                                | 1029                               | 1073                               | 1174                               | 1317                               | 1359                               | 1499                               | 1596                               | 1873                               |
| 805           | 22     | 763                                | 924                                | 970                                | 1078                               | 1124                               | 1230                               | 1379                               | 1423                               | 1571                               | 1672                               | 1962                               |
| 842           | 23     | 798                                | 966                                | 1014                               | 1127                               | 1175                               | 1286                               | 1442                               | 1488                               | 1642                               | 1748                               | 2052                               |
| 879           | 24     | 833                                | 1008                               | 1058                               | 1176                               | 1226                               | 1342                               | 1505                               | 1553                               | 1714                               | 1824                               | 2141                               |
| 916           | 25     | 868                                | 1050                               | 1103                               | 1225                               | 1278                               | 1398                               | 1568                               | 1618                               | 1785                               | 1900                               | 2230                               |
| 953           | 26     | 902                                | 1092                               | 1147                               | 1274                               | 1329                               | 1453                               | 1630                               | 1682                               | 1856                               | 1976                               | 2319                               |
| 990           | 27     | 937                                | 1134                               | 1191                               | 1323                               | 1380                               | 1509                               | 1693                               | 1747                               | 1928                               | 2052                               | 2408                               |
| 1027          | 28     | 972                                | 1176                               | 1235                               | 1372                               | 1431                               | 1565                               | 1756                               | 1812                               | 1999                               | 2128                               | 2498                               |
| 1064          | 29     | 1006                               | 1218                               | 1279                               | 1421                               | 1482                               | 1621                               | 1818                               | 1876                               | 2071                               | 2204                               | 2587                               |
| 1101          | 30     | 1041                               | 1260                               | 1323                               | 1470                               | 1533                               | 1677                               | 1881                               | 1941                               | 2142                               | 2280                               | 2676                               |
| 1138          | 31     | 1076                               | 1302                               | 1367                               | 1519                               | 1584                               | 1733                               | 1944                               | 2006                               | 2213                               | 2356                               | 2765                               |
| 1175          | 32     | 1110                               | 1344                               | 1411                               | 1568                               | 1635                               | 1789                               | 2006                               | 2070                               | 2285                               | 2432                               | 2854                               |
| 1212          | 33     | 1145                               | 1386                               | 1455                               | 1617                               | 1686                               | 1845                               | 2069                               | 2135                               | 2356                               | 2508                               | 2944                               |
| 1249          | 34     | 1180                               | 1428                               | 1499                               | 1666                               | 1737                               | 1901                               | 2132                               | 2200                               | 2428                               | 2584                               | 3033                               |
| 1286          | 35     | 1215                               | 1470                               | 1544                               | 1715                               | 1789                               | 1957                               | 2195                               | 2265                               | 2499                               | 2660                               | 3122                               |
| 1323          | 36     | 1249                               | 1512                               | 1588                               | 1764                               | 1840                               | 2012                               | 2257                               | 2329                               | 2570                               | 2736                               | 3211                               |
| 1360          | 37     | 1284                               | 1554                               | 1632                               | 1813                               | 1891                               | 2068                               | 2320                               | 2394                               | 2642                               | 2812                               | 3300                               |
| 1397          | 38     | 1319                               | 1596                               | 1676                               | 1862                               | 1942                               | 2124                               | 2383                               | 2459                               | 2713                               | 2888                               | 3390                               |
| 1434          | 39     | 1353                               | 1638                               | 1720                               | 1911                               | 1993                               | 2180                               | 2445                               | 2523                               | 2785                               | 2964                               | 3479                               |
| 1471          | 40     | 1388                               | 1680                               | 1764                               | 1960                               | 2044                               | 2236                               | 2508                               | 2588                               | 2856                               | 3040                               | 3568                               |
| 1508          | 41     | 1423                               | 1722                               | 1808                               | 2009                               | 2095                               | 2292                               | 2571                               | 2653                               | 2927                               | 3116                               | 3657                               |
| 1545          | 42     | 1457                               | 1764                               | 1852                               | 2058                               | 2146                               | 2348                               | 2633                               | 2717                               | 2999                               | 3192                               | 3746                               |

All intermediate sizes are available for widths from 5 to 42 elements and heights from 400 to 2500 mm



| Height H [mm] |        | 1400                               | 1500                               | 1600                               | 1700                               | 1800                               | 1900                               | 2000                               | 2100                               | 2200                               | 2300                               | 2500                               |
|---------------|--------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Width L [mm]  | N° El. | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ | Watt $\Delta t=50^{\circ}\text{C}$ |
| 176           | 5      | 511                                | 543                                | 575                                | 607                                | 639                                | 671                                | 703                                | 735                                | 767                                | 799                                | 863                                |
| 213           | 6      | 613                                | 652                                | 690                                | 728                                | 767                                | 805                                | 844                                | 881                                | 920                                | 958                                | 1035                               |
| 250           | 7      | 715                                | 760                                | 805                                | 850                                | 895                                | 939                                | 984                                | 1028                               | 1073                               | 1118                               | 1208                               |
| 287           | 8      | 817                                | 869                                | 920                                | 971                                | 1022                               | 1074                               | 1125                               | 1175                               | 1226                               | 1278                               | 1380                               |
| 324           | 9      | 919                                | 977                                | 1035                               | 1093                               | 1150                               | 1208                               | 1265                               | 1322                               | 1380                               | 1437                               | 1553                               |
| 361           | 10     | 1021                               | 1086                               | 1150                               | 1214                               | 1278                               | 1342                               | 1406                               | 1469                               | 1533                               | 1597                               | 1725                               |
| 398           | 11     | 1123                               | 1195                               | 1265                               | 1335                               | 1406                               | 1476                               | 1547                               | 1616                               | 1686                               | 1757                               | 1898                               |
| 435           | 12     | 1225                               | 1303                               | 1380                               | 1457                               | 1534                               | 1610                               | 1687                               | 1763                               | 1840                               | 1916                               | 2070                               |
| 472           | 13     | 1327                               | 1412                               | 1495                               | 1578                               | 1661                               | 1745                               | 1828                               | 1910                               | 1993                               | 2076                               | 2243                               |
| 509           | 14     | 1429                               | 1520                               | 1610                               | 1700                               | 1789                               | 1879                               | 1968                               | 2057                               | 2146                               | 2236                               | 2415                               |
| 546           | 15     | 1532                               | 1629                               | 1725                               | 1821                               | 1917                               | 2013                               | 2109                               | 2204                               | 2300                               | 2396                               | 2588                               |
| 583           | 16     | 1634                               | 1738                               | 1840                               | 1942                               | 2045                               | 2147                               | 2250                               | 2350                               | 2453                               | 2555                               | 2760                               |
| 620           | 17     | 1736                               | 1846                               | 1955                               | 2064                               | 2173                               | 2281                               | 2390                               | 2497                               | 2606                               | 2715                               | 2933                               |
| 657           | 18     | 1838                               | 1955                               | 2070                               | 2185                               | 2300                               | 2416                               | 2531                               | 2644                               | 2759                               | 2875                               | 3105                               |
| 694           | 19     | 1940                               | 2063                               | 2185                               | 2307                               | 2428                               | 2550                               | 2671                               | 2791                               | 2913                               | 3034                               | 3278                               |
| 731           | 20     | 2042                               | 2172                               | 2300                               | 2428                               | 2556                               | 2684                               | 2812                               | 2938                               | 3066                               | 3194                               | 3450                               |
| 768           | 21     | 2144                               | 2281                               | 2415                               | 2549                               | 2684                               | 2818                               | 2953                               | 3085                               | 3219                               | 3354                               | 3623                               |
| 805           | 22     | 2246                               | 2389                               | 2530                               | 2671                               | 2812                               | 2952                               | 3093                               | 3232                               | 3373                               | 3513                               | 3795                               |
| 842           | 23     | 2348                               | 2498                               | 2645                               | 2792                               | 2939                               | 3087                               | 3234                               | 3379                               | 3526                               | 3673                               | 3968                               |
| 879           | 24     | 2450                               | 2606                               | 2760                               | 2914                               | 3067                               | 3221                               | 3374                               | 3526                               | 3679                               | 3833                               | 4140                               |
| 916           | 25     | 2553                               | 2715                               | 2875                               | 3035                               | 3195                               | 3355                               | 3515                               | 3673                               | 3833                               | 3993                               | 4313                               |
| 953           | 26     | 2655                               | 2824                               | 2990                               | 3156                               | 3323                               | 3489                               | 3656                               | 3819                               | 3986                               | 4152                               | 4485                               |
| 990           | 27     | 2757                               | 2932                               | 3105                               | 3278                               | 3451                               | 3623                               | 3796                               | 3966                               | 4139                               | 4312                               | 4658                               |
| 1027          | 28     | 2859                               | 3041                               | 3220                               | 3399                               | 3578                               | 3758                               | 3937                               | 4113                               | 4292                               | 4472                               | 4830                               |
| 1064          | 29     | 2961                               | 3149                               | 3335                               | 3521                               | 3706                               | 3892                               | 4077                               | 4260                               | 4446                               | 4631                               | 5003                               |
| 1101          | 30     | 3063                               | 3258                               | 3450                               | 3642                               | 3834                               | 4026                               | 4218                               | 4407                               | 4599                               | 4791                               | 5175                               |
| 1138          | 31     | 3165                               | 3367                               | 3565                               | 3763                               | 3962                               | 4160                               | 4359                               | 4554                               | 4752                               | 4951                               | 5348                               |
| 1175          | 32     | 3267                               | 3475                               | 3680                               | 3885                               | 4090                               | 4294                               | 4499                               | 4701                               | 4906                               | 5110                               | 5520                               |
| 1212          | 33     | 3369                               | 3584                               | 3795                               | 4006                               | 4217                               | 4429                               | 4640                               | 4848                               | 5059                               | 5270                               | 5693                               |
| 1249          | 34     | 3471                               | 3692                               | 3910                               | 4128                               | 4345                               | 4563                               | 4780                               | 4995                               | 5212                               | 5430                               | 5865                               |
| 1286          | 35     | 3574                               | 3801                               | 4025                               | 4249                               | 4473                               | 4697                               | 4921                               | 5142                               | 5366                               | 5590                               | 6038                               |
| 1323          | 36     | 3676                               | 3910                               | 4140                               | 4370                               | 4601                               | 4831                               | 5062                               | 5288                               | 5519                               | 5749                               | 6210                               |
| 1360          | 37     | 3778                               | 4018                               | 4255                               | 4492                               | 4729                               | 4965                               | 5202                               | 5435                               | 5672                               | 5909                               | 6383                               |
| 1397          | 38     | 3880                               | 4127                               | 4370                               | 4613                               | 4856                               | 5100                               | 5343                               | 5582                               | 5825                               | 6069                               | 6555                               |
| 1434          | 39     | 3982                               | 4235                               | 4485                               | 4735                               | 4984                               | 5234                               | 5483                               | 5729                               | 5979                               | 6228                               | 6728                               |
| 1471          | 40     | 4084                               | 4344                               | 4600                               | 4856                               | 5112                               | 5368                               | 5624                               | 5876                               | 6132                               | 6388                               | 6900                               |
| 1508          | 41     | 4186                               | 4453                               | 4715                               | 4977                               | 5240                               | 5502                               | 5765                               | 6023                               | 6285                               | 6548                               | 7073                               |
| 1545          | 42     | 4288                               | 4561                               | 4830                               | 5099                               | 5368                               | 5636                               | 5905                               | 6170                               | 6439                               | 6707                               | 7245                               |