



# 2024 | PRODUCT CATALOGUE



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Cover, clockwise from top left: K2 Softline Radiator, Vertex Radiator, Column Radiator, Style Radiator, Ladder Rail

## Stelrad K1 and K2 Softline Compact Radiator

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- All Stelrad radiators must be installed on a closed system or warranty is void
- Outside wood boilers without a heat exchanger are NOT on a closed system
- Heating PEX must be used, not potable water PEX
- Applies to all models
- All K1 and K2 radiators have a 1/2" BSP connection
- Horizontal radiators are NOT to be rotated for installation



With gently curved top grille and end panels, the new Stelrad Softline Radiator is the mould breaking next generation compact radiator from Stelrad. Now available in heights of 8", 12", 18", 24" and 28" and a variety of lengths from 16" to 120". Most items are carried in stock and come with wall brackets, hardware pack and instructions for easy installation. Each steel radiator has a 1/2" BSP connection, is powder coated white (RAL 9016) and carries a ten year warranty. Valves sold separately.

## 4 Stelrad K1 Softline Compact Radiator Sizes and Technical Data

| PART #<br>(Inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>100 °F AWT | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | Rough-In from<br>finished wall | Rough-In distance<br>apart centre to<br>centre** |
|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--------------------------------|--------------------------------------------------|
| K1 12 20           | 300            | 500            | 248                         | 406                         | 626                         | 868                         | 10              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| K1 12 24           | 300            | 600            | 298                         | 488                         | 750                         | 1044                        | 12              | 2 1/8" or 2 5/8"               | 27 1/2"                                          |
| K1 12 32           | 300            | 800            | 398                         | 651                         | 1000                        | 1392                        | 16              | 2 1/8" or 2 5/8"               | 35 1/2"                                          |
| K1 12 36           | 300            | 900            | 445                         | 728                         | 1125                        | 1556                        | 18              | 2 1/8" or 2 5/8"               | 39 3/8"                                          |
| K1 12 40           | 300            | 1000           | 496                         | 812                         | 1252                        | 1737                        | 21              | 2 1/8" or 2 5/8"               | 43 1/4"                                          |
| K1 12 48           | 300            | 1200           | 597                         | 976                         | 1500                        | 2088                        | 24              | 2 1/8" or 2 5/8"               | 51 1/4"                                          |
| K1 12 60           | 300            | 1500           | 744                         | 1217                        | 1878                        | 2605                        | 31              | 2 1/8" or 2 5/8"               | 63"                                              |
| K1 12 72           | 300            | 1800           | 895                         | 1464                        | 2250                        | 3132                        | 36              | 2 1/8" or 2 5/8"               | 74 3/4"                                          |
| K1 12 80           | 300            | 2000           | 992                         | 1623                        | 2504                        | 3473                        | 41              | 2 1/8" or 2 5/8"               | 82 5/8"                                          |
| K1 12 98           | 300            | 2500           | 1240                        | 2029                        | 3131                        | 4342                        | 51              | 2 1/8" or 2 5/8"               | 102 3/8"                                         |
| K1 12 120          | 300            | 3000           | 1488                        | 2435                        | 3756                        | 5210                        | 62              | 2 1/8" or 2 5/8"               | 122"                                             |
| K1 18 16           | 450            | 400            | 295                         | 482                         | 744                         | 1032                        | 13              | 2 1/8" or 2 5/8"               | 19 5/8"                                          |
| K1 18 20           | 450            | 500            | 368                         | 603                         | 930                         | 1290                        | 16              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| K1 18 24           | 450            | 600            | 442                         | 723                         | 1116                        | 1548                        | 19              | 2 1/8" or 2 5/8"               | 27 1/2"                                          |
| K1 18 28           | 450            | 700            | 516                         | 844                         | 1302                        | 1806                        | 22              | 2 1/8" or 2 5/8"               | 31 1/2"                                          |
| K1 18 32           | 450            | 800            | 589                         | 964                         | 1488                        | 2064                        | 26              | 2 1/8" or 2 5/8"               | 35 1/2"                                          |
| K1 18 36           | 450            | 900            | 663                         | 1085                        | 1674                        | 2322                        | 29              | 2 1/8" or 2 5/8"               | 39 3/8"                                          |
| K1 18 40           | 450            | 1000           | 737                         | 1205                        | 1859                        | 2579                        | 32              | 2 1/8" or 2 5/8"               | 43 1/4"                                          |
| K1 18 44           | 450            | 1100           | 810                         | 1326                        | 2045                        | 2837                        | 35              | 2 1/8" or 2 5/8"               | 47 1/4"                                          |
| K1 18 48           | 450            | 1200           | 884                         | 1446                        | 2231                        | 3095                        | 38              | 2 1/8" or 2 5/8"               | 51 1/4"                                          |
| K1 18 55           | 450            | 1400           | 1031                        | 1687                        | 2604                        | 3611                        | 45              | 2 1/8" or 2 5/8"               | 59"                                              |
| K1 18 64           | 450            | 1600           | 1179                        | 1929                        | 2976                        | 4127                        | 51              | 2 1/8" or 2 5/8"               | 67"                                              |
| K1 18 72           | 450            | 1800           | 1326                        | 2170                        | 3348                        | 4643                        | 57              | 2 1/8" or 2 5/8"               | 74 3/4"                                          |
| K1 18 80           | 450            | 2000           | 1473                        | 2411                        | 3720                        | 5159                        | 64              | 2 1/8" or 2 5/8"               | 82 5/8"                                          |
| K1 18 86           | 450            | 2200           | 1621                        | 2652                        | 4092                        | 5675                        | 70              | 2 1/8" or 2 5/8"               | 90 1/2"                                          |
| K1 18 94           | 450            | 2400           | 1768                        | 2893                        | 4464                        | 6191                        | 77              | 2 1/8" or 2 5/8"               | 98 1/2"                                          |
| K1 18 100          | 450            | 2600           | 1915                        | 3134                        | 4836                        | 6707                        | 83              | 2 1/8" or 2 5/8"               | 106 1/4"                                         |
| K1 18 110          | 450            | 2800           | 2063                        | 3375                        | 5208                        | 7223                        | 89              | 2 1/8" or 2 5/8"               | 114 1/8"                                         |
| K1 18 120          | 450            | 3000           | 2210                        | 3616                        | 5579                        | 7738                        | 96              | 2 1/8" or 2 5/8"               | 122"                                             |

AWT = Average Water Temperature

\* K1-08 models are discontinued.

## Stelrad K1 Softline Compact Radiator Sizes and Technical Data

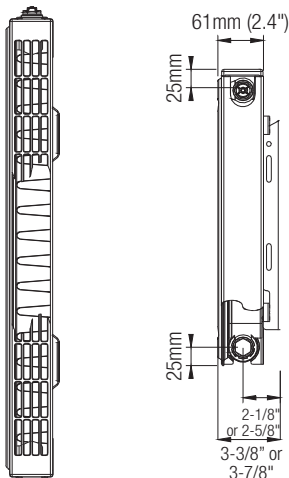
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| PART #<br>(Inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>100 °F AWT | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | Rough-In from<br>finished wall | Rough-In distance<br>apart centre to<br>centre** |
|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--------------------------------|--------------------------------------------------|
| K1 24 16           | 600            | 400            | 382                         | 625                         | 965                         | 1338                        | 17              | 2 1/8" or 2 5/8"               | 19 5/8"                                          |
| K1 24 20           | 600            | 500            | 477                         | 781                         | 1206                        | 1672                        | 22              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| K1 24 24           | 600            | 600            | 573                         | 937                         | 1446                        | 2006                        | 26              | 2 1/8" or 2 5/8"               | 27 1/2"                                          |
| K1 24 28           | 600            | 700            | 669                         | 1094                        | 1688                        | 2341                        | 30              | 2 1/8" or 2 5/8"               | 31 1/2"                                          |
| K1 24 32           | 600            | 800            | 764                         | 1250                        | 1929                        | 2675                        | 35              | 2 1/8" or 2 5/8"               | 35 1/2"                                          |
| K1 24 36           | 600            | 900            | 859                         | 1406                        | 2169                        | 3009                        | 39              | 2 1/8" or 2 5/8"               | 39 3/8"                                          |
| K1 24 40           | 600            | 1000           | 955                         | 1563                        | 2411                        | 3344                        | 43              | 2 1/8" or 2 5/8"               | 43 1/4"                                          |
| K1 24 44           | 600            | 1100           | 1050                        | 1719                        | 2652                        | 3678                        | 48              | 2 1/8" or 2 5/8"               | 47 1/4"                                          |
| K1 24 48           | 600            | 1200           | 1146                        | 1875                        | 2893                        | 4013                        | 52              | 2 1/8" or 2 5/8"               | 51 1/4"                                          |
| K1 24 55           | 600            | 1400           | 1337                        | 2187                        | 3375                        | 4681                        | 61              | 2 1/8" or 2 5/8"               | 59"                                              |
| K1 24 64           | 600            | 1600           | 1528                        | 2500                        | 3857                        | 5350                        | 69              | 2 1/8" or 2 5/8"               | 67"                                              |
| K1 24 72           | 600            | 1800           | 1719                        | 2813                        | 4340                        | 6019                        | 78              | 2 1/8" or 2 5/8"               | 74 3/4"                                          |
| K1 24 80           | 600            | 2000           | 1910                        | 3125                        | 4822                        | 6688                        | 87              | 2 1/8" or 2 5/8"               | 82 5/8"                                          |
| K1 24 86           | 600            | 2200           | 2101                        | 3437                        | 5304                        | 7356                        | 95              | 2 1/8" or 2 5/8"               | 90 1/2"                                          |
| K1 24 94           | 600            | 2400           | 2292                        | 3750                        | 5786                        | 8025                        | 104             | 2 1/8" or 2 5/8"               | 98 1/2"                                          |
| K1 24 100          | 600            | 2600           | 2483                        | 4063                        | 6268                        | 8694                        | 113             | 2 1/8" or 2 5/8"               | 106 1/4"                                         |
| K1 24 110          | 600            | 2800           | 2674                        | 4375                        | 6751                        | 9363                        | 121             | 2 1/8" or 2 5/8"               | 114 1/8"                                         |
| K1 24 120          | 600            | 3000           | 2864                        | 4687                        | 7232                        | 10031                       | 130             | 2 1/8" or 2 5/8"               | 122"                                             |
| K1 28 16           | 700            | 400            | 435                         | 712                         | 1099                        | 1524                        | 20              | 2 1/8" or 2 5/8"               | 19 5/8"                                          |
| K1 28 20           | 700            | 500            | 544                         | 891                         | 1374                        | 1906                        | 25              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| K1 28 24           | 700            | 600            | 653                         | 1069                        | 1649                        | 2287                        | 30              | 2 1/8" or 2 5/8"               | 27 1/2"                                          |
| K1 28 28           | 700            | 700            | 762                         | 1247                        | 1924                        | 2668                        | 35              | 2 1/8" or 2 5/8"               | 31 1/2"                                          |
| K1 28 32           | 700            | 800            | 871                         | 1425                        | 2198                        | 3049                        | 40              | 2 1/8" or 2 5/8"               | 35 1/2"                                          |
| K1 28 36           | 700            | 900            | 980                         | 1603                        | 2473                        | 3431                        | 46              | 2 1/8" or 2 5/8"               | 39 3/8"                                          |
| K1 28 48           | 700            | 1200           | 1304                        | 2133                        | 3298                        | 4574                        | 60              | 2 1/8" or 2 5/8"               | 51 1/4"                                          |

### K1 Single Panel

\*\*Rough in measurements based on using Herz minisets (VA-1773484C, VA-1773485P) V-CROSSH16C or P, V-CHROMELSC or P and V-CHROMETRVSETC or P.

- Deduct 1/2" total if using Herz valve sets, items: 3, 7, 8, 9, 10, 11, 12 or items 26, 31 and 36 used as a pair
- WE RECOMMEND USING OUR RADIATOR VALVES OR CONNECTORS TO ALL OUR RADIATORS AND TOWEL WARMERS. ALL STELRAD RADIATORS AND TOWEL WARMERS HAVE A BSP THREAD AND NOT NPT
- J-Brackets not an option for K1 or S1 models



## 6 Stelrad K2 Softline Compact Radiator Sizes and Technical Data

| PART #<br>(Inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>100 °F AWT | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | Rough-In from<br>finished wall | Rough-In distance<br>apart centre to<br>centre** |
|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--------------------------------|--------------------------------------------------|
| K2 08 20           | 200            | 500            | 413                         | 676                         | 1053                        | 1449                        | 15              | 3" or 3 3/4"                   | 23 3/4"                                          |
| K2 08 24           | 200            | 600            | 496                         | 812                         | 1264                        | 1740                        | 17              | 3" or 3 3/4"                   | 27 1/2"                                          |
| K2 08 32           | 200            | 800            | 662                         | 1083                        | 1685                        | 2320                        | 22              | 3" or 3 3/4"                   | 35 1/2"                                          |
| K2 08 36           | 200            | 900            | 744                         | 1218                        | 1899                        | 2610                        | 25              | 3" or 3 3/4"                   | 39 3/8"                                          |
| K2 08 40           | 200            | 1000           | 826                         | 1352                        | 2107                        | 2899                        | 27              | 3" or 3 3/4"                   | 43 1/4"                                          |
| K2 08 48           | 200            | 1200           | 993                         | 1624                        | 2528                        | 3480                        | 31              | 3" or 3 3/4"                   | 51 1/4"                                          |
| K2 08 60           | 200            | 1500           | 1239                        | 2028                        | 3160                        | 4348                        | 38              | 3" or 3 3/4"                   | 63"                                              |
| K2 08 72           | 200            | 1800           | 1489                        | 2436                        | 3791                        | 5220                        | 45              | 3" or 3 3/4"                   | 74 3/4"                                          |
| K2 08 80           | 200            | 2000           | 1652                        | 2703                        | 4213                        | 5797                        | 49              | 3" or 3 3/4"                   | 82 5/8"                                          |
| K2 08 98           | 200            | 2500           | 2064                        | 3378                        | 5264                        | 7244                        | 60              | 3" or 3 3/4"                   | 102 3/8"                                         |
| K2 08 120          | 200            | 3000           | 2477                        | 4054                        | 6317                        | 8693                        | 72              | 3" or 3 3/4"                   | 122"                                             |
| K2 12 20           | 300            | 500            | 478                         | 783                         | 1208                        | 1675                        | 18              | 3" or 3 1/2"                   | 23 3/4"                                          |
| K2 12 24           | 300            | 600            | 574                         | 940                         | 1452                        | 2010                        | 22              | 3" or 3 1/2"                   | 27 1/2"                                          |
| K2 12 32           | 300            | 800            | 766                         | 1253                        | 1936                        | 2680                        | 29              | 3" or 3 1/2"                   | 35 1/2 "                                         |
| K2 12 36           | 300            | 900            | 861                         | 1409                        | 2178                        | 3015                        | 32              | 3" or 3 1/2"                   | 39 3/8"                                          |
| K2 12 40           | 300            | 1000           | 957                         | 1566                        | 2416                        | 3351                        | 37              | 3" or 3 1/2"                   | 43 1/4"                                          |
| K2 12 48           | 300            | 1200           | 1148                        | 1879                        | 2904                        | 4020                        | 43              | 3" or 3 1/2"                   | 51 1/4"                                          |
| K2 12 60           | 300            | 1500           | 1435                        | 2349                        | 3624                        | 5026                        | 55              | 3" or 3 1/2"                   | 63"                                              |
| K2 12 72           | 300            | 1800           | 1723                        | 2819                        | 4356                        | 6030                        | 65              | 3" or 3 1/2"                   | 74 3/4"                                          |
| K2 12 80           | 300            | 2000           | 1914                        | 3131                        | 4831                        | 6701                        | 74              | 3" or 3 1/2"                   | 82 5/8"                                          |
| K2 12 98           | 300            | 2500           | 2392                        | 3914                        | 6039                        | 8376                        | 92              | 3" or 3 1/2"                   | 102 3/8"                                         |
| K2 12 120          | 300            | 3000           | 2870                        | 4697                        | 7247                        | 10052                       | 111             | 3" or 3 1/2"                   | 122"                                             |
| K2 18 16           | 450            | 400            | 534                         | 874                         | 1349                        | 1871                        | 23              | 3" or 3 1/2"                   | 19 5/8"                                          |
| K2 18 20           | 450            | 500            | 668                         | 1093                        | 1686                        | 2339                        | 28              | 3" or 3 1/2"                   | 23 3/4"                                          |
| K2 18 24           | 450            | 600            | 801                         | 1311                        | 2024                        | 2807                        | 34              | 3" or 3 1/2"                   | 27 1/2"                                          |
| K2 18 28           | 450            | 700            | 935                         | 1530                        | 2361                        | 3274                        | 40              | 3" or 3 1/2"                   | 31 1/2"                                          |
| K2 18 32           | 450            | 800            | 1069                        | 1749                        | 2698                        | 3742                        | 46              | 3" or 3 1/2"                   | 35 1/2"                                          |
| K2 18 36           | 450            | 900            | 1202                        | 1967                        | 3035                        | 4210                        | 51              | 3" or 3 1/2"                   | 39 3/8"                                          |
| K2 18 40           | 450            | 1000           | 1336                        | 2186                        | 3373                        | 4678                        | 57              | 3" or 3 1/2"                   | 43 1/4"                                          |
| K2 18 44           | 450            | 1100           | 1470                        | 2405                        | 3710                        | 5146                        | 63              | 3" or 3 1/2"                   | 47 1/4"                                          |
| K2 18 48           | 450            | 1200           | 1603                        | 2623                        | 4047                        | 5613                        | 68              | 3" or 3 1/2"                   | 51 1/4"                                          |
| K2 18 55           | 450            | 1400           | 1870                        | 3060                        | 4722                        | 6549                        | 80              | 3" or 3 1/2"                   | 59"                                              |
| K2 18 64           | 450            | 1600           | 2138                        | 3498                        | 5397                        | 7485                        | 91              | 3" or 3 1/2"                   | 67"                                              |
| K2 18 72           | 450            | 1800           | 2404                        | 3934                        | 6071                        | 8420                        | 103             | 3" or 3 1/2"                   | 74 3/4"                                          |
| K2 18 80           | 450            | 2000           | 2672                        | 4372                        | 6746                        | 9356                        | 114             | 3" or 3 1/2"                   | 82 5/8"                                          |
| K2 18 86           | 450            | 2200           | 2939                        | 4809                        | 7420                        | 10291                       | 125             | 3" or 3 1/2"                   | 90 1/2"                                          |
| K2 18 94           | 450            | 2400           | 3206                        | 5246                        | 8095                        | 11227                       | 137             | 3" or 3 1/2"                   | 98 1/2"                                          |
| K2 18 100          | 450            | 2600           | 3473                        | 5683                        | 8769                        | 12162                       | 148             | 3" or 3 1/2"                   | 106 1/4"                                         |
| K2 18 110          | 450            | 2800           | 3740                        | 6120                        | 9444                        | 13098                       | 160             | 3" or 3 1/2"                   | 114 1/8"                                         |
| K2 18 120          | 450            | 3000           | 4008                        | 6558                        | 10119                       | 14034                       | 171             | 3"                             | 122"                                             |

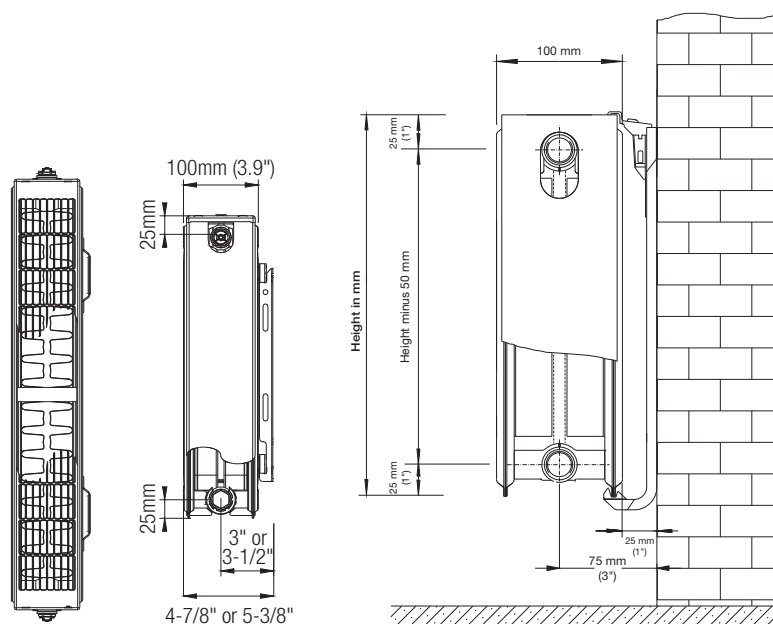
AWT = Average Water Temperature

## Stelrad K2 Softline Compact Radiator Sizes and Technical Data

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| PART #<br>(Inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>100 °F AWT | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | Rough-In from<br>finished wall | Rough-In distance<br>apart centre to<br>centre** |
|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--------------------------------|--------------------------------------------------|
| K2 24 16           | 600            | 400            | 675                         | 1104                        | 1704                        | 2364                        | 31              | 3" or 3 1/2"                   | 19 5/8"                                          |
| K2 24 20           | 600            | 500            | 844                         | 1381                        | 2131                        | 2955                        | 39              | 3" or 3 1/2"                   | 23 3/4"                                          |
| K2 24 24           | 600            | 600            | 1013                        | 1657                        | 2557                        | 3546                        | 46              | 3" or 3 1/2"                   | 27 1/2"                                          |
| K2 24 28           | 600            | 700            | 1181                        | 1933                        | 2983                        | 4137                        | 54              | 3" or 3 1/2"                   | 31 1/2"                                          |
| K2 24 32           | 600            | 800            | 1350                        | 2209                        | 3409                        | 4728                        | 62              | 3" or 3 1/2"                   | 35 1/2"                                          |
| K2 24 36           | 600            | 900            | 1519                        | 2485                        | 3835                        | 5319                        | 69              | 3" or 3 1/2"                   | 39 3/8"                                          |
| K2 24 40           | 600            | 1000           | 1688                        | 2762                        | 4261                        | 5910                        | 77              | 3" or 3 1/2"                   | 43 1/4"                                          |
| K2 24 44           | 600            | 1100           | 1856                        | 3038                        | 4687                        | 6501                        | 85              | 3" or 3 1/2"                   | 47 1/4"                                          |
| K2 24 48           | 600            | 1200           | 2025                        | 3314                        | 5113                        | 7092                        | 92              | 3" or 3 1/2"                   | 51 1/4"                                          |
| K2 24 55           | 600            | 1400           | 2362                        | 3866                        | 5965                        | 8273                        | 108             | 3" or 3 1/2"                   | 59"                                              |
| K2 24 64           | 600            | 1600           | 2700                        | 4418                        | 6817                        | 9455                        | 123             | 3" or 3 1/2"                   | 67"                                              |
| K2 24 72           | 600            | 1800           | 3038                        | 4971                        | 7669                        | 10637                       | 139             | 3" or 3 1/2"                   | 74 3/4"                                          |
| K2 24 80           | 600            | 2000           | 3375                        | 5523                        | 8521                        | 11819                       | 154             | 3" or 3 1/2"                   | 82 5/8"                                          |
| K2 24 86           | 600            | 2200           | 3713                        | 6075                        | 9374                        | 13001                       | 169             | 3" or 3 1/2"                   | 90 1/2"                                          |
| K2 24 94           | 600            | 2400           | 4050                        | 6628                        | 10226                       | 14183                       | 185             | 3" or 3 1/2"                   | 98 1/2"                                          |
| K2 24 100          | 600            | 2600           | 4388                        | 7180                        | 11078                       | 15365                       | 200             | 3" or 3 1/2"                   | 106 1/4"                                         |
| K2 24 110          | 600            | 2800           | 4725                        | 7732                        | 11930                       | 16547                       | 216             | 3" or 3 1/2"                   | 114 1/8"                                         |
| K2 24 120          | 600            | 3000           | 5063                        | 8284                        | 12783                       | 17729                       | 231             | 3" or 3 1/2"                   | 122"                                             |
| K2 28 16           | 700            | 400            | 764                         | 1250                        | 1929                        | 2676                        | 36              | 3" or 3 1/2"                   | 19 5/8"                                          |
| K2 28 20           | 700            | 500            | 955                         | 1563                        | 2412                        | 3345                        | 45              | 3" or 3 1/2"                   | 23 3/4"                                          |
| K2 28 24           | 700            | 600            | 1146                        | 1876                        | 2895                        | 4015                        | 53              | 3" or 3 1/2"                   | 27 1/2"                                          |
| K2 28 28           | 700            | 700            | 1338                        | 2189                        | 3377                        | 4684                        | 62              | 3" or 3 1/2"                   | 31 1/2"                                          |
| K2 28 32           | 700            | 800            | 1529                        | 2501                        | 3860                        | 5353                        | 71              | 3" or 3 1/2"                   | 35 1/2"                                          |
| K2 28 36           | 700            | 900            | 1720                        | 2815                        | 4343                        | 6024                        | 80              | 3" or 3 1/2"                   | 39 3/8"                                          |
| K2 28 48           | 700            | 1200           | 2293                        | 3752                        | 5790                        | 8030                        | 106             | 3" or 3 1/2"                   | 51 1/4"                                          |

### K2 Double Panel



\*\*Rough in measurements based on using Herz minisets (VA-1773484C, VA-1773485P), V-CROSSH16C or P, V-CHROMELSC or P and V-CHROMETRVSETC or P.

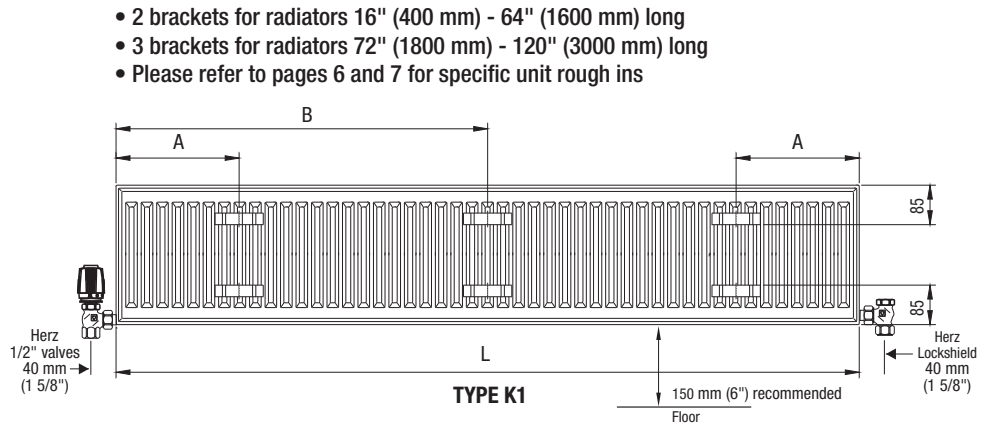
- Deduct ½" total if using Herz valve sets, items: 3, 7, 8, 9, 10, 11, 12 or items 26, 31 and 36 used as a pair
- WE RECOMMEND USING OUR RADIATOR VALVES OR CONNECTORS TO ALL OUR RADIATORS AND TOWEL WARMERS. ALL STELRAD RADIATORS AND TOWEL WARMERS HAVE A BSP THREAD AND NOT NPT
- J-Brackets (Rough-in 3" from finished wall) available for all sizes of the K2 and S2 models

J-Bracket

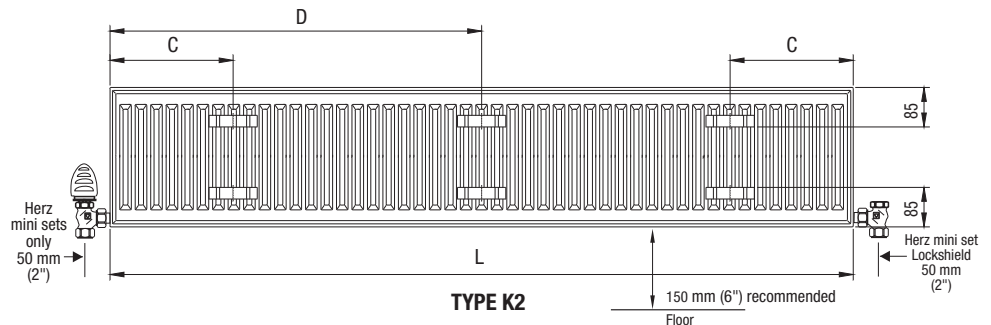
## 8 Stelrad Softline Compact Radiator K1 and K2 Technical Data

### SOFTLINE COMPACT LUG POSITIONS

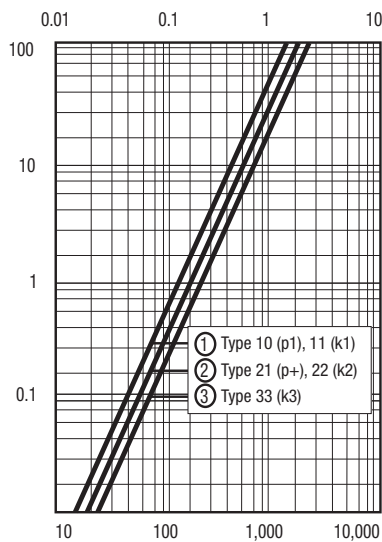
| K1          |      |          |          |            |
|-------------|------|----------|----------|------------|
| L           | A    |          | B        |            |
|             | (mm) | (Inches) | (mm)     | (Inches)   |
| 400         | 117  | 4.625    | -        | -          |
| 500 - 1100  | 150  | 6        | -        | -          |
| 1200 - 1600 | 150  | 6        | -        | -          |
| 1800 - 3000 | 150  | 6        | L/2 + 17 | L/2 + .625 |



| K2          |      |          |       |
|-------------|------|----------|-------|
| L           | C    |          | D     |
|             | (mm) | (Inches) |       |
| 400         | 133  | 5.25     | -     |
| 500 - 1100  | 133  | 5.25     | -     |
| 1200 - 1600 | 133  | 5.25     | -     |
| 1800 - 3000 | 133  | 5.25     | (L/2) |



### Pressure Drops VALUE KV



FLOWRATE I/h

### Directions for the Metric Pressure Drop Chart based on 160°F supply Temperature

#### STEP 1: Find the flow Rate in GPM

The flow rate is the output of the radiator at 160°F divided by 10,000 = GPM

#### STEP 2: Convert From GPM to L/H

Multiply GPM x 227 = Flow Rate in L/H

#### STEP 3: Find Pressure Drop In kPa

Look up the chart from L/Hr to find the pressure drop in KPA

#### STEP 4: Convert kPa to Feet of Head

Multiply kPa x 0.3346 = Pressure drop in Feet of Head 1bar=33.46 ft/head

#### Example: K2 24 x 24

Output at 160°F is 3546

Flow Rate in GPM = 3546/10000 = .3546GPM

GPM x 227 = litre/hour

.3546 x 227 = 80.49 L/H

80.49 = 0.08 kPa

.08 x .3346 = 0.026768 ft/h

## Stelrad S1 and S2 Style Radiator

9



The Style Radiator offers a modern, sleek design and excellent value while still providing exceptional BTU output. The Style Radiator range is now available in four popular heights and a wide selection of lengths in both the single or double panel. Finished in a powder coated white the radiator comes with hardware pack and wall brackets. Valves sold separately. Ten year warranty on all horizontal Style Radiators.

Model for illustration purposes only. Valves sold separately.

See page 16 for the Style Vertical Radiator, now available in a 12" width.

Assembly required. Please allow 10 to 14 days for delivery. All Style Radiator orders are subject to  
**AN AUTOMATIC 25% RESTOCKING FEE AND A 50% RESTOCKING FEE AFTER 30 DAYS.**

## 10 Stelrad S1 and S2 Style Radiator Sizes and Technical Data

| PART #<br>(Inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>100 °F AWT | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | Rough-In from<br>finished wall | Rough-In distance<br>apart centre to<br>centre** |
|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|--------------------------------|--------------------------------------------------|
| S1 12 20           | 300            | 500            | 219                         | 359                         | 554                         | 768                         | 13              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| S1 12 40           | 300            | 1000           | 438                         | 717                         | 1107                        | 1535                        | 27              | 2 1/8" or 2 5/8"               | 43 1/4"                                          |
| S1 12 60           | 300            | 1500           | 700                         | 1145                        | 1766                        | 2450                        | 40              | 2 1/8" or 2 5/8"               | 63"                                              |
| S1 12 80           | 300            | 2000           | 877                         | 1435                        | 2214                        | 3071                        | 52              | 2 1/8" or 2 5/8"               | 82 5/8"                                          |
| S1 18 20           | 450            | 500            | 324                         | 530                         | 818                         | 1135                        | 19              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| S1 18 24           | 450            | 600            | 389                         | 636                         | 982                         | 1362                        | 24              | 2 1/8" or 2 5/8"               | 27 1/2"                                          |
| S1 18 32           | 450            | 800            | 519                         | 849                         | 1309                        | 1816                        | 32              | 2 1/8" or 2 5/8"               | 35 1/2"                                          |
| S1 18 36           | 450            | 900            | 583                         | 955                         | 1473                        | 2043                        | 37              | 2 1/8" or 2 5/8"               | 39 3/8"                                          |
| S1 18 44           | 450            | 1100           | 713                         | 1166                        | 1800                        | 2496                        | 45              | 2 1/8" or 2 5/8"               | 47 1/4"                                          |
| S1 18 48           | 450            | 1200           | 777                         | 1272                        | 1963                        | 2723                        | 49              | 2 1/8" or 2 5/8"               | 51 1/4"                                          |
| S1 18 64           | 450            | 1600           | 1037                        | 1697                        | 2618                        | 3631                        | 66              | 2 1/8" or 2 5/8"               | 67"                                              |
| S1 18 72           | 450            | 1800           | 1166                        | 1909                        | 2945                        | 4085                        | 73              | 2 1/8" or 2 5/8"               | 74 3/4"                                          |
| S1 24 20           | 600            | 500            | 420                         | 687                         | 1061                        | 1471                        | 28              | 2 1/8" or 2 5/8"               | 23 3/4"                                          |
| S1 24 24           | 600            | 600            | 504                         | 825                         | 1273                        | 1765                        | 33              | 2 1/8" or 2 5/8"               | 27 1/2"                                          |
| S1 24 32           | 600            | 800            | 672                         | 1100                        | 1697                        | 2354                        | 44              | 2 1/8" or 2 5/8"               | 35 1/2"                                          |
| S1 24 36           | 600            | 900            | 756                         | 1237                        | 1908                        | 2647                        | 50              | 2 1/8" or 2 5/8"               | 39 3/8"                                          |
| S1 24 44           | 600            | 1100           | 924                         | 1512                        | 2333                        | 3236                        | 61              | 2 1/8" or 2 5/8"               | 47 1/4"                                          |
| S1 24 48           | 600            | 1200           | 1008                        | 1650                        | 2546                        | 3531                        | 66              | 2 1/8" or 2 5/8"               | 51 1/4"                                          |
| S1 24 64           | 600            | 1600           | 1344                        | 2200                        | 3394                        | 4708                        | 88              | 2 1/8" or 2 5/8"               | 67"                                              |
| S1 24 72           | 600            | 1800           | 1512                        | 2475                        | 3818                        | 5296                        | 100             | 2 1/8" or 2 5/8"               | 74 3/4"                                          |
| S2 08 20           | 200            | 500            | 372                         | 608                         | 948                         | 1304                        | 17              | 3" or 3 3/4"                   | 23 3/4"                                          |
| S2 08 40           | 200            | 1000           | 744                         | 1217                        | 1896                        | 2609                        | 31              | 3" or 3 3/4"                   | 43 1/4"                                          |
| S2 08 60           | 200            | 1500           | 1115                        | 1825                        | 2844                        | 3913                        | 44              | 3" or 3 3/4"                   | 63"                                              |
| S2 08 80           | 200            | 2000           | 1487                        | 2433                        | 3792                        | 5216                        | 56              | 3" or 3 3/4"                   | 82 5/8"                                          |
| S2 12 20           | 300            | 500            | 421                         | 689                         | 1063                        | 1474                        | 27              | 3" or 3 1/2"                   | 23 3/4"                                          |
| S2 12 40           | 300            | 1000           | 842                         | 1378                        | 2126                        | 2949                        | 43              | 3" or 3 1/2"                   | 43 1/4"                                          |
| S2 12 60           | 300            | 1500           | 1263                        | 2066                        | 3188                        | 4422                        | 64              | 3" or 3 1/2"                   | 63"                                              |
| S2 12 80           | 300            | 2000           | 1684                        | 2755                        | 4251                        | 5896                        | 85              | 3" or 3 1/2"                   | 82 5/8"                                          |
| S2 18 20           | 450            | 500            | 588                         | 962                         | 1484                        | 2058                        | 32              | 3" or 3 1/2"                   | 23 3/4"                                          |
| S2 18 24           | 450            | 600            | 705                         | 1154                        | 1781                        | 2470                        | 39              | 3" or 3 1/2"                   | 27 1/2"                                          |
| S2 18 32           | 450            | 800            | 940                         | 1538                        | 2374                        | 3292                        | 52              | 3" or 3 1/2"                   | 35 1/2"                                          |
| S2 18 36           | 450            | 900            | 1058                        | 1731                        | 2671                        | 3704                        | 59              | 3" or 3 1/2"                   | 39 3/8"                                          |
| S2 18 44           | 450            | 1100           | 1293                        | 2116                        | 3265                        | 4528                        | 73              | 3" or 3 1/2"                   | 47 1/4"                                          |
| S2 18 48           | 450            | 1200           | 1410                        | 2308                        | 3561                        | 4939                        | 79              | 3" or 3 1/2"                   | 51 1/4"                                          |
| S2 18 64           | 450            | 1600           | 1881                        | 3078                        | 4749                        | 6586                        | 106             | 3" or 3 1/2"                   | 67"                                              |
| S2 18 72           | 450            | 1800           | 2116                        | 3462                        | 5342                        | 7409                        | 119             | 3" or 3 1/2"                   | 74 3/4"                                          |
| S2 24 20           | 600            | 500            | 743                         | 1215                        | 1875                        | 2600                        | 45              | 3" or 3 1/2"                   | 23 3/4"                                          |
| S2 24 24           | 600            | 600            | 891                         | 1458                        | 2250                        | 3120                        | 53              | 3" or 3 1/2"                   | 27 1/2"                                          |
| S2 24 32           | 600            | 800            | 1188                        | 1944                        | 2999                        | 4160                        | 71              | 3" or 3 1/2"                   | 35 1/2"                                          |
| S2 24 36           | 600            | 900            | 1337                        | 2187                        | 3374                        | 4680                        | 80              | 3" or 3 1/2"                   | 39 3/8"                                          |
| S2 24 44           | 600            | 1100           | 1634                        | 2673                        | 4124                        | 5720                        | 98              | 3" or 3 1/2"                   | 47 1/4"                                          |
| S2 24 48           | 600            | 1200           | 1782                        | 2916                        | 4499                        | 6240                        | 106             | 3" or 3 1/2"                   | 51 1/4"                                          |
| S2 24 64           | 600            | 1600           | 2376                        | 3888                        | 5999                        | 8320                        | 142             | 3" or 3 1/2"                   | 67"                                              |
| S2 24 72           | 600            | 1800           | 2673                        | 4374                        | 6749                        | 9360                        | 161             | 3" or 3 1/2"                   | 74 3/4"                                          |

S1-08 models are discontinued.

\*\*Rough in measurements based on using Herz minisets (VA-1773484C, VA-1773485P), V-CROSSH16C or P, V-CHROMELSC or P and V-CHROMETRSETC or P.

- Deduct ½" total if using Herz valve sets, items: 3, 7, 8, 9, 10, 11, 12 or items 26, 31 and 36 used as a pair.
- WE RECOMMEND USING OUR RADIATOR VALVES OR CONNECTORS TO ALL OUR RADIATORS AND TOWEL WARMERS. ALL STELRAD RADIATORS AND TOWEL WARMERS HAVE A BSP THREAD AND NOT NPT.
- Floor brackets not available for S1 and S2 units

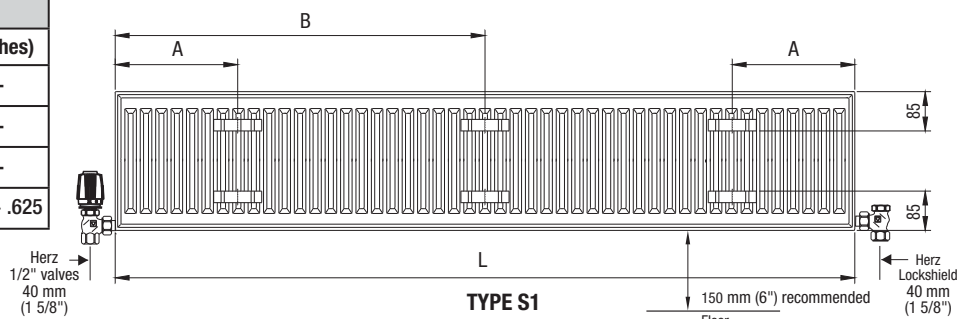
## Stelrad Style S1 and S2 Rough-In and Technical Data

11

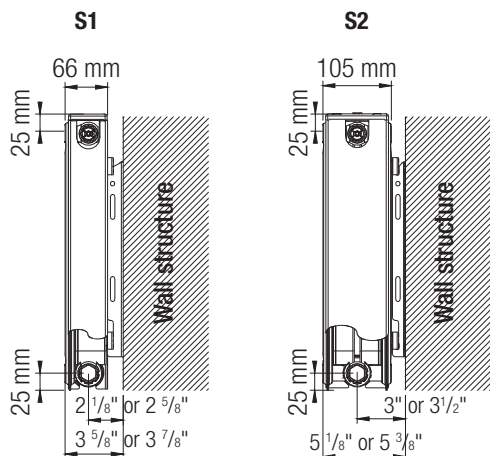
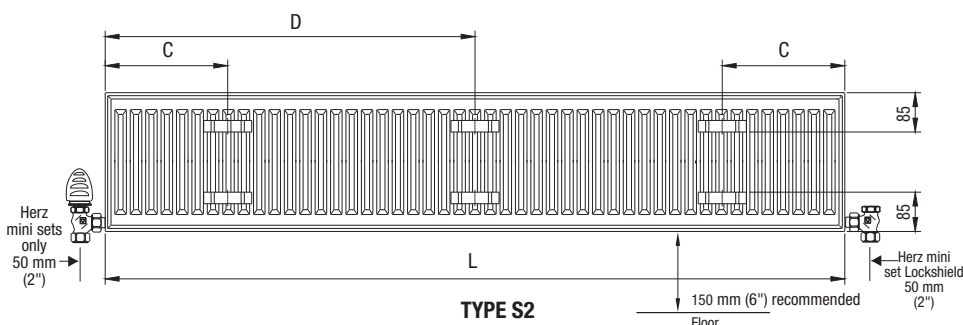
### STYLE COMPACT LUG POSITIONS

| L           | S1   |          |          |            |
|-------------|------|----------|----------|------------|
|             | A    |          | B        |            |
|             | (mm) | (Inches) | (mm)     | (Inches)   |
| 400         | 117  | 4.625    | -        | -          |
| 500 - 1100  | 150  | 6        | -        | -          |
| 1200 - 1600 | 150  | 6        | -        | -          |
| 1800 - 2000 | 150  | 6        | L/2 + 17 | L/2 + .625 |

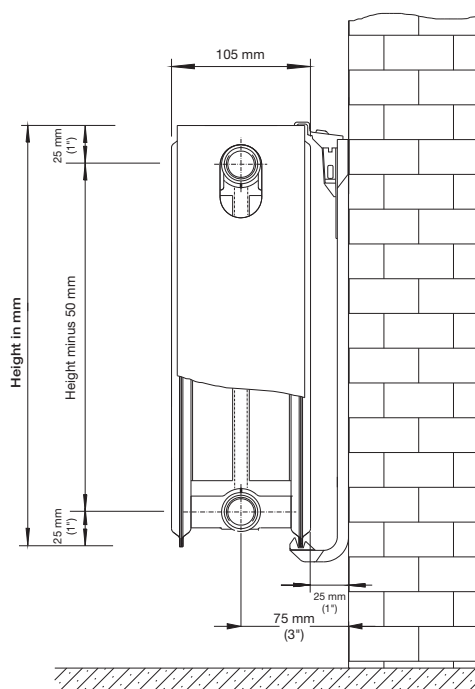
- 2 brackets for radiators 16" (400 mm) - 64" (1600 mm) long
- 3 brackets for radiators 72" (1800 mm) - 80" (2000 mm) long
- Please refer to page 10 for specific unit rough ins



| L           | S2   |          |       |
|-------------|------|----------|-------|
|             | C    | D        |       |
|             | (mm) | (Inches) |       |
| 400         | 133  | 5.25     | -     |
| 500 - 1100  | 133  | 5.25     | -     |
| 1200 - 1600 | 133  | 5.25     | -     |
| 1800 - 2000 | 133  | 5.25     | (L/2) |



With L Bracket



With J Bracket  
(S2 model only)

## 12 Classic Column Radiators



The column radiator is available in three different heights with either three or four bars and comes in a variety of lengths. Please note the last set of numbers in the part# denotes the number of sections NOT the finished length in inches. Each Classic Column comes with wall brackets and hardware pack. Floor brackets are available. See product # V-CLFS on page 29. Columns require a 1/2" BSP connection, valves sold separately. Warranty on Column Radiators is 5 years.

**Not suitable for Glycol systems.**

### Non Scratch Bushing Wrench

To be used with classic column units only



V-CCWRENCH  
Item number 53 on page 29



See page 32 to calculate the heat output from existing cast iron column and tubular radiators.

## Classic Column Radiator Sizes and Technical Data

13

IMPORTANT: Please note the last set of numbers in the PART# does NOT represent the length in inches but number of sections.  
Each section approximately 1.77 inches. For example C12-03-09 = 15.94 inches length.

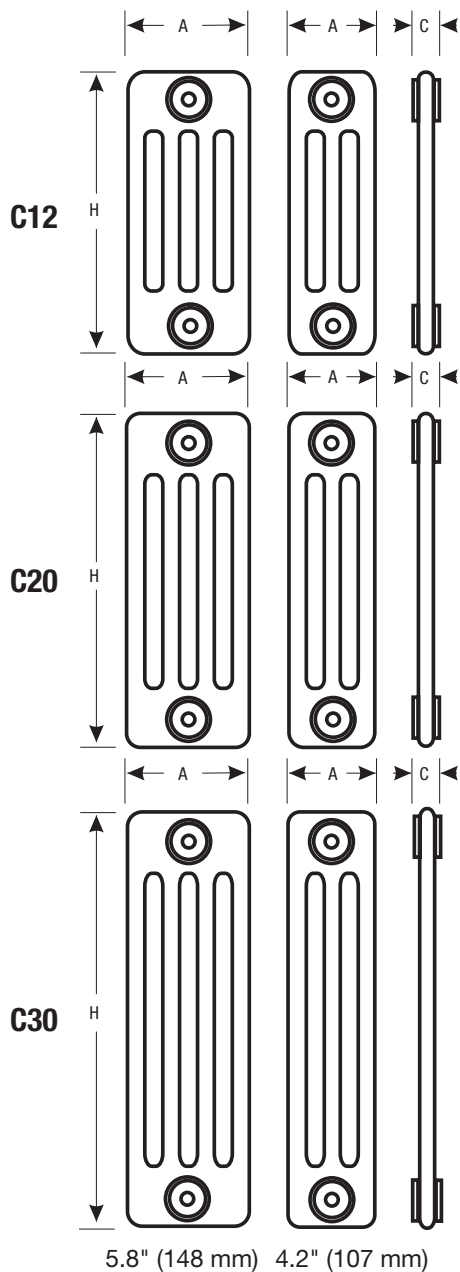
| PART #<br>*H x B x S | HEIGHT<br>(inches) | LENGTH<br>(inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | STOCK<br>STATUS |
|----------------------|--------------------|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-----------------|
| C12 3 09             | 11.8               | 15.94              | 300            | 405            | 446                         | 688                         | 954                         | 15              | stock           |
| C12 3 13             | 11.8               | 23.03              | 300            | 585            | 644                         | 994                         | 1378                        | 22              | stock           |
| C12 3 18             | 11.8               | 31.88              | 300            | 810            | 892                         | 1376                        | 1909                        | 30              | stock           |
| C12 3 22             | 11.8               | 38.97              | 300            | 990            | 1090                        | 1682                        | 2333                        | 37              | stock           |
| C12 3 27             | 11.8               | 47.83              | 300            | 1215           | 1338                        | 2064                        | 2863                        | 46              | stock           |
| C12 3 31             | 11.8               | 54.92              | 300            | 1395           | 1536                        | 2370                        | 3287                        | 53              | stock           |
| C20 3 09             | 19.7               | 15.94              | 500            | 405            | 734                         | 1132                        | 1570                        | 24              | stock           |
| C20 3 13             | 19.7               | 23.03              | 500            | 585            | 1060                        | 1635                        | 2268                        | 34              | stock           |
| C20 3 18             | 19.7               | 31.88              | 500            | 810            | 1467                        | 2264                        | 3140                        | 48              | stock           |
| C20 3 22             | 19.7               | 38.97              | 500            | 990            | 1794                        | 2767                        | 3838                        | 58              | stock           |
| C20 3 27             | 19.7               | 47.83              | 500            | 1215           | 2201                        | 3396                        | 4710                        | 71              | stock           |
| C20 3 31             | 19.7               | 54.92              | 500            | 1395           | 2527                        | 3899                        | 5408                        | 82              | stock           |
| C20 3 36             | 19.7               | 63.77              | 500            | 1620           | 2935                        | 4528                        | 6280                        | 96              | stock           |
| C20 3 40             | 19.7               | 70.86              | 500            | 1800           | 3261                        | 5031                        | 6978                        | 106             | stock           |
| C30 3 09             | 29.5               | 15.94              | 750            | 405            | 1079                        | 1665                        | 2313                        | 34              | stock           |
| C30 3 13             | 29.5               | 23.03              | 750            | 585            | 1558                        | 2405                        | 3341                        | 49              | stock           |
| C30 3 18             | 29.5               | 31.88              | 750            | 810            | 2158                        | 3330                        | 4618                        | 68              | stock           |
| C30 3 22             | 29.5               | 38.97              | 750            | 990            | 2637                        | 4069                        | 5644                        | 83              | stock           |
| C30 3 27             | 29.5               | 47.83              | 750            | 1215           | 3236                        | 4994                        | 6926                        | 102             | stock           |
| C30 3 31             | 29.5               | 54.92              | 750            | 1395           | 3716                        | 5735                        | 7967                        | 118             | stock           |
| C30 3 36             | 29.5               | 63.77              | 750            | 1620           | 4316                        | 6660                        | 9236                        | 134             | stock           |
| C30 3 40             | 29.5               | 70.86              | 750            | 1800           | 4795                        | 7399                        | 10262                       | 151             | stock           |

| PART #<br>*H x B x S | HEIGHT<br>(inches) | LENGTH<br>(inches) | HEIGHT<br>(mm) | LENGTH<br>(mm) | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lbs) | STOCK<br>STATUS |
|----------------------|--------------------|--------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-----------------|
| C12 4 09             | 11.8               | 15.94              | 300            | 405            | 575                         | 888                         | 1231                        | 22              | stock           |
| C12 4 13             | 11.8               | 23.03              | 300            | 585            | 831                         | 1282                        | 1778                        | 31              | stock           |
| C12 4 18             | 11.8               | 31.88              | 300            | 810            | 1151                        | 1775                        | 2462                        | 43              | stock           |
| C12 4 22             | 11.8               | 38.97              | 300            | 990            | 1407                        | 2170                        | 3010                        | 53              | stock           |
| C12 4 27             | 11.8               | 47.83              | 300            | 1215           | 1726                        | 2663                        | 3694                        | 65              | stock           |
| C12 4 31             | 11.8               | 54.92              | 300            | 1395           | 1982                        | 3058                        | 4242                        | 74              | stock           |
| C20 4 09             | 19.7               | 15.94              | 500            | 405            | 935                         | 1443                        | 2001                        | 33              | stock           |
| C20 4 13             | 19.7               | 23.03              | 500            | 585            | 1350                        | 2084                        | 2890                        | 47              | stock           |
| C20 4 18             | 19.7               | 31.88              | 500            | 810            | 1870                        | 2885                        | 4002                        | 65              | stock           |
| C20 4 22             | 19.7               | 38.97              | 500            | 990            | 2286                        | 3526                        | 4891                        | 80              | stock           |
| C20 4 27             | 19.7               | 47.83              | 500            | 1215           | 2805                        | 4328                        | 6003                        | 98              | stock           |
| C20 4 31             | 19.7               | 54.92              | 500            | 1395           | 3221                        | 4970                        | 6893                        | 113             | stock           |
| C20 4 36             | 19.7               | 63.77              | 500            | 1620           | 3740                        | 5772                        | 8004                        | 132             | stock           |
| C20 4 40             | 19.7               | 70.86              | 500            | 1800           | 4156                        | 6413                        | 8894                        | 145             | stock           |
| C30 4 09             | 29.5               | 15.94              | 750            | 405            | 1367                        | 2106                        | 2925                        | 45              | stock           |
| C30 4 13             | 29.5               | 23.03              | 750            | 585            | 1975                        | 3042                        | 4225                        | 65              | stock           |
| C30 4 18             | 29.5               | 31.88              | 750            | 810            | 2733                        | 4216                        | 5848                        | 91              | stock           |
| C30 4 22             | 29.5               | 38.97              | 750            | 990            | 3340                        | 5154                        | 7149                        | 112             | stock           |
| C30 4 27             | 29.5               | 47.83              | 750            | 1215           | 4100                        | 6326                        | 8774                        | 137             | stock           |
| C30 4 31             | 29.5               | 54.92              | 750            | 1395           | 4710                        | 7254                        | 10075                       | 158             | stock           |
| C30 4 36             | 29.5               | 63.77              | 750            | 1620           | 5466                        | 8432                        | 11696                       | 182             | stock           |
| C30 4 40             | 29.5               | 70.86              | 750            | 1800           | 6074                        | 9372                        | 12998                       | 203             | stock           |

\*H x B x S:  
H = Height in approximate inches  
B = Number of Bars  
S = Number of Sections

Assembly required. Please allow 10 to 14 days for delivery. All Column Radiator orders are subject to  
**AN AUTOMATIC 25% RESTOCKING FEE AND A 50% RESTOCKING FEE AFTER 30 DAYS.**

## 14 Classic Column Radiator Rough-In Dimensions



| C12      | HEIGHT<br>(mm)<br>H | DEPTH<br>(mm)<br>A | WIDTH<br>(mm)<br>C | WEIGHT<br>(PER SECTION)<br>KG'S | WATER CONTENT<br>(PER SECTION)<br>LITRES |
|----------|---------------------|--------------------|--------------------|---------------------------------|------------------------------------------|
| 3 COLUMN | 300                 | 107                | 45                 | 0.77                            | 0.67                                     |
| 4 COLUMN | 300                 | 148                | 45                 | 1.09                            | 0.9                                      |

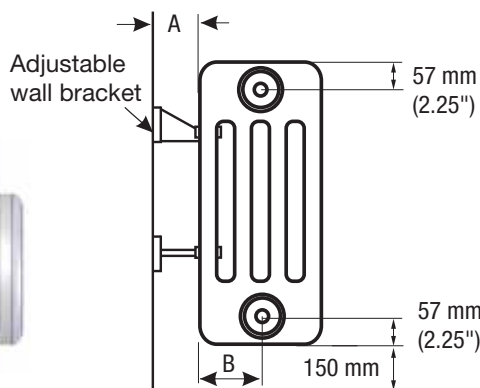
| C20      | HEIGHT<br>(mm)<br>H | DEPTH<br>(mm)<br>A | WIDTH<br>(mm)<br>C | WEIGHT<br>(PER SECTION)<br>KG'S | WATER CONTENT<br>(PER SECTION)<br>LITRES |
|----------|---------------------|--------------------|--------------------|---------------------------------|------------------------------------------|
| 3 COLUMN | 500                 | 107                | 45                 | 1.2                             | 0.91                                     |
| 4 COLUMN | 500                 | 148                | 45                 | 1.65                            | 1.22                                     |



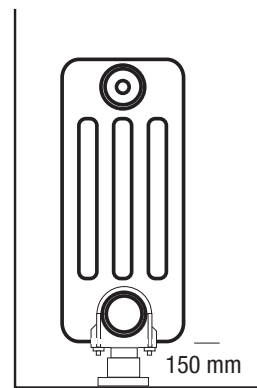
| C30      | HEIGHT<br>(mm)<br>H | DEPTH<br>(mm)<br>A | WIDTH<br>(mm)<br>C | WEIGHT<br>(PER SECTION)<br>KG'S | WATER CONTENT<br>(PER SECTION)<br>LITRES |
|----------|---------------------|--------------------|--------------------|---------------------------------|------------------------------------------|
| 3 COLUMN | 750                 | 107                | 45                 | 1.72                            | 1.21                                     |
| 4 COLUMN | 750                 | 148                | 45                 | 2.31                            | 1.62                                     |

### Typical Wall Bracket Installation

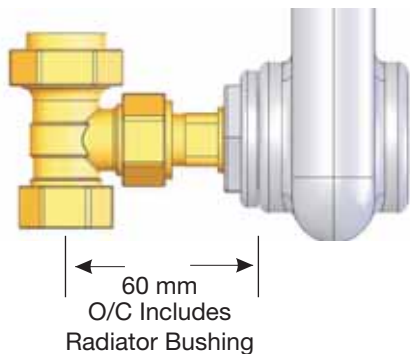
### Optional Floor Standing Brackets



A= 30 or 40 mm  
B= 3 COL- 53 mm  
4 COL- 74 mm

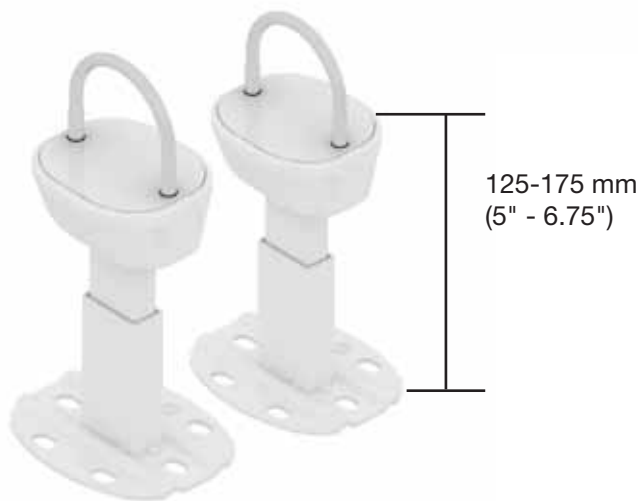
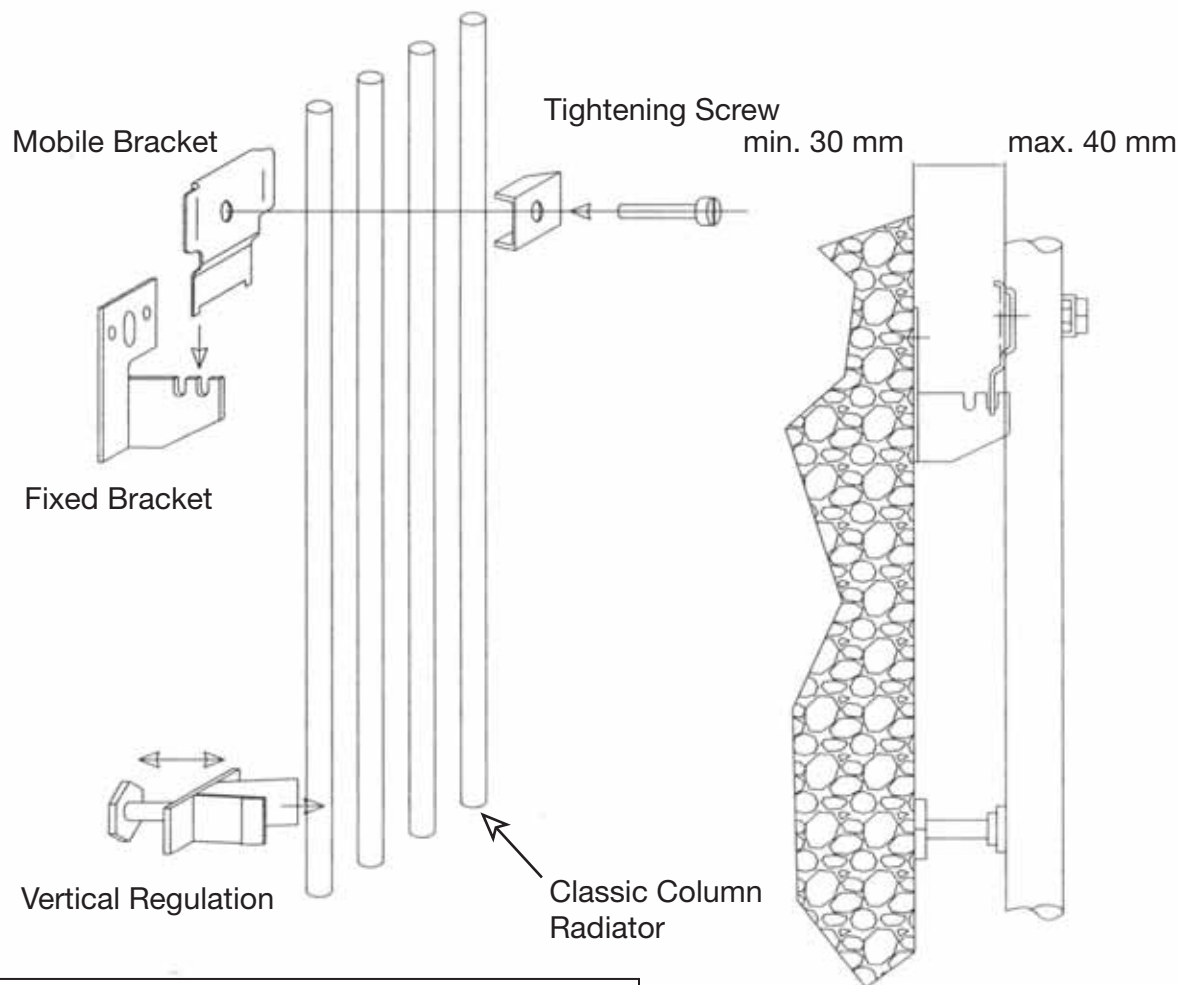


Part # V-CLFS (sold in pairs)



## Classic Column Wall Bracket Installation

15



Column Radiator Floor Brackets see item 52 on page 29

**Part # V-CLFS**

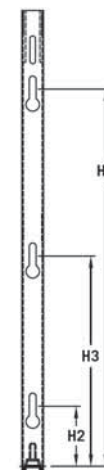
### Number of Wall or Floor Brackets Required

| NUMBER OF SECTIONS | NUMBER OF BRACKETS |
|--------------------|--------------------|
| Up to 17           | 2                  |
| 18 - 31            | 3                  |
| 32 - 40            | 4                  |

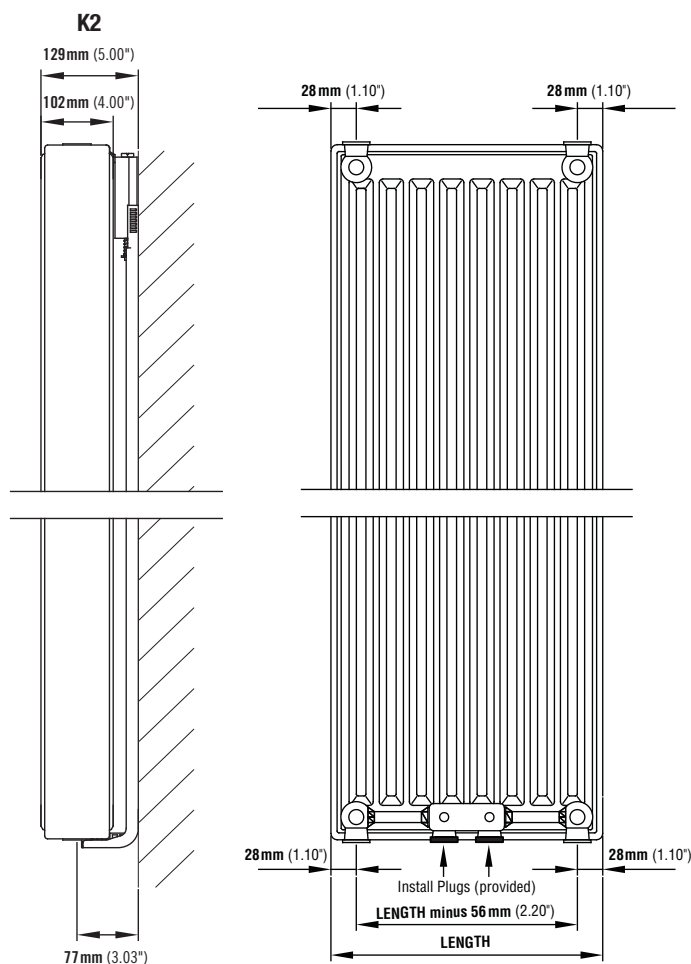
## 16 K2 Vertex Vertical Radiator and Style Vertical Radiator

### Vertex and Style Mounting brackets

| Height |       | H2 |      | H3   |       | H4   |       |
|--------|-------|----|------|------|-------|------|-------|
| mm     | in    | mm | in   | mm   | in    | mm   | in    |
| 1800   | 70.87 | 70 | 2.75 | 1115 | 43.89 | 1615 | 63.58 |
| 2200   | 86.61 | 70 | 2.75 | 1315 | 51.77 | 2015 | 79.33 |



### Wall mounting Information for the 2200 and 1800mm



Vertex D-VK2-12x72



Style D-VSK2-16x72

Warranty 5 years on all vertical models.

| PART #       | LENGTH (mm) | HEIGHT (mm) | OUTPUT btu/hr 100 °F AWT | OUTPUT btu/hr 120 °F AWT | OUTPUT btu/hr 140 °F AWT | OUTPUT btu/hr 160 °F AWT | WEIGHT (Lbs) | PIPE O/C (mm) | STOCK STATUS |
|--------------|-------------|-------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------|---------------|--------------|
| D-VK2-12X72  | 300         | 1800        | 1155                     | 1890                     | 2946                     | 4054                     | 70           | 244           | stock        |
| D-VK2-12X86  | 300         | 2200        | 1352                     | 2213                     | 3448                     | 4729                     | 84           | 244           | stock        |
| D-VK2-16X72  | 400         | 1800        | 1546                     | 2529                     | 3941                     | 5405                     | 93           | 344           | stock        |
| D-VK2-16X86  | 400         | 2200        | 1803                     | 2951                     | 4598                     | 6305                     | 112          | 344           | stock        |
| D-VSK2-12X72 | 300         | 1800        | 1076                     | 1761                     | 2744                     | 3777                     | 72           | 244           | stock        |
| D-VSK2-12X86 | 300         | 2200        | 1238                     | 2026                     | 3158                     | 4330                     | 86           | 244           | stock        |
| D-VSK2-16X72 | 400         | 1800        | 1440                     | 2357                     | 3672                     | 5036                     | 95           | 344           | stock        |
| D-VSK2-16X86 | 400         | 2200        | 1651                     | 2702                     | 4210                     | 5773                     | 114          | 344           | stock        |

## Ladder Rail Towel Warmers

17



D-TCC 30x24

Must only be installed on a closed non potable water system. Warranty 5 years on all ladder rails.



D-TCW 30x24



D-TSC 48x20

### Legend for Codes:

CC = Curved Chrome  
CW = Curved White  
SC = Straight Chrome  
SW = Straight White

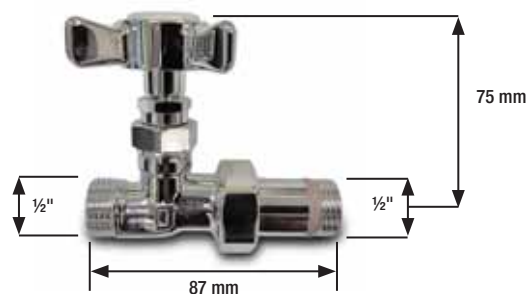
Valves are not available as shown.



Optional Manual Cross Head Valves in straight and angle:  
PART# V-CROSSH16 Angle  
V-CROSSH16S Straight

Available for Copper, PEX, PEX-AL. See page 23.

### Manual Straight Cross Head Valves



Copper and Pex Connectors not shown

## 18 Ladder Rail Towel Warmers Rough-In and Technical Data

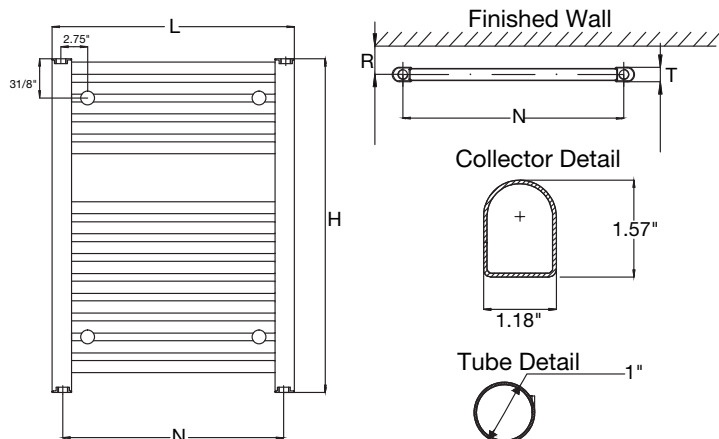
| DESCRIPTION                 | MODEL       | HEIGHT<br>mm (inches) | LENGTH<br>mm (inches) | OUTPUT btu/hr<br>120 °F AWT | OUTPUT btu/hr<br>140 °F AWT | OUTPUT btu/hr<br>160 °F AWT | WEIGHT<br>(Lb.) |
|-----------------------------|-------------|-----------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|
| Ladder Rail Straight White  | D-TSW 27x16 | 678 (27)              | 400 (16)              | 447                         | 691                         | 958                         | 10              |
| Ladder Rail Straight White  | D-TSW 30x20 | 760 (30)              | 500 (20)              | 595                         | 919                         | 1274                        | 13              |
| Ladder Rail Straight White  | D-TSW 30x24 | 760 (30)              | 600 (24)              | 714                         | 1101                        | 1527                        | 16              |
| Ladder Rail Straight White  | D-TSW 48x20 | 1211 (48)             | 500 (20)              | 885                         | 1366                        | 1894                        | 21              |
| Ladder Rail Straight White  | D-TSW 48x24 | 1211 (48)             | 600 (24)              | 1050                        | 1621                        | 2248                        | 24              |
| Ladder Rail Straight White  | D-TSW 69x20 | 1744 (69)             | 500 (20)              | 1306                        | 2015                        | 2795                        | 31              |
| Ladder Rail Straight White  | D-TSW 69x24 | 1744 (69)             | 600 (24)              | 1545                        | 2384                        | 3306                        | 35              |
| Ladder Rail Straight Chrome | D-TSC 27x16 | 678 (27)              | 400 (16)              | 373                         | 576                         | 798                         | 10              |
| Ladder Rail Straight Chrome | D-TSC 30x20 | 760 (30)              | 500 (20)              | 496                         | 766                         | 1062                        | 13              |
| Ladder Rail Straight Chrome | D-TSC 30x24 | 760 (30)              | 600 (24)              | 594                         | 917                         | 1272                        | 16              |
| Ladder Rail Straight Chrome | D-TSC 48x20 | 1211 (48)             | 500 (20)              | 737                         | 1138                        | 1578                        | 21              |
| Ladder Rail Straight Chrome | D-TSC 48x24 | 1211 (48)             | 600 (24)              | 875                         | 1350                        | 1873                        | 25              |
| Ladder Rail Straight Chrome | D-TSC 69x20 | 1744 (69)             | 500 (20)              | 1088                        | 1678                        | 2328                        | 31              |
| Ladder Rail Straight Chrome | D-TSC 69x24 | 1744 (69)             | 600 (24)              | 1287                        | 1986                        | 2754                        | 35              |
| Ladder Rail Curved White    | D-TCW 30x20 | 760 (30)              | 500 (20)              | 629                         | 970                         | 1345                        | 14              |
| Ladder Rail Curved White    | D-TCW 30x24 | 760 (30)              | 600 (24)              | 753                         | 1162                        | 1611                        | 16              |
| Ladder Rail Curved White    | D-TCW 48x20 | 1211 (48)             | 500 (20)              | 952                         | 1469                        | 2037                        | 21              |
| Ladder Rail Curved White    | D-TCW 48x24 | 1211 (48)             | 600 (24)              | 1129                        | 1743                        | 2417                        | 25              |
| Ladder Rail Curved White    | D-TCW 69x20 | 1744 (69)             | 500 (20)              | 1405                        | 2167                        | 3006                        | 31              |
| Ladder Rail Curved White    | D-TCW 69x24 | 1744 (69)             | 600 (24)              | 1661                        | 2563                        | 3555                        | 35              |
| Ladder Rail Curved Chrome   | D-TCC 30x20 | 760 (30)              | 500 (20)              | 534                         | 823                         | 1142                        | 14              |
| Ladder Rail Curved Chrome   | D-TCC 30x24 | 760 (30)              | 600 (24)              | 639                         | 986                         | 1368                        | 16              |
| Ladder Rail Curved Chrome   | D-TCC 48x20 | 1211 (48)             | 500 (20)              | 793                         | 1224                        | 1697                        | 21              |
| Ladder Rail Curved Chrome   | D-TCC 48x24 | 1211 (48)             | 600 (24)              | 941                         | 1452                        | 2014                        | 25              |
| Ladder Rail Curved Chrome   | D-TCC 69x20 | 1744 (69)             | 500 (20)              | 1170                        | 1805                        | 2504                        | 33              |
| Ladder Rail Curved Chrome   | D-TCC 69x24 | 1744 (69)             | 600 (24)              | 1384                        | 2136                        | 2962                        | 36              |

| DESCRIPTION                 | MODEL       | HEIGHT<br>mm (inches) | LENGTH<br>mm (inches) | DISTANCE BETWEEN<br>CONNECTIONS mm (inches) | DISTANCE FROM WALL<br>mm (inches) |
|-----------------------------|-------------|-----------------------|-----------------------|---------------------------------------------|-----------------------------------|
| Ladder Rail Straight White  | D-TSW 27X16 | 678 (27)              | 400 (16)              | 356 (14)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight White  | D-TSW 30X20 | 760 (30)              | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight White  | D-TSW 30X24 | 760 (30)              | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight White  | D-TSW 48X20 | 1211 (48)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight White  | D-TSW 48X24 | 1211 (48)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight White  | D-TSW 69X20 | 1744 (69)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight White  | D-TSW 69X24 | 1744 (69)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 27X16 | 678 (27)              | 400 (16)              | 356 (14)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 30X20 | 760 (30)              | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 30X24 | 760 (30)              | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 48X20 | 1211 (48)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 48X24 | 1211 (48)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 69X20 | 1744 (69)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Straight Chrome | D-TSC 69X24 | 1744 (69)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved White    | D-TCW 30X20 | 760 (30)              | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved White    | D-TCW 30X24 | 760 (30)              | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved White    | D-TCW 48X20 | 1211 (48)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved White    | D-TCW 48X24 | 1211 (48)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved White    | D-TCW 69X20 | 1744 (69)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved White    | D-TCW 69X24 | 1744 (69)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved Chrome   | D-TCC 30X20 | 760 (30)              | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved Chrome   | D-TCC 30X24 | 760 (30)              | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved Chrome   | D-TCC 48X20 | 1211 (48)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved Chrome   | D-TCC 48X24 | 1211 (48)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved Chrome   | D-TCC 69X20 | 1744 (69)             | 500 (20)              | 456 (18)                                    | 71-82 (2 3/4-3 1/4)               |
| Ladder Rail Curved Chrome   | D-TCC 69X24 | 1744 (69)             | 600 (24)              | 556 (21 7/8)                                | 71-82 (2 3/4-3 1/4)               |

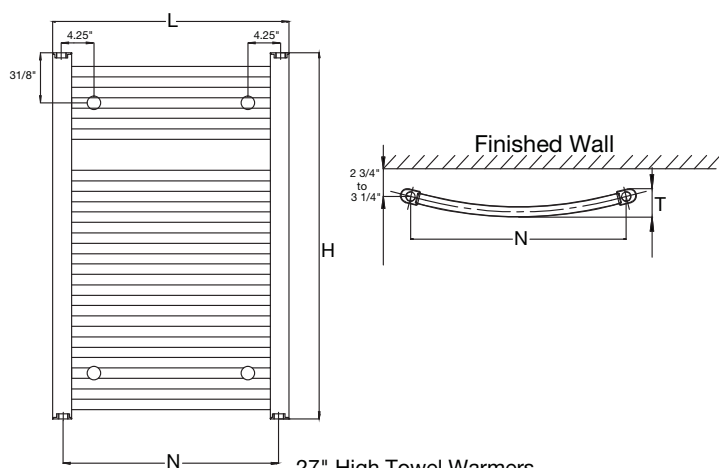
## Ladder Rail Towel Warmers Rough-In and Technical Data

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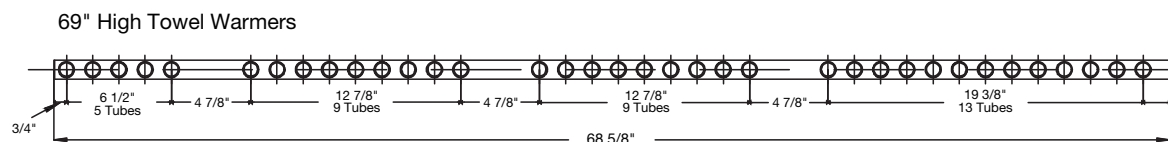
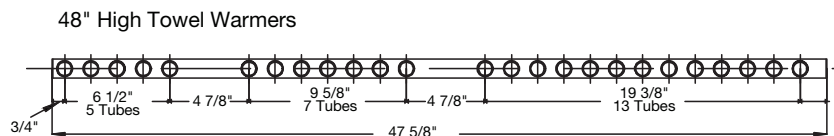
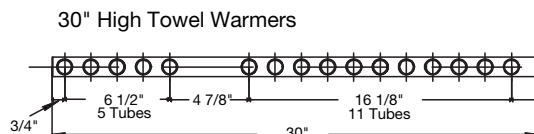
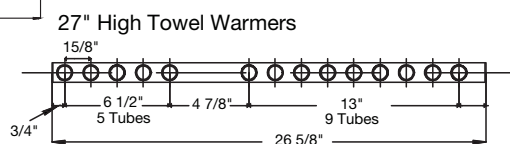
### Straight Ladder Rail



### Curved Ladder Rail



| MODEL       | LENGTH  | HEIGHT  | N       | R             | T      | #TUBES |
|-------------|---------|---------|---------|---------------|--------|--------|
| D-TSW 27x16 | 15 3/4" | 26 3/4" | 14"     | 2 3/4"-3 1/4" | 1 1/8" | 14     |
| D-TSW 30x20 | 19 5/8" | 30"     | 18"     | 2 3/4"-3 1/4" | 1 1/8" | 16     |
| D-TSW 30x24 | 23 5/8" | 30"     | 21 7/8" | 2 3/4"-3 1/4" | 1 1/8" | 16     |
| D-TSW 48x20 | 19 5/8" | 47 5/8" | 18"     | 2 3/4"-3 1/4" | 1 1/8" | 25     |
| D-TSW 48x24 | 23 5/8" | 47 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 1 1/8" | 25     |
| D-TSW 69x20 | 19 5/8" | 68 5/8" | 18"     | 2 3/4"-3 1/4" | 1 1/8" | 36     |
| D-TSW 69x24 | 23 5/8" | 68 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 1 1/8" | 36     |
| D-TSC 27x16 | 15 3/4" | 26 3/4" | 14"     | 2 3/4"-3 1/4" | 1 1/8" | 14     |
| D-TSC 30x20 | 19 5/8" | 30"     | 18"     | 2 3/4"-3 1/4" | 1 1/8" | 16     |
| D-TSC 30x24 | 23 5/8" | 30"     | 21 7/8" | 2 3/4"-3 1/4" | 1 1/8" | 16     |
| D-TSC 48x20 | 19 5/8" | 47 5/8" | 18"     | 2 3/4"-3 1/4" | 1 1/8" | 25     |
| D-TSC 48x24 | 23 5/8" | 47 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 1 1/8" | 25     |
| D-TSC 69x20 | 19 5/8" | 68 5/8" | 18"     | 2 3/4"-3 1/4" | 1 1/8" | 36     |
| D-TSC 69x24 | 23 5/8" | 68 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 1 1/8" | 36     |
| D-TCW 30x20 | 19 5/8" | 30"     | 18"     | 2 3/4"-3 1/4" | 2 1/4" | 16     |
| D-TCW 30x24 | 23 5/8" | 30"     | 21 7/8" | 2 3/4"-3 1/4" | 2 3/8" | 16     |
| D-TCW 48x20 | 19 5/8" | 47 5/8" | 18"     | 2 3/4"-3 1/4" | 2 1/4" | 25     |
| D-TCW 48x24 | 23 5/8" | 47 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 2 3/8" | 25     |
| D-TCW 69x20 | 19 5/8" | 68 5/8" | 18"     | 2 3/4"-3 1/4" | 2 1/4" | 36     |
| D-TCW 69x24 | 23 5/8" | 68 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 2 3/8" | 36     |
| D-TCC 30x20 | 19 5/8" | 30"     | 18"     | 2 3/4"-3 1/4" | 2 1/4" | 16     |
| D-TCC 30x24 | 23 5/8" | 30"     | 21 7/8" | 2 3/4"-3 1/4" | 2 3/8" | 16     |
| D-TCC 48x20 | 19 5/8" | 47 5/8" | 18"     | 2 3/4"-3 1/4" | 2 1/4" | 25     |
| D-TCC 48x24 | 23 5/8" | 47 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 2 3/8" | 25     |
| D-TCC 69x20 | 19 5/8" | 68 5/8" | 18"     | 2 3/4"-3 1/4" | 2 1/4" | 36     |
| D-TCC 69x24 | 23 5/8" | 68 5/8" | 21 7/8" | 2 3/4"-3 1/4" | 2 3/8" | 36     |



# Valves and Accessories

## 20 Thermostatic Radiator Valve Sets

### 1. Herz Angle ½" Mini Set for PEX Pipe

PRODUCT CODE: VA-1773485P



Set of ½" angle nickel plated brass thermostatic control valves for connection to ½" PEX pipe. (Uses M22 x ½" PEX compression fittings Part # V-1606603 included).

The valve kit includes:

- Bi-directional supply valve which can be fitted on the supply or return of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators

### 2. Herz Angle ½" Mini Set for Copper Pipe

PRODUCT CODE: VA-1773484C



Set of ½" angle nickel plated brass thermostatic control valves for connection to ½" copper pipe. (Uses M22 x ½" copper compression fittings Part # V-1606602 included)

The valve kit includes:

- Bi-directional supply valve which can be fitted on the supply or return of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators

### 3. Herz Angle Valve Set For NPT ½" Pipe Thread

PRODUCT CODE: VA-NPTTRVSET



Set of ½" robust angle nickel plated brass thermostatic control valves for connection to ½" NPT pipe thread.

The valve kit includes:

- Supply valve which must be fitted on the supply of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/32" or 4mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators

### 4. Herz Straight Valve Set For NPT ½" Pipe Thread

PRODUCT CODE: VA-NPTST



Set of ½" robust straight nickel plated brass thermostatic control valves for connection to ½" NPT pipe thread.

The valve kit includes:

- Supply valve which must be fitted on the supply of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

### 5. Herz Straight Valve Set For Copper

PRODUCT CODE: VA-ST1773367C



Set of ½" straight nickel plated brass thermostatic control valves for compression connection to ½" copper pipe. (Uses G3/4 X ½" Copper Fittings Part # V-1627616 included). Chrome pipe can be used Model # V-C16600.

The valve kit includes:

- Supply valve which must be fitted on the supply of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C.
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

## Thermostatic Radiator Valve Sets

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### 6. Herz Straight Valve Set For PEX

PRODUCT CODE: VA-ST1773367P



Set of ½" straight nickel plated brass thermostatic control valves for connection to ½" PEX pipe. (Uses G3/4 X ½" PEX Fittings Part # V-1609803 included)

**The valve kit includes:**

- Supply valve which must be fitted on the supply of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

### 7. Herz Reverse Angle (LH) Valve Set For NPT ½" Pipe Thread

PRODUCT CODE: VA-NPTLH



Set of ½" reverse angle nickel plated brass thermostatic control valves for connection to ½" NPT pipe thread. This valve pattern allows the thermostatic head to be mounted in a vertical configuration on the left side of the radiator.

**The valve kit includes:**

- Supply valve which must be fitted on the supply (left) side of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/32" or 4mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

### 8. Herz Reverse Angle (RH) Valve Set For NPT ½" Pipe Thread

PRODUCT CODE: VA-NPTRH



Set of ½" reverse angle nickel plated brass thermostatic control valves for connection to ½" NPT pipe thread. This valve pattern allows the thermostatic head to be mounted in a vertical configuration on the right side of the radiator.

**The valve kit includes:**

- Supply valve which must be fitted on the supply (right) side of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/32" or 4mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

### 9. Herz Reverse Angle (RH) Valve Set For PEX Pipe

PRODUCT CODE: VA-PEXRH



Set of ½" reverse angle nickel plated brass thermostatic control valves for connection to ½" PEX. This valve pattern allows the thermostatic head to be mounted vertical on the right side of the radiator. (Uses G3/4 X ½" PEX Fittings Part # V-1609803 Included)

**The valve kit includes:**

- Supply valve which must be fitted on the supply (right) side of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

# Valves and Accessories

## 22 Thermostatic Radiator Valve Sets

### 10. Herz Reverse Angle (LH) Valve Set For PEX Pipe

PRODUCT CODE: VA-PEXLH



Set of ½" reverse angle nickel plated brass thermostatic control valves for connection to ½" PEX. This valve pattern allows the thermostatic head to be mounted vertical on the left side of the radiator. (Uses G3/4 X ½" PEX Fittings Part # V-1609803 Included)

The valve kit includes:

- Supply valve which must be fitted on the supply (left) side of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

### 11. Herz Reverse Angle (LH) Valve Set For Copper Pipe

PRODUCT CODE: VA-CULH



Set of ½" reverse angle nickel plated brass thermostatic control valves for connection to ½" copper. This valve pattern allows the head to be mounted vertical on the left side of the radiator. (Uses G3/4 X ½" Copper Fittings Part # V-1627616 Included)

The valve kit includes:

- Supply valve which must be fitted on the supply (left) side of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

### 12. Herz Reverse Angle (RH) Valve Set For Copper Pipe

PRODUCT CODE: VA-CURH



Set of ½" reverse angle nickel plated brass thermostatic control valves for connection to ½" copper. This valve pattern allows the head to be mounted vertical on the right side of the radiator. (Uses G3/4 X ½" Copper Fittings Part # V-1627616 Included)

The valve kit includes:

- Supply valve which must be fitted on the supply (right) side of the radiator
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)
- Thermostatic operating head with temperature settings from 6°C - 28°C with frost protection at 6°C
- This valve will fit all Express Radiant's Stelrad radiators and towel warmers

#### PRODUCT CODES:

### 13. Herz Two-pipe Bypass Valve



½" Two-pipe bypass valve with reverse angle thermostatic valve and head for copper and PEX connections

| FOR COPPER             | FOR PEX                |
|------------------------|------------------------|
| VA-171750110C-08 (08") | VA-171750110P-08 (08") |
| VA-171750110C-12 (12") | VA-171750110P-12 (12") |
| VA-171750110C-18 (18") | VA-171750110P-18 (18") |
| VA-171750110C-24 (24") | VA-171750110P-24 (24") |
| VA-171750110C-28 (28") | VA-171750110P-28 (28") |

### 14. Herz One-pipe Bypass Valve



½" One-pipe bypass valve with reverse angle thermostatic valve and head for copper and PEX connections

| FOR COPPER           | FOR PEX              |
|----------------------|----------------------|
| VA-1717301C-08 (08") | VA-1717301P-08 (08") |
| VA-1717301C-12 (12") | VA-1717301P-12 (12") |
| VA-1717301C-18 (18") | VA-1717301P-18 (18") |
| VA-1717301C-24 (24") | VA-1717301P-24 (24") |
| VA-1717301C-28 (28") | VA-1717301P-28 (28") |

## Chrome Radiator Valves

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### 15. Ottinetti Manual ½" Angle Cross Head Valves PRODUCT CODE: V-CROSSH16-P or V-CROSSH16-C



- ½" angle chrome plated brass classic cross head radiator valves  
Has compression fittings for either standard ½" copper or ½" PEX tubing
- These attractive operating valves require 12 mm Allen key to secure the tail piece into the radiator or towel warmer. (Not Included)
  - This will fit all Express Radiant's Stelrad radiators and towel warmers
  - Sold in pairs

### 16. Ottinetti Manual ½" Straight Cross Head Valves PRODUCT CODE: V-CROSSH16-SP or V-CROSSH16-SC



- ½" angle chrome plated brass classic cross head radiator valves  
Has compression fittings for either standard ½" copper or ½" PEX tubing
- These attractive operating valves require a 12 mm Allen key to secure the tail piece into the radiator or towel warmer. (Not Included)
  - This will fit all Express Radiant's Stelrad radiators and towel warmers
  - Sold in pairs

### 17. Ottinetti Angled TRV Valve PRODUCT CODE: VA-CHROMETRVSET-C or VA-CHROMETRVSET-P



- ½" angle chrome plated brass valve set with chrome thermostatic head  
Has compression fittings for either standard ½" copper or ½" PEX tubing
- These attractive operating valves require a 12 mm Allen key to secure the tail piece into the radiator or towel warmer. (Not Included)
  - This will fit all Express Radiant's Stelrad radiators and towel warmers

### 18. Ottinetti Straight TRV Valve PRODUCT CODE: VA-CHROMETRVSET-SC or VA-CHROMETRVSET-SP



- ½" straight chrome plated brass valve set with chrome thermostatic head  
Has compression fittings for either standard ½" copper or ½" PEX tubing
- These attractive operating valves require a 12 mm Allen key to secure the tail piece into the radiator or towel warmer. (Not Included)
  - This will fit all Express Radiant's Stelrad radiators and towel warmers

### 19. Ottinetti Angled Chrome Plated Lockshield PRODUCT CODE: V- CHROMELS-P or V-CHROMELS-C



- Has compression fittings for either standard ½" copper or ½" PEX tubing
- This will fit all Express Radiant's Stelrad radiators and towel warmers
  - Sold in pairs

### 20. Ottinetti Straight Chrome Plated Lockshield PRODUCT CODE: V- CHROMELS-SP or V-CHROMELS-SC



- Has compression fittings for either standard ½" copper or ½" PEX tubing
- This will fit all Express Radiant's Stelrad radiators and towel warmers
  - Sold in pairs

# Valves and Accessories

## 24 Radiator Connectors

### 21. Herz ½" Pex Compression Connector

PRODUCT CODE: V-1609803



G 3/4" X ½" PEX Compression Connector

### 22. Herz ½" Copper Compression Connector

PRODUCT CODE: V-1627616



G 3/4" X ½" Copper Compression Connector

### 23. Herz M22 x ½" PEX Compression Connector

Product Code: V-1606603



M22 X ½" PEX Compression Connector

- For Herz minisets only

### 24. Herz M 22 X ½" Copper Compression Connector

PRODUCT CODE: V-1606602



M22 X ½" Copper Compression Connector

- For Herz minisets only

### 25. Herz Straight ½" NPT Union Connector

PRODUCT CODE: V-1414401 (Single) VA-1414401 (Pair)



½" NPT straight nickel plated brass union radiator connector (s)

- This will fit all Express Radiant, Stelrad radiators and towel warmers

# Valves and Accessories

## Radiator Connectors

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### 26. Herz Angle ½" NPT Union Connector

PRODUCT CODE: V-1414501 (Single) VA-1414501 (Pair)



½" NPT angle nickel plated brass union radiator connector (s)

- This will fit all Express Radiant, Stelrad radiators and towel warmers

### 29. Herz Straight ½" Copper Connectors

PRODUCT CODE: V-1300231C (Single) VA-1300231C (Pair)



½" Copper compression straight nickel plated brass radiator connector (s)

(Uses G3/4" x ½" copper connector Part # V-1627616 included)

Chrome pipe can be used model # V-C16600

- No tape or dope required
- This will fit all Express Radiant's Stelrad radiators and towel warmers

### 30. Herz Straight ½" PEX Connectors

PRODUCT CODE: V-1300231P (Single) VA-1300231P (Pair)



½" PEX compression straight nickel plated brass radiator connector (s)

(Uses G3/4" x ½" PEX connector Part # V-1609803 included)

- No tape or dope required
- This will fit all Express Radiant's Stelrad radiators and towel warmers

## Radiator Valves

### 31. Herz Angle ½" Lockshield Valve

PRODUCT CODE: V-1374801P (PEX) V-1374801C (Copper)



½" PEX and Copper Compression

- This will fit all Express Radiant's Stelrad radiators and towel warmers
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)

Valves shown with PEX Connectors

### 32. Herz Thermostatic ½" Angle Valve Body

PRODUCT CODE: V-1772437P (PEX) V-1772437C (Copper)



½" PEX and Copper Compression

- This will fit all Express Radiant's Stelrad radiators

Valves shown with PEX Connectors

# Valves and Accessories

## 26 Radiator Valves

### 33. Herz Thermostatic ½" Reverse Angle Left Hand Valve Body

PRODUCT CODE: V-1775991



Herz Thermostatic Reverse Angle

- Left Hand Valve Body
- ½" NPT
- This will fit all Express Radiant's Stelrad radiators

### 34. Herz Thermostatic ½" Reverse Angle Right Hand Valve Body

PRODUCT CODE: V-1775891



Herz Thermostatic Reverse Angle

- Right Hand Valve Body
- ½" NPT
- This will fit all Express Radiant's Stelrad radiators

### 35. Herz Angle ½" NPT Thermostatic Valve Body

PRODUCT CODE: V-1772456



½" NPT pipe thread angle nickel plated brass thermostatic radiator control valve

- This will fit all Express Radiant's Stelrad radiators

### 36. Herz Angle ½" NPT Lockshield Valve

PRODUCT CODE: V-1342456



½" NPT pipe thread angle nickel plated brass return lockshield valve used for isolation and flow balancing

- This will fit all Express Radiant's Stelrad radiators and towel warmers
- Return lockshield valve for flow balancing or isolation operated by a 5/32" or 4mm Allen key (not supplied)

### 37. Herz Straight ½" NPT Thermostatic Valve Body

PRODUCT CODE: V-1772391



½" NPT pipe thread straight nickel plated brass thermostatic radiator control valve

- This will fit all Express Radiant's Stelrad radiators and towel warmers

# Valves and Accessories

## Radiator Valves

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### 38. Herz Straight ½" NPT Lockshield Valve

PRODUCT CODE: V-1372341



½" NPT pipe thread straight nickel plated brass return lockshield valve used for isolation and flow balancing

- This will fit all Express Radiant's Stelrad radiators and towel warmers
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)

### 39. Herz Straight ½" Thermostatic Valve Body

PRODUCT CODE: V-1773367P (PEX) V-1773367C (Copper)



½" PEX or Copper straight nickel plated brass thermostatic radiator control valve

- This will fit all Express Radiant's Stelrad radiators and towel warmers

### 40. Herz Straight ½" Lockshield Valve

PRODUCT CODE: V-1373311P (PEX) V-1373311C (Copper)



½" PEX or Copper straight nickel plated brass return lockshield valve used for isolation and flow balancing.

- This will fit all Express Radiant's Stelrad radiators and towel warmers
- Return lockshield valve for flow balancing or isolation operated by a 5/16" or 8mm Allen key (not supplied)

## Controls

### 42. Herz Non-Electric Mini Thermostatic Head

PRODUCT CODE: V-1920060



Thermostatic head, liquid filled. Operating temperature range: 6°C - 28°C  
Frost protection at 6°C, comfort level at scale mark 3

- Fits all Herz thermostatic valve bodies
- Used for sensing room temperature and automatically adjusting flow of liquid through valve body and radiator or heat emitter

# Valves and Accessories

## 28 Accessories

### 43. M28 to M30 Adaptor

PRODUCT CODE: V-1635760



Converts Herz radiator TRV valves from M28 to M30 thread

### 44. Herz Replacement Valve Inserts

PRODUCT CODE: V-1639091 V-1639090



Replacement valve insert for all ½" thermostatic Herz valves. This can be changed with system under pressure using Herz change tool V-1778000 or during routine maintenance. See page 28 Item #45.

Herz Replacement Valve Insert, PRODUCT CODE V-1639091 (NOT for Mini Sets)

Herz Replacement Valve Insert, PRODUCT CODE V-1639090 (for Mini Sets)

### 45. Herz Valve Insert Change Tool

PRODUCT CODE: V-1778000



Herz valve insert change tool.

- For changing valve insert without draining down system or radiator

### 46. Herz Multi-purpose Key

PRODUCT CODE: V-1662500



Herz multi-purpose key

- For adjusting lockshield valves and bleeding radiators

### 47. Stelrad Radiator Air Bleeder Key

PRODUCT CODE: V-VENT KEY



Air bleeder key used for all Express Radiant's Stelrad radiators and towel warmers now on a convenient key ring

### 48. ½" X 24" Chrome Tubing

PRODUCT CODE: V-C16600



½" chrome plated brass tubing 24" long

- Will fit to all Herz copper compression valves
- Easy to solder just remove chrome plating with file and solder to any fitting or use compression fittings

### 49. ½" X 8" Chrome and White Radsnaps

PRODUCT CODE: V-RSC8 (Chrome) V-RSW8 (White)



½" chrome or white pipe covering sleeves, 10 pieces 8" long

- The pipe sleeves can be installed easily around exposed piping and give the appearance of white or chrome pipework
- The individual pieces can be cut with scissors to the required length and snapped around the exposed pipe

### 50. ½" X 40" Chrome and White Pipesnaps

PRODUCT CODE: V-PIPESNAPC (Chrome) V-PIPESNAPW (White)

½" chrome or white pipe covering sleeves, 3 pieces 40" (1m) long

- The pipe sleeves can be installed easily around exposed piping and give the appearance of white or chrome pipework
- The individual pieces can be cut with scissors to the required length and snapped around the exposed pipe



### 51. Softline Radiator Floor Standing Bracket



Universal floor standing bracket with adjustable height setting for Stelrad Compact Softline Radiator

- Not available for the 8" model radiator
- 2 brackets required for 16" to 64" length radiators
- 3 brackets required for 72" to 120" length radiators
- Sold as single

PRODUCT CODE: V-FS BRACKET-K1

PRODUCT CODE: V-FS BRACKET-K2

### 52. Classic Column Floor Standing Brackets

PRODUCT CODE: V-CLFS



Floor standing brackets for classic column radiators

- Up to 18 sections 2 brackets recommended
- 18 - 31 sections 3 brackets recommended
- 32 - 40 sections 4 brackets recommended
- Sold in pairs

### 53. Non Scratch Bushing Wrench

PRODUCT CODE: V-CCWRENCH



Plastic wrench to avoid scratches when used to tighten the bushings on column radiators

- NOTE: for classic column radiators only.

## 54. White Ladder Rail Brackets

PRODUCT CODE: V-WBLRCW (Curved white) V-WBLRSW (Straight white)



Replacement wall brackets for Stelrad ladder rail towel warmers

- Includes hardware accessories pack

## 55. Chrome Ladder Rail Brackets

PRODUCT CODE: V-WBLRCC (Curved chrome) V-WBLRSC (Straight chrome)



Replacement wall brackets for Stelrad ladder rail towel warmers

- Includes hardware accessories pack

## 56. Extensions



Extensions for radiator valve connections

- Fits all Herz valves

PRODUCT CODE: V-EXT20 20mm ( $\frac{3}{4}$ " )

PRODUCT CODE: V-EXT30 30mm ( $1\frac{3}{16}$ " )

PRODUCT CODE: V-EXT40 40mm ( $1\frac{1}{2}$ " )

## 57. Threaded Tail Piece

PRODUCT CODE: V-1621801



3" long union connector tail piece for Herz valves

- Cut to length
- Suitable for all Herz valves except the Herz minisets items #1 VA-1773485P and Item #2 VA-1773484C and chrome valves

## 58. Softline and Style Radiator L Wall Brackets



Replacement wall brackets, sold in pairs

PRODUCT CODE: V-WB200 200mm (8")

PRODUCT CODE: V-WB300 300mm (12")

PRODUCT CODE: V-WB450 450mm (18")

PRODUCT CODE: V-WB600 600mm (24")

PRODUCT CODE: V-WB700 700mm (28")

**NOTE:** Products are matched to radiator height. E.g. If you need brackets for a 12" inch high radiator, select V-WB300. The correct brackets will be shorter than the height of the actual radiator.

### 59. J-Brackets



- Wall mounted through the top grille and in the lower welding seam for easy placement
- Sold in singles
- Suitable for K2 and S2 type radiators only

PRODUCT CODE: V-JBracket 200 200mm (8")  
 PRODUCT CODE: V-JBracket 300 300mm (12")  
 PRODUCT CODE: V-JBracket 450 450mm (18")  
 PRODUCT CODE: V-JBracket 600 600mm (24")  
 PRODUCT CODE: V-JBracket 700 700mm (28")



**NOTE:** Products are matched to radiator height.

### 60. Stelrad Radiator Replacement Hardware Pack



- Stelrad hardware pack for for compact and style radiators in 12", 18", 24" and 28" inch heights.
- Includes nickel plated air vent, blank plug and bracket isolators.

PRODUCT CODE: V-HARDWARE  
 (For 12", 18", 24", 28" radiators, PICTURED)  
 PRODUCT CODE: V-HARDWARE8  
 (For K2 and S2 8" models)

### 61. Stelrad Ladder Rail Replacement Hardware Pack

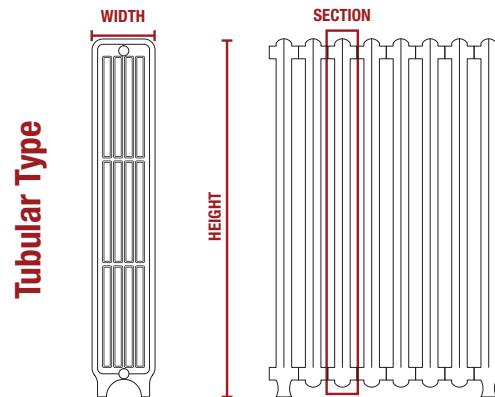
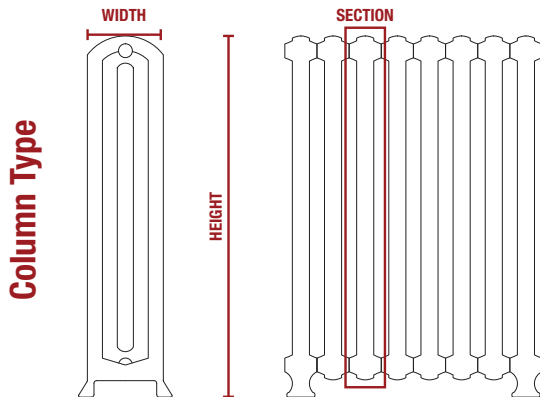
PRODUCT CODE: V-LRHARDWARE



Hardware pack for all types of Stelrad ladder rails

Replacement top grilles and end panels are available as a special order and not carried as stock.

## 32 Calculating Existing Cast Iron Radiator Output in BTU's/Hr



To find the output of a cast iron radiator, you need to know the surface area in square feet of the radiator. Follow these steps to calculate the square feet of radiation. NOTE: Column and Tube cast iron radiators are the two main types.

**Step #1. Calculate the square footage of one section of the radiator.**

- Measure height of section
- Measure width of section
- Find square feet of section in Chart # 1 for COLUMN or Chart # 2 for TUBE type radiator

**Step #2. Multiply the square feet of the one section by the number of sections. Equals the cast iron radiator's total square foot of radiation.**

**Step #3. Multiply the total square foot of the radiator by the BTU output per square foot according to the heating supply temperature, Chart #3.**

Please note that a house heated with all cast iron radiators, the supply temperature generally does not exceed 140°F or 90 BTU's per square foot output for the cast iron radiator.

### 1. Sq. Ft. Radiation Per Section for COLUMN TYPE Radiators

| HEIGHT (inches) | 4-1/2" WIDE ONE COLUMN | 7-1/2" WIDE TWO COLUMN | 9" WIDE THREE COLUMN | 11-1/2" WIDE FOUR COLUMN | 13" WIDE FIVE COLUMN |
|-----------------|------------------------|------------------------|----------------------|--------------------------|----------------------|
| 13              | -                      | -                      | -                    | -                        | 3                    |
| 16              | -                      | -                      | -                    | -                        | 3-3/4                |
| 18              | -                      | -                      | 2-1/4                | 3                        | 4-1/4                |
| 20              | 1-1/2                  | 2                      | -                    | -                        | 5                    |
| 22              | -                      | -                      | 3                    | 4                        | -                    |
| 23              | 1-2/3                  | 2-1/3                  | -                    | -                        | -                    |
| 26              | 2                      | 2-2/3                  | 3-3/4                | 5                        | -                    |
| 32              | 2-1/2                  | 3-1/3                  | 4-1/2                | 6-1/2                    | -                    |
| 38              | 3                      | 4                      | 5                    | 8                        | -                    |
| 45              | -                      | 5                      | 6                    | 10                       | -                    |

### 2. Sq. Ft. Radiation Per Section for TUBE TYPE Radiators

| HEIGHT (inches) | 5" WIDE THREE TUBE | 7" WIDE FOUR TUBE | 8-3/4" WIDE FIVE TUBE | 9-3/4" WIDE SIX TUBE | 12-1/2" WIDE SEVEN TUBE |
|-----------------|--------------------|-------------------|-----------------------|----------------------|-------------------------|
| 14              | -                  | -                 | -                     | -                    | 2-1/2                   |
| 17              | -                  | -                 | -                     | -                    | 3                       |
| 20              | 1-3/4              | 2-1/4             | 2-2/3                 | 3                    | 3-2/3                   |
| 23              | 2                  | 2-1/2             | 3                     | 3-1/2                | -                       |
| 26              | 2-1/3              | 2-3/4             | 3-1/2                 | 4                    | 4-3/4                   |
| 32              | 3                  | 3-1/2             | 4-1/3                 | 5                    | -                       |
| 38              | 3-1/2              | 4-1/4             | 5                     | 6                    | -                       |

### 3. Heat Emissions for Cast Iron Radiators

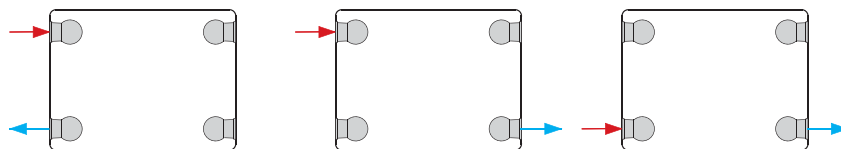
| DESIGN OR AVERAGE WATER TEMPERATURE | HEAT EMISSION RATES BTUH PER SQ. FT. | DESIGN OR AVERAGE WATER TEMPERATURE | HEAT EMISSION RATES BTUH PER SQ. FT. |
|-------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| 110° F                              | 30                                   | 180° F                              | 170                                  |
| 120° F                              | 50                                   | 185° F                              | 180                                  |
| 130° F                              | 70                                   | 190° F                              | 190                                  |
| 140° F                              | 90                                   | 195° F                              | 200                                  |
| 150° F                              | 110                                  | 200° F                              | 210                                  |
| 160° F                              | 130                                  | 205° F                              | 220                                  |
| 170° F                              | 150                                  | 210° F                              | 230                                  |
| 175° F                              | 160                                  | 215° F                              | 240                                  |

# Piping Options for Stelrad Steel Panel Radiators

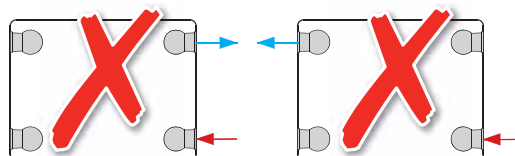
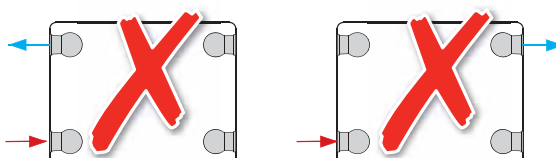
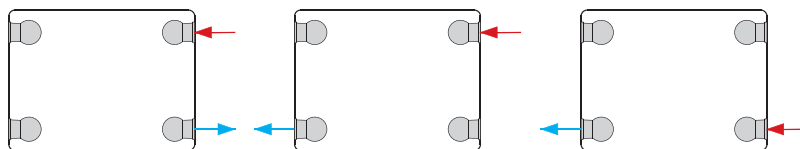
## Radiator Piping Connection Methods

33

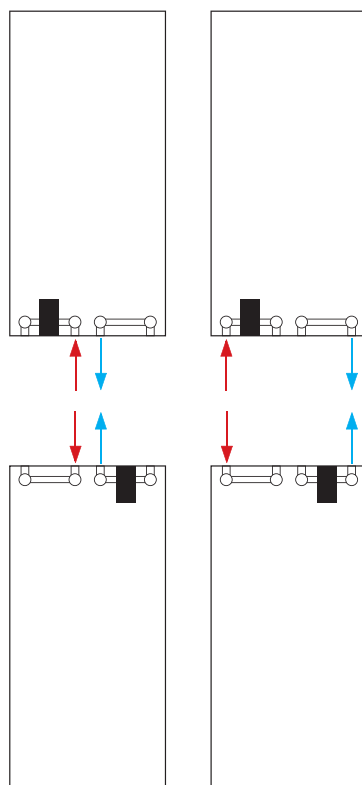
### Compact Softline, Style and Classic Column Piping Options



**Please Note:**  
The return always needs to be at the bottom of the radiator



### K2 Vertex and Style Vertical Radiator Piping Options



## 34 Notes

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Express Radiant Ltd. Conditions of Sale (Canada & US)

UNLESS VARIED BY EXPRESS RADIANT LTD. IN WRITING, ALL GOODS ARE SOLD ONLY UPON THE FOLLOWING TERMS AND CONDITIONS:

1. **Quotations:** Are valid for acceptance for 28 days from the date shown unless withdrawn by us before that date and are subject to our written acceptance of the Buyer's order.
2. **Prices and Discounts:** Are subject to alteration without notice and are given as a guide only as all Goods, as hereinafter defined, are sold at prices ruling on date of dispatch. Prices are exclusive of applicable taxes which will be added to the Buyer's invoice where applicable.
3. **Delay and Cancellations:** Any delivery date indicated shall be regarded as an estimate only, although we shall make every effort to ensure prompt delivery. Whilst every effort will be made to carry out the contract, its due performance is subject to cancellation by us without compensation or to such variation as we may find necessary as a result of a scarcity of labour, materials or supplies, or because of any Act of God, war, strike, lockout or other labour dispute, fire, the elements, legislation, or (without prejudice to the generality of the foregoing) any other cause beyond our control.
4. **Delivery & Risk:** Delivery shall be when the goods set out in the applicable invoice (the "Goods") have been delivered to the Buyer's premises or to such other place as the Buyer may require. This risk shall pass to the Buyer when the Goods have been delivered.
5. **Transport:** Will be effected or arranged by us and Goods will be delivered to destinations in agreed areas carriage paid unless:  
(a) value of order for Goods is less than \$100; or (b) we are informed by the Buyer in writing that the Goods are to be transported by other special delivery, the extra carriage charges for which will be added to the Buyer's invoice.
6. **Damage in Transit:** we will entertain no claim for Goods lost or damaged in transit unless notification of the nature and extent of such a claim is received by us and the Carrier either upon receipt of delivery of damaged Goods, or within 28 days of receipt of delivery of the damaged Goods. Our liability shall in no circumstances exceed the invoiced value of the Goods lost or damaged. Goods subject to claim, shall be stored free of charge for inspection. They shall not be returned to nor accepted by us without written consent.
7. **Exclusion of Warranties:**  
(a) THE BUYER ACKNOWLEDGES THAT EXPRESS RADIANT LTD. ("EXPRESS") IS NOT THE MANUFACTURER OF THE GOODS. EXPRESS MAKES NO REPRESENTATION OR WARRANTY, EXPRESS, IMPLIED OR STATUTORY AS TO THE CONDITION FOR FITNESS OF THE GOODS AND HEREBY SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. EXPRESS WILL, HOWEVER, USE COMMERCIALY REASONABLE EFFORTS, AS REQUESTED BY THE BUYER, TO ASSIST THE BUYER IN ENFORCING ANY WARRANTY THAT THE MANUFACTURER OF THE GOODS MAY HAVE IN EFFECT. EXPRESS SHALL HAVE NO LIABILITY FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL, INCIDENTAL, SPECIAL, COLLATERAL, PUNITIVE, EXEMPLARY OR INDIRECT DAMAGES (INCLUDING WITHOUT LIMITATION LOSS OF GOODWILL, LOSS OF PROFITS OR REVENUES, LOSS OF SAVINGS, LOSS OF USE, INTERRUPTION OF BUSINESS AND CLAIMS OF BUYERS ARISING OUT OF THE USE OF THE GOODS OR OTHERWISE. EXPRESS SPECIFICALLY DISCLAIMS ANY WARRANTY THAT THE GOODS ARE IN COMPLIANCE WITH ANY APPLICABLE GOVERNMENTAL REQUIREMENTS OR REGULATIONS.  
(b) Goods subject to claim shall not be returned to us and we will not accept them without our prior written consent.  
(c) Any returned Goods that we accept back after 30 days will be subject to an automatic restocking fee of: 25% on panel radiators, ladder rails; 50% on columns and style radiators; 25% on all valves and accessories. NO RETURNS ACCEPTED AFTER 180 DAYS FROM DATE OF INVOICE.
8. **Dimensions and Illustrations:** Our price lists and publicity brochures have been prepared with every care but their accuracy is not guaranteed and we reserve the right to vary such information without notice. Exact dimensions will be provided on application.
9. **Payment:** All invoices shall be due for payment on the terms set out therein which shall be **net 30 days**. Default in payment of any invoice shall entitle us to treat any outstanding contracts between us and the Buyer as repudiated by the Buyer, however such repudiation shall in no way relieve the Buyer of its obligations to pay amounts then outstanding to Express, including interest thereon.
10. **Ownership:**  
(a) Notwithstanding any passing of risk to the Buyer we retain ownership of the Goods the subject matter of this contract the property in which shall not pass to the Buyer and the Buyer shall keep any Goods delivered to is as bailee for and on our behalf until we have received full payment of the price of all Goods (whether or not the Goods are delivered in installments and some have been paid for by the Buyer) and all other sums due at any time whatsoever from the Buyer to us.  
(b) Until ownership of the Goods has been passed to the Buyer, the Buyer:  
(i) shall insure the delivered Goods against any loss or damage with an insurance company of repute;  
(ii) shall store the delivered Goods separately or in some other way ensure that they are readily identifiable as our property.  
(iii) Irrevocably authorizes our representatives at any time and from time to time (whether or not payment is due) to repossess the Goods and for such purpose to enter any premises occupied by the Buyer or where the Goods are or are thought to be and to sever the Goods from anything to which they are attached without being responsible for any damage caused  
(iv) Shall keep the delivered Goods free from any charge, lien or other encumbrance.  
(A) If while under our ownership the Goods or any of them are processed or incorporated into other Goods (the "New Goods") then, provided the goods remain a readily identifiable and removable part of the New Goods, the provision of clauses (a) and (b) shall apply.  
(B) We (acting on our own account not as agent for the Buyer) may sell or agree to sell any of the Goods or the New Goods in our possession on such terms as we may in our sole discretion consider appropriate.  
(C) We shall be entitled to a general lien over all Goods and materials of the Buyer which are in our possession or control from time to time for any sums due at any time whatsoever from the Buyer to us.  
(D) Nothing in this clause 10 shall affect any other of our rights or remedies.  
(E) The provisions of this clause 10 shall survive termination of the contract for any reason.
11. **Limitation of Liability:**  
(a) The rights conferred by these conditions shall so far as legally possible replace and exclude all common law, statutory or other warranties or conditions whether express or implied. Save as specifically mentioned above we do not accept liability, in tort or contract or otherwise, for any direct or indirect loss or damage, howsoever arising.  
(b) In no event will Express be liable for any indirect, incidental, consequential, special, punitive or exemplary damages, or any other damages (including, without limitation, damages for loss of business profits, business interruption, personal injury, failure to meet any duty including acts of good faith or of reasonable care, lack of diligence, and for any other pecuniary or other loss whatsoever) arising out of or in any way connected with the use of the Goods, the delay in delivery of the Goods, even in the event of fault, tort (including negligence), strict liability, breach of contract, or breach of warranty of Express and even if Express has been advised of the possibility of such damages. These limitations and exclusions regarding damages apply even if any remedy fails.  
(c) Notwithstanding the foregoing, in no event will Express be liable to the Buyer for any amount in excess of the price paid by the Buyer to Express for the Goods.  
(d) Some jurisdictions do not allow the exclusion of certain warranties or the limitation or exclusion of liability for incidental or consequential damages. Accordingly, some of the above limitations may not apply to the Buyer.
12. **Waiver:** Our rights shall not be affected or restricted by any indulgence or forbearance to the Buyer. No waiver by us of any breach shall operate as a waiver of any wlater breach.
13. **Variation of Conditions:** No variation of these conditions or the particulars in our acceptances shall be valid unless agreed by us in writing.
14. **Law:** This agreement shall be governed by the laws of the Province of Ontario and the laws of Canada applicable therein. Any dispute regarding this agreement shall be referred to a single arbitrator appointed by a Judge of the Superior Court of Justice sitting in Toronto, which arbitration shall proceed in accordance with the provisions of the *Arbitration Act, 1991* (Ontario), as amended.

**ExpressRadiant**  
LTD.

Barrie, Ontario, Canada

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