



## **ARPA 18\_2 VERTICAL**

20 elements, height 2020 mm, length 541 mm. Sablé finish (cod. Y4). Configuration cod. 01.



#### Technical features:

- manifolds with a 30 mm diameter circular section
- tubes made of steel sheet with an 18 mm diameter
- manifold threading 1/2" Gas right
- maximum working pressure 10 bar
- maximum working temperature 95°C

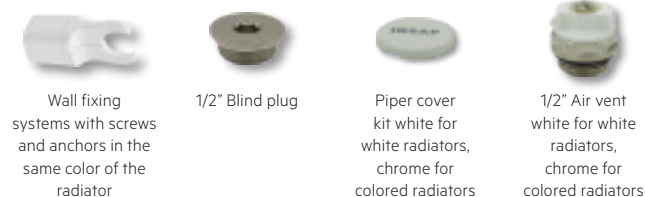
#### Finishes available

Standard White  
IRSAP finishes  
Other RAL colors

#### Surcharge

Finishing codes see page 604.

#### Prices include:



#### Number of elements:

Radiators with an odd number of elements will be supplied at the same price as a radiator with the next even number of elements.  
For example: an ARPA 18\_2 Vertical 1820 high and 9 elements wide = the price of an ARPA 18\_2 Vertical 1820 high and 10 elements wide.

❗ For the possibility of requesting custom models see page 590

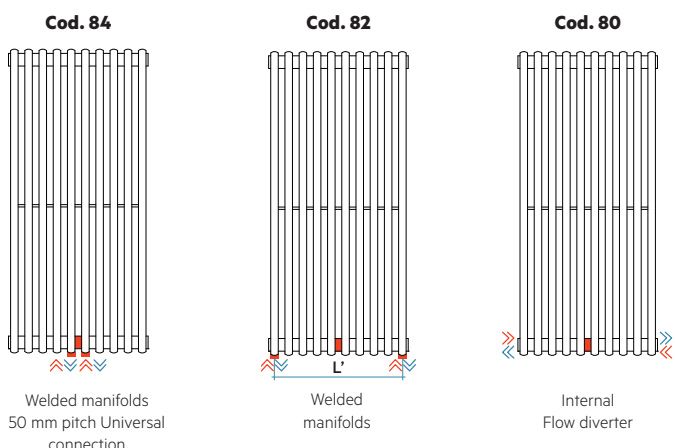


| Model | Code                   | Depth<br>mm | Height<br>H mm | Conn. centre<br>H' mm | Weight<br>Kg | Capacity<br>lt | Thermal Power                          |                                       |                                       |                                           |                                       | Exponent<br>n. |
|-------|------------------------|-------------|----------------|-----------------------|--------------|----------------|----------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------------|---------------------------------------|----------------|
|       |                        |             |                |                       |              |                | $\Delta t=50^{\circ}\text{C}$<br>Btu/h | $\Delta t=50^{\circ}\text{C}$<br>Watt | $\Delta t=40^{\circ}\text{C}$<br>Watt | $\Delta t=30^{\circ}\text{C}$<br>Watt (*) | $\Delta t=20^{\circ}\text{C}$<br>Watt |                |
| 520   | A28 0520 YY 01 IR 01 A | 62          | 520            | 470                   | 0,54         | 0,23           | 106,1                                  | 31,1                                  | 23,3                                  | 16,0                                      | 9,5                                   | 1,296          |
| 550   | A28 0550 YY 01 IR 01 A | 62          | 550            | 500                   | 0,57         | 0,24           | 111,6                                  | 32,7                                  | 24,5                                  | 16,9                                      | 10,0                                  | 1,296          |
| 650   | A28 0650 YY 01 IR 01 A | 62          | 650            | 600                   | 0,66         | 0,28           | 129,3                                  | 37,9                                  | 28,4                                  | 19,5                                      | 11,5                                  | 1,298          |
| 670   | A28 0670 YY 01 IR 01 A | 62          | 670            | 620                   | 0,68         | 0,29           | 132,7                                  | 38,9                                  | 29,1                                  | 20,0                                      | 11,8                                  | 1,298          |
| 700   | A28 0700 YY 01 IR 01 A | 62          | 700            | 650                   | 0,71         | 0,30           | 138,2                                  | 40,5                                  | 30,3                                  | 20,9                                      | 12,3                                  | 1,299          |
| 750   | A28 0750 YY 01 IR 01 A | 62          | 750            | 700                   | 0,75         | 0,32           | 146,7                                  | 43,0                                  | 32,2                                  | 22,1                                      | 13,1                                  | 1,300          |
| 850   | A28 0850 YY 01 IR 01 A | 62          | 850            | 800                   | 0,84         | 0,36           | 163,8                                  | 48,0                                  | 35,9                                  | 24,7                                      | 14,6                                  | 1,302          |
| 870   | A28 0870 YY 01 IR 01 A | 62          | 870            | 820                   | 0,86         | 0,37           | 169,7                                  | 49,8                                  | 37,2                                  | 25,6                                      | 15,1                                  | 1,302          |
| 920   | A28 0920 YY 01 IR 01 A | 62          | 920            | 870                   | 0,91         | 0,39           | 175,7                                  | 51,5                                  | 38,5                                  | 26,5                                      | 15,6                                  | 1,303          |
| 1220  | A28 1220 YY 01 IR 01 A | 62          | 1220           | 1170                  | 1,18         | 0,50           | 224,5                                  | 65,8                                  | 49,2                                  | 33,7                                      | 19,9                                  | 1,308          |
| 1520  | A28 1520 YY 01 IR 01 A | 62          | 1520           | 1470                  | 1,46         | 0,62           | 271,3                                  | 79,5                                  | 59,3                                  | 40,7                                      | 23,9                                  | 1,312          |
| 1820  | A28 1820 YY 01 IR 01 A | 62          | 1820           | 1770                  | 1,73         | 0,74           | 316,3                                  | 92,7                                  | 69,1                                  | 47,3                                      | 27,7                                  | 1,319          |
| 2020  | A28 2020 YY 01 IR 01 A | 62          | 2020           | 1970                  | 1,92         | 0,82           | 345,3                                  | 101,2                                 | 75,3                                  | 51,5                                      | 30,1                                  | 1,324          |
| 2220  | A28 2220 YY 01 IR 01 A | 62          | 2220           | 2170                  | 2,10         | 0,90           | 373,6                                  | 109,5                                 | 81,4                                  | 55,5                                      | 32,4                                  | 1,329          |
| 2520  | A28 2520 YY 01 IR 01 A | 62          | 2520           | 2470                  | 2,37         | 1,01           | 414,9                                  | 121,6                                 | 90,3                                  | 61,5                                      | 35,8                                  | 1,336          |

(\*) Thanks to the high performance of Irsap ARPA 18\_2 Vertical radiators, the ideal  $\Delta t$  for low temperature projects is  $\Delta t$  at  $30^{\circ}\text{C}$ .

For  $\Delta t$  different from  $50^{\circ}\text{C}$  use the formula:  $Q=Q_n (\Delta t / 50)^n$

#### Special Options



#### Manifolds:

The pipefittings welded on the bottom manifold can be positioned at any point at a specified distance between centres. It is compulsory in this type of installation to install a flow diverter during production to ensure the product functions correctly. The minimum possible distance between centres is equal to 50 mm (Cod. 84), while the maximum distance depends on the length of the radiator (Cod. 82). The maximum distance between centres is equal to the number of elements - 2 multiplied by 27 (element pitch):  $L' = 27 \times (n^{\circ} \text{ of elements} - 2)$ .

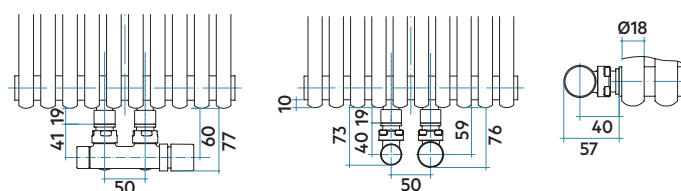
**Bottom Connections (Cod. M82, M84):** For bottom water connections insert an internal flow diverter to the bottom manifold

**Internal Flow diverter (Cod. M80):** Rearrangement for bottom connections with 1/2" welded fittings and internal flow diverter

**Configured for connection with single-pipe valve:** connection available only for modul and/or double-pipe systems, no monotube valve with loop - (specify water inlet)

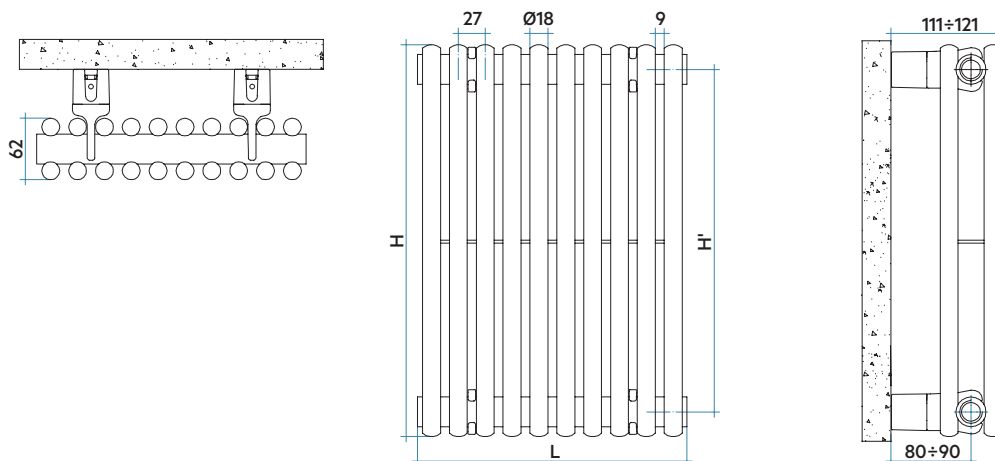
**For other connections see page 204**

#### Connection dimensions with IRSAP valves



#### Key Codes

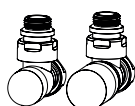
Height: A28 0520  
Number of elements: YY 01  
Packing code: IR  
Standard hydronic connection code: 01  
For other connections, see pag. 204  
Vertical: A  
Standard White color code.  
For different color codes see the colors page.



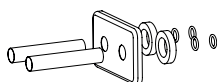
### COMPLETE RADIATOR DATA

|               |      | HEIGHT (H) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| (L)           |      |            | 520  | 550  | 650  | 670  | 700  | 750  | 850  | 870  | 920  | 1220 | 1520 | 1820 | 2020 | 2220 | 2520 |
| Lenght mm     | 109  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 4    | W          | 124  | 131  | 152  | 156  | 162  | 172  | 192  | 199  | 206  | 263  | 318  | 371  | 405  | 438  | 486  |
| Lenght mm     | 163  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 6    | W          | 187  | 196  | 227  | 233  | 243  | 258  | 288  | 299  | 309  | 395  | 477  | 556  | 607  | 657  | 730  |
| Lenght mm     | 217  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 8    | W          | 249  | 262  | 303  | 311  | 324  | 344  | 384  | 398  | 412  | 526  | 636  | 742  | 810  | 876  | 973  |
| Lenght mm     | 271  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 10   | W          | 311  | 327  | 379  | 389  | 405  | 430  | 480  | 498  | 515  | 658  | 795  | 927  | 1012 | 1095 | 1216 |
| Lenght mm     | 325  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 12   | W          | 373  | 392  | 455  | 467  | 486  | 516  | 576  | 597  | 618  | 790  | 954  | 1112 | 1214 | 1314 | 1459 |
| Lenght mm     | 379  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 14   | W          | 435  | 458  | 531  | 545  | 567  | 602  | 672  | 697  | 721  | 921  | 1113 | 1298 | 1417 | 1533 | 1702 |
| Lenght mm     | 433  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 16   | W          | 498  | 523  | 606  | 622  | 648  | 688  | 768  | 796  | 824  | 1053 | 1272 | 1483 | 1619 | 1752 | 1946 |
| Lenght mm     | 487  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 18   | W          | 560  | 589  | 682  | 700  | 729  | 774  | 864  | 896  | 927  | 1184 | 1431 | 1669 | 1822 | 1971 | 2189 |
| Lenght mm     | 541  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 20   | W          | 622  | 654  | 758  | 778  | 810  | 860  | 960  | 995  | 1030 | 1316 | 1590 | 1854 | 2024 | 2190 | 2432 |
| Lenght mm     | 595  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 22   | W          | 684  | 719  | 834  | 856  | 891  | 946  | 1056 | 1095 | 1133 | 1448 | 1749 | 2039 | 2226 | 2409 | 2675 |
| Lenght mm     | 649  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 24   | W          | 746  | 785  | 910  | 934  | 972  | 1032 | 1152 | 1194 | 1236 | 1579 | 1908 | 2225 | 2429 | 2628 | 2918 |
| Lenght mm     | 703  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 26   | W          | 809  | 850  | 985  | 1011 | 1053 | 1118 | 1248 | 1294 | 1339 | 1711 | 2067 | 2410 | 2631 | 2847 | 3162 |
| Lenght mm     | 757  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 28   | W          | 871  | 916  | 1061 | 1089 | 1134 | 1204 | 1344 | 1393 | 1442 | 1842 | 2226 | 2596 | 2834 | 3066 | 3405 |
| Lenght mm     | 811  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 30   | W          | 933  | 981  | 1137 | 1167 | 1215 | 1290 | 1440 | 1493 | 1545 | 1974 | 2385 | 2781 | 3036 | 3285 |      |
| Lenght mm     | 865  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 32   | W          | 995  | 1046 | 1213 | 1245 | 1296 | 1376 | 1536 | 1592 | 1648 | 2106 | 2544 | 2966 | 3238 |      |      |
| Lenght mm     | 919  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 34   | W          | 1057 | 1112 | 1289 | 1323 | 1377 | 1462 | 1632 | 1692 | 1751 | 2237 | 2703 | 3152 | 3441 |      |      |
| Lenght mm     | 973  |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 36   | W          | 1120 | 1177 | 1364 | 1400 | 1458 | 1548 | 1728 | 1791 | 1854 | 2369 | 2862 | 3337 | 3643 |      |      |
| Lenght mm     | 1027 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 38   | W          | 1182 | 1243 | 1440 | 1478 | 1539 | 1634 | 1824 | 1891 | 1957 | 2500 | 3021 | 3523 |      |      |      |
| Lenght mm     | 1081 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 40   | W          | 1244 | 1308 | 1516 | 1556 | 1620 | 1720 | 1920 | 1990 | 2060 | 2632 | 3180 | 3708 |      |      |      |
| Lenght mm     | 1135 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 42   | W          | 1306 | 1373 | 1592 | 1634 | 1701 | 1806 | 2016 | 2090 | 2163 | 2764 | 3339 |      |      |      |      |
| Lenght mm     | 1189 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 44   | W          | 1368 | 1439 | 1668 | 1712 | 1782 | 1892 | 2112 | 2189 | 2266 | 2895 | 3498 |      |      |      |      |
| Lenght mm     | 1243 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 46   | W          | 1431 | 1504 | 1743 | 1789 | 1863 | 1978 | 2208 | 2289 | 2369 | 3027 | 3657 |      |      |      |      |
| Lenght mm     | 1297 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 48   | W          | 1493 | 1570 | 1819 | 1867 | 1944 | 2064 | 2304 | 2388 | 2472 | 3158 |      |      |      |      |      |
| Lenght mm     | 1351 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 50   | W          | 1555 | 1635 | 1895 | 1945 | 2025 | 2150 | 2400 | 2488 | 2575 | 3290 |      |      |      |      |      |
| Lenght mm     | 1405 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 52   | W          | 1617 | 1700 | 1971 | 2023 | 2106 | 2236 | 2496 | 2587 | 2678 | 3422 |      |      |      |      |      |
| Lenght mm     | 1459 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 54   | W          | 1679 | 1766 | 2047 | 2101 | 2187 | 2322 | 2592 | 2687 | 2781 | 3553 |      |      |      |      |      |
| Lenght mm     | 1513 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 56   | W          | 1742 | 1831 | 2122 | 2178 | 2268 | 2408 | 2688 | 2786 | 2884 | 3685 |      |      |      |      |      |
| Lenght mm     | 1567 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| yy = N° elem. | 58   | W          | 1804 | 1897 | 2198 | 2256 | 2349 | 2494 | 2784 | 2886 | 2987 |      |      |      |      |      |      |
| Lenght mm     | 1621 |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| vv = N° elem. | 60   | W          | 1866 | 1962 | 2274 | 2334 | 2430 | 2580 | 2880 | 2985 | 3090 |      |      |      |      |      |      |

### Decorative & Technical Accessories



Kit Valves and  
Lockshield valve  
Pag. 564



Pipe cover kit  
Pag. 568

