



# ARDESIA®

## 5 COLUMNS

### FOR REPLACEMENT



WARRANTY  
**5 YEARS**

|              |           |
|--------------|-----------|
| Functioning: | hot water |
|--------------|-----------|

|                          |        |
|--------------------------|--------|
| Maximum working pressure | 10 bar |
| Testing conditions       | 13 bar |

|                                             |       |
|---------------------------------------------|-------|
| Maximum temperature                         | 110°C |
| Minimum flow in % of the nominal flow rate: | 18    |

|               |       |
|---------------|-------|
| Hub           | 1"    |
| Section width | 46 mm |

#### MATERIAL:

- Pressed heads in carbon steel sheet.
- Welded carbon steel tube ø 25 mm.

#### PACKAGING:

The radiator is protected by a recycled film in polyethylene and with a box in recycled carton. User notice included.

#### PAINTING PROCESS:

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

#### COLOURS:

Standard white RAL 9010 - R01. For other colours see Colour chart chapter.

## CERTIFICATIONS



## HOW TO ORDER ARDESIA® 5 COLUMNS

#### ARTICLE NR. STRUCTURE

| Model and nr COLUMNS | Elements nr. | Height in mm | Article code of the connection | Article code of the colour | Constant value |
|----------------------|--------------|--------------|--------------------------------|----------------------------|----------------|
| AAA                  | BB           | CCCC         | DDD                            | EEE                        | A              |

#### EXAMPLE

| Model and nr COLUMNS<br>E.g.: Ardesia® 5 COLUMNS | Numero elements<br>E.g.: 22 elements | Height in mm<br>Example: 556 mm | Article code of the connection<br>Example: connection 2 | Article code of the colour<br>Example: F37 - Denim Blue | Constant value |
|--------------------------------------------------|--------------------------------------|---------------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------|
| AR5                                              | 22                                   | 0556                            | 002                                                     | F37                                                     | A              |

#### EXAMPLE OF ARTICLE CODE CREATION

In the case of a radiator:

**AR5** ARDESIA® 5 COLUMNS

**22** 22 elements (see the table shown on the side)

**0556** Height 556 mm (see the table shown on the side)

**002** connection 2

**F37** colour F37 - Denim Blue

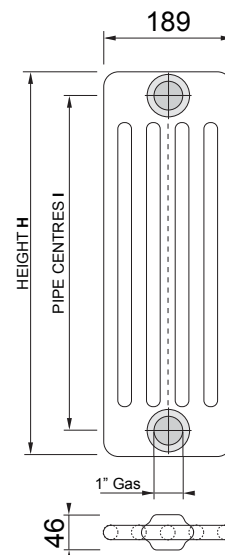
**A** (Constant value)

The article code will be:

**AR5 22 0556 002 F37 A**

## TECHNICAL DATA PER SECTION

|                          | CAST IRON |       | ALUMINIUM |       |       |       |       |       |       | LAMELLAR e PANEL |       |       |       |
|--------------------------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|
| Height H [mm]            | 676       | 876   | 556       | 656   | 756   | 856   | 1656  | 1856  | 2056  | 586              | 626   | 786   | 926   |
| Pipe Centres I [mm]      | 620       | 820   | 500       | 600   | 700   | 800   | 1600  | 1800  | 2000  | 530              | 570   | 730   | 870   |
| (90/70/20°C) ΔT 60 = W   | 145,3     | 182,5 | 122,5     | 141,5 | 160,3 | 178,8 | 324   | 358,3 | 392,4 | 128,3            | 135,9 | 165,9 | 191,7 |
| (75/65/20°C) ΔT 50 = W   | 114       | 143   | 96,2      | 111   | 125,7 | 140,1 | 251,9 | 279,3 | 306,7 | 100,7            | 106,6 | 130   | 150,1 |
| (65/55/20°C) ΔT 40 = W   | 84,7      | 106,1 | 71,5      | 82,5  | 93,3  | 103,9 | 185,1 | 205,9 | 226,9 | 74,8             | 79,2  | 96,5  | 111,3 |
| (55/45/20°C) ΔT 30 = W   | 57,7      | 72,2  | 48,8      | 56,3  | 63,6  | 70,7  | 124,4 | 139   | 153,8 | 51,1             | 54    | 65,7  | 75,6  |
| Water Content [lt]       | 1,65      | 2,05  | 1,41      | 1,61  | 1,81  | 2,01  | 3,62  | 4,02  | 4,42  | 1,47             | 1,55  | 1,87  | 2,13  |
| Dry Weight [kg]          | 2,57      | 3,27  | 2,14      | 2,5   | 2,85  | 3,2   | 6,02  | 6,75  | 7,45  | 2,24             | 2,39  | 2,97  | 3,26  |
| Exp. [n]                 | 1,332     | 1,338 | 1,328     | 1,331 | 1,335 | 1,338 | 1,381 | 1,366 | 1,351 | 1,329            | 1,33  | 1,335 | 1,342 |
| Nominal flow rate [kg/h] | 9,8       | 12,3  | 8,3       | 9,5   | 10,8  | 12    | 21,7  | 24    | 26,4  | 8,7              | 9,2   | 11,2  | 12,9  |
| Radiation quote [%]      | 18        | 17    | 18        | 18    | 18    | 17    | 15    | 15    | 14    | 18               | 18    | 17    | 17    |
| Surface [m²]             | 0,27      | 0,34  | 0,22      | 0,26  | 0,3   | 0,33  | 0,64  | 0,71  | 0,79  | 0,23             | 0,25  | 0,31  | 0,36  |



# 5 COLUMNS HEIGHTS FOR REPLACEMENT



| N° OF SECTIONS<br>WIDTH<br>[mm] |              | CAST IRON |      | ALUMINIUM |      |      |      |       |       |       | LAMELLAR |      | PANEL |      |
|---------------------------------|--------------|-----------|------|-----------|------|------|------|-------|-------|-------|----------|------|-------|------|
|                                 | H            | 676       | 876  | 556       | 656  | 756  | 856  | 1656  | 1856  | 2056  | 586      | 626  | 786   | 926  |
|                                 | Pipe Centres | 620       | 820  | 500       | 600  | 700  | 800  | 1600  | 1800  | 2000  | 530      | 570  | 730   | 870  |
| 3                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 138 mm                          | W            | 342       | 429  | 289       | 333  | 377  | 420  | 756   | 838   | 920   | 302      | 320  | 390   | 450  |
| 4                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 184 mm                          | W            | 456       | 572  | 385       | 444  | 503  | 560  | 1008  | 1117  | 1227  | 403      | 426  | 520   | 600  |
| 5                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 230 mm                          | W            | 570       | 715  | 481       | 555  | 629  | 701  | 1260  | 1397  | 1534  | 504      | 533  | 650   | 751  |
| 6                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 276 mm                          | W            | 684       | 858  | 577       | 666  | 754  | 841  | 1511  | 1676  | 1840  | 604      | 640  | 780   | 901  |
| 7                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 322 mm                          | W            | 798       | 1001 | 673       | 777  | 880  | 981  | 1763  | 1955  | 2147  | 705      | 746  | 910   | 1051 |
| 8                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 368 mm                          | W            | 912       | 1144 | 770       | 888  | 1006 | 1121 | 2015  | 2234  | 2454  | 806      | 853  | 1040  | 1201 |
| 9                               |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 414 mm                          | W            | 1026      | 1287 | 866       | 999  | 1131 | 1261 | 2267  | 2514  | 2760  | 906      | 959  | 1170  | 1351 |
| 10                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 460 mm                          | W            | 1140      | 1430 | 962       | 1110 | 1257 | 1401 | 2519  | 2793  | 3067  | 1007     | 1066 | 1300  | 1501 |
| 11                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 506 mm                          | W            | 1254      | 1573 | 1058      | 1221 | 1383 | 1541 | 2771  | 3072  | 3374  | 1108     | 1173 | 1430  | 1651 |
| 12                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 552 mm                          | W            | 1368      | 1716 | 1154      | 1332 | 1508 | 1681 | 3023  | 3352  | 3680  | 1208     | 1279 | 1560  | 1801 |
| 13                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 598 mm                          | W            | 1482      | 1859 | 1251      | 1443 | 1634 | 1821 | 3275  | 3631  | 3987  | 1309     | 1386 | 1690  | 1951 |
| 14                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 644 mm                          | W            | 1596      | 2002 | 1347      | 1554 | 1760 | 1961 | 3527  | 3910  | 4294  | 1410     | 1492 | 1820  | 2101 |
| 15                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 690 mm                          | W            | 1710      | 2145 | 1443      | 1665 | 1886 | 2102 | 3779  | 4190  | 4601  | 1511     | 1599 | 1950  | 2252 |
| 16                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 736 mm                          | W            | 1824      | 2288 | 1539      | 1776 | 2011 | 2242 | 4030  | 4469  | 4907  | 1611     | 1706 | 2080  | 2402 |
| 17                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 782 mm                          | W            | 1938      | 2431 | 1635      | 1887 | 2137 | 2382 | 4282  | 4748  | 5214  | 1712     | 1812 | 2210  | 2552 |
| 18                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 828 mm                          | W            | 2052      | 2574 | 1732      | 1998 | 2263 | 2522 | 4534  | 5027  | 5521  | 1813     | 1919 | 2340  | 2702 |
| 19                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 874 mm                          | W            | 2166      | 2717 | 1828      | 2109 | 2388 | 2662 | 4786  | 5307  | 5827  | 1913     | 2025 | 2470  | 2852 |
| 20                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 920 mm                          | W            | 2280      | 2860 | 1924      | 2220 | 2514 | 2802 | 5038  | 5586  | 6134  | 2014     | 2132 | 2600  | 3002 |
| 21                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 966 mm                          | W            | 2394      | 3003 | 2020      | 2331 | 2640 | 2942 | 5290  | 5865  | 6441  | 2115     | 2239 | 2730  | 3152 |
| 22                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1012 mm                         | W            | 2508      | 3146 | 2116      | 2442 | 2765 | 3082 | 5542  | 6145  | 6747  | 2215     | 2345 | 2860  | 3302 |
| 23                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1058 mm                         | W            | 2622      | 3289 | 2213      | 2553 | 2891 | 3222 | 5794  | 6424  | 7054  | 2316     | 2452 | 2990  | 3452 |
| 24                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1104 mm                         | W            | 2736      | 3432 | 2309      | 2664 | 3017 | 3362 | 6046  | 6703  | 7361  | 2417     | 2558 | 3120  | 3602 |
| 25                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1150 mm                         | W            | 2850      | 3575 | 2405      | 2775 | 3143 | 3503 | 6298  | 6983  | 7668  | 2518     | 2665 | 3250  | 3753 |
| 26                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1196 mm                         | W            | 2964      | 3718 | 2501      | 2886 | 3268 | 3643 | 6549  | 7262  | 7974  | 2618     | 2772 | 3380  | 3903 |
| 27                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1242 mm                         | W            | 3078      | 3861 | 2597      | 2997 | 3394 | 3783 | 6801  | 7541  | 8281  | 2719     | 2878 | 3510  | 4053 |
| 28                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1288 mm                         | W            | 3192      | 4004 | 2694      | 3108 | 3520 | 3923 | 7053  | 7820  | 8588  | 2820     | 2985 | 3640  | 4203 |
| 29                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1344 mm                         | W            | 3306      | 4147 | 2790      | 3219 | 3645 | 4063 | 7305  | 8100  | 8894  | 2920     | 3091 | 3770  | 4353 |
| 30                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1380 mm                         | W            | 3420      | 4290 | 2886      | 3330 | 3771 | 4203 | 7557  | 8379  | 9201  | 3021     | 3198 | 3900  | 4503 |
| 31                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1426 mm                         | W            | 3534      | 4433 | 2982      | 3441 | 3897 | 4343 | 7809  | 8658  | 9508  | 3122     | 3305 | 4030  | 4653 |
| 32                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1472 mm                         | W            | 3648      | 4576 | 3078      | 3552 | 4022 | 4483 | 8061  | 8938  | 9814  | 3222     | 3411 | 4160  | 4803 |
| 33                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1518 mm                         | W            | 3762      | 4719 | 3175      | 3663 | 4148 | 4623 | 8313  | 9217  | 10121 | 3323     | 3518 | 4290  | 4953 |
| 34                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1564 mm                         | W            | 3876      | 4862 | 3271      | 3774 | 4274 | 4763 | 8565  | 9496  | 10428 | 3424     | 3624 | 4420  | 5103 |
| 35                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1610 mm                         | W            | 3990      | 5005 | 3367      | 3885 | 4400 | 4904 | 8817  | 9776  | 10735 | 3525     | 3731 | 4550  | 5254 |
| 36                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1656 mm                         | W            | 4104      | 5148 | 3463      | 3996 | 4525 | 5044 | 9068  | 10055 | 11041 | 3625     | 3838 | 4680  | 5404 |
| 37                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1702 mm                         | W            | 4218      | 5291 | 3559      | 4107 | 4651 | 5184 | 9320  | 10334 | 11348 | 3726     | 3944 | 4810  | 5554 |
| 38                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1748 mm                         | W            | 4332      | 5434 | 3656      | 4218 | 4777 | 5324 | 9572  | 10613 | 11655 | 3827     | 4051 | 4940  | 5704 |
| 39                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1794 mm                         | W            | 4446      | 5577 | 3752      | 4329 | 4902 | 5464 | 9824  | 10893 | 11961 | 3927     | 4157 | 5070  | 5854 |
| 40                              |              |           |      |           |      |      |      |       |       |       |          |      |       |      |
| 1840 mm                         | W            | 4560      | 5720 | 3848      | 4440 | 5028 | 5604 | 10076 | 11172 | 12268 | 4028     | 4264 | 5200  | 6004 |

Radiators provided in separate batteries to facilitate transport and installation. Batteries can be joined together (nipping operation) with lock key smaller than 1 mt.  
Each couple of batteries inclusive of 2 nipples and 2 seals. (With surcharge). For batteries with more than 70 sections with lateral connection, see probes kit at Accessories chapter