

## Declaration of Performance

**DOP No. Z4-10.3920/1**

1. *Unique identification code of the product type:*

**Sitar Single Vertical**

2. *Serial Number:*

**"SITASVXXXXXX"**

3. *Intended Use/Uses:*

**In heating systems in buildings**

4. *Manufacturer:*

**IRSAP UK  
Units 13-14 Charlwoods Road  
East Grinstead  
West Sussex  
RH19 2HU  
[www.irsap.co.uk](http://www.irsap.co.uk)**

5. *System/Systems of AVCP:*

**System 3**

6. *Notified Body/Bodies:*

**POLITECNICO DI MILANO  
Dipartimento di ENERGIA  
Laboratorio M.R.T. (Misure Ricerche Termotecniche)  
Via Raffaele Lambruschini, 4  
20156 - MILANO – ITALY**

The Radiator Company is a brand of IRSAP

Units 13 – 14 Charlwoods Road | East Grinstead | West Sussex | RH19 2HU

Tel: 01342 302250 | email: [sales@theradiatorcompany.co.uk](mailto:sales@theradiatorcompany.co.uk) | Web: [www.theradiatorcompany.co.uk](http://www.theradiatorcompany.co.uk)

## 7. Declared Performance:

| Essential Characteristics                        | Properties                                                | Harmonised technical specification |
|--------------------------------------------------|-----------------------------------------------------------|------------------------------------|
| Reaction to fire                                 | A1                                                        | EN-442-1:2014                      |
| Release of dangerous substances                  | No Release                                                |                                    |
| Maximum working pressure                         | 8 Bar                                                     |                                    |
| Pressure tightness                               | No Leakage at 10.4 Bar                                    |                                    |
| Surface temperature maximum                      | 95°C                                                      |                                    |
| Resistance to pressure                           | No Breakage at 13.5 Bar                                   |                                    |
| Rated thermal outputs                            | See Table 1                                               |                                    |
| Thermal output in different operating conditions | $\Phi = K_M \times \Delta T^n$<br>$K_M$ & $n$ see table 1 |                                    |

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Table 1:

| Height | Width | Code         | Output<br>$\Delta T=50^{\circ}\text{C}$ | Output<br>$\Delta T=30^{\circ}\text{C}$ | Coefficient<br>$K_M$ | Exponent<br>$n$ |
|--------|-------|--------------|-----------------------------------------|-----------------------------------------|----------------------|-----------------|
| (mm)   | (mm)  |              | (watts)                                 | (Watts)                                 |                      |                 |
| 520    | 300   | SITASV523009 | 234                                     | 126                                     | 1.76949              | 1.24921         |
| 520    | 402   | SITASV524012 | 312                                     | 168                                     | 2.35932              | 1.24921         |
| 520    | 504   | SITASV525015 | 390                                     | 210                                     | 2.94915              | 1.24921         |
| 520    | 606   | SITASV526018 | 468                                     | 252                                     | 3.53898              | 1.24921         |
| 520    | 708   | SITASV527021 | 546                                     | 294                                     | 4.12881              | 1.24921         |
| 650    | 300   | SITASV653009 | 288                                     | 153                                     | 2.0871               | 1.25652         |
| 650    | 402   | SITASV654012 | 384                                     | 204                                     | 2.7828               | 1.25652         |
| 650    | 504   | SITASV655015 | 480                                     | 255                                     | 3.4785               | 1.25652         |
| 650    | 606   | SITASV656018 | 576                                     | 306                                     | 4.1742               | 1.25652         |
| 650    | 708   | SITASV657021 | 672                                     | 357                                     | 4.8699               | 1.25652         |
| 750    | 300   | SITASV753009 | 324                                     | 171                                     | 2.31282              | 1.26215         |
| 750    | 402   | SITASV754012 | 432                                     | 228                                     | 3.08376              | 1.26215         |
| 750    | 504   | SITASV755015 | 540                                     | 285                                     | 3.8547               | 1.26215         |
| 750    | 606   | SITASV756018 | 648                                     | 342                                     | 4.62564              | 1.26215         |
| 750    | 708   | SITASV757021 | 756                                     | 399                                     | 5.39658              | 1.26215         |
| 920    | 232   | SITASV922307 | 301                                     | 154                                     | 2.09237              | 1.26919         |
| 920    | 300   | SITASV923009 | 387                                     | 198                                     | 2.69019              | 1.26919         |
| 920    | 402   | SITASV924012 | 516                                     | 264                                     | 3.58692              | 1.26919         |
| 920    | 504   | SITASV925015 | 645                                     | 330                                     | 4.48365              | 1.26919         |
| 920    | 606   | SITASV926018 | 774                                     | 396                                     | 5.38038              | 1.26919         |
| 920    | 708   | SITASV927021 | 903                                     | 462                                     | 6.27711              | 1.26919         |
| 920    | 810   | SITASV928124 | 1032                                    | 528                                     | 7.17384              | 1.26919         |
| 1220   | 232   | SITASV122307 | 385                                     | 203                                     | 9.66392              | 1.2709          |
| 1220   | 300   | SITASV123009 | 495                                     | 261                                     | 12.42504             | 1.2709          |
| 1220   | 402   | SITASV124012 | 660                                     | 348                                     | 16.56672             | 1.2709          |
| 1220   | 504   | SITASV125015 | 825                                     | 435                                     | 20.7084              | 1.2709          |
| 1220   | 606   | SITASV126018 | 990                                     | 522                                     | 24.85008             | 1.2709          |
| 1220   | 708   | SITASV127021 | 1155                                    | 609                                     | 28.99176             | 1.2709          |
| 1220   | 810   | SITASV128124 | 1320                                    | 696                                     | 33.13344             | 1.2709          |
| 1520   | 232   | SITASV152307 | 469                                     | 245                                     | 3.21622              | 1.27262         |
| 1520   | 300   | SITASV153009 | 603                                     | 315                                     | 4.13514              | 1.27262         |
| 1520   | 402   | SITASV154012 | 804                                     | 420                                     | 5.51352              | 1.27262         |
| 1520   | 504   | SITASV155015 | 1005                                    | 525                                     | 6.8919               | 1.27262         |
| 1520   | 606   | SITASV156018 | 1206                                    | 630                                     | 8.27028              | 1.27262         |
| 1520   | 708   | SITASV157021 | 1407                                    | 735                                     | 9.64866              | 1.27262         |
| 1520   | 810   | SITASV158124 | 1608                                    | 840                                     | 11.02704             | 1.27262         |
| 1820   | 232   | SITASV182307 | 546                                     | 287                                     | 3.57266              | 1.28691         |
| 1820   | 300   | SITASV183009 | 702                                     | 369                                     | 4.59342              | 1.28691         |
| 1820   | 402   | SITASV184012 | 936                                     | 492                                     | 6.12456              | 1.28691         |
| 1820   | 504   | SITASV185015 | 1170                                    | 615                                     | 7.6557               | 1.28691         |

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|      |     |              |      |      |          |         |
|------|-----|--------------|------|------|----------|---------|
| 1820 | 606 | SITASV186018 | 1404 | 738  | 9.18684  | 1.28691 |
| 1820 | 708 | SITASV187021 | 1638 | 861  | 10.71798 | 1.28691 |
| 1820 | 810 | SITASV188124 | 1872 | 984  | 12.24912 | 1.28691 |
| 2020 | 232 | SITASV202307 | 602  | 308  | 3.78084  | 1.29644 |
| 2020 | 300 | SITASV203009 | 774  | 396  | 4.86108  | 1.29644 |
| 2020 | 402 | SITASV204012 | 1032 | 528  | 6.48144  | 1.29644 |
| 2020 | 504 | SITASV205015 | 1290 | 660  | 8.1018   | 1.29644 |
| 2020 | 606 | SITASV206018 | 1548 | 792  | 9.72216  | 1.29644 |
| 2020 | 708 | SITASV207021 | 1806 | 924  | 11.34252 | 1.29644 |
| 2020 | 810 | SITASV208124 | 2064 | 1056 | 12.96288 | 1.29644 |

***The performance of the product identified in point 1 is in conformity with the declared performances in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.***

**Andrew Phillips**



**Managing Director  
January 2020**

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The Radiator Company

## Declaration of Performance

**DOP No. Z4-10.4920/1**

1. *Unique identification code of the product type:*

**Sitar Double Vertical**

2. *Serial Number:*

**"SITADVXXXXXX"**

3. *Intended Use/Uses:*

**In heating systems in buildings**

4. *Manufacture:*

**IRSAP UK**

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5. *System/Systems of AVCP:*

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## 7. Declared Performance:

| Essential Characteristics                        | Properties                                                | Harmonised technical specification |
|--------------------------------------------------|-----------------------------------------------------------|------------------------------------|
| Reaction to fire                                 | A1                                                        | EN-442-1:2014                      |
| Release of dangerous substances                  | No Release                                                |                                    |
| Maximum working pressure                         | 8 Bar                                                     |                                    |
| Pressure tightness                               | No Leakage at 10.4 Bar                                    |                                    |
| Surface temperature maximum                      | 95°C                                                      |                                    |
| Resistance to pressure                           | No Breakage at 13.5 Bar                                   |                                    |
| Rated thermal outputs                            | See Table 1                                               |                                    |
| Thermal output in different operating conditions | $\Phi = K_M \times \Delta T^n$<br>$K_M$ & $n$ see table 1 |                                    |

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| Height | Width | Code         | Output<br>$\Delta T=50^{\circ}\text{C}$ | Output<br>$\Delta T=30^{\circ}\text{C}$ | Coefficient<br>$K_M$ | Exponent<br>$n$ |
|--------|-------|--------------|-----------------------------------------|-----------------------------------------|----------------------|-----------------|
| (mm)   | (mm)  |              | (watts)                                 | (Watts)                                 |                      |                 |
| 520    | 300   | SITADV523009 | 360                                     | 189                                     | 2.42163              | 1.28            |
| 520    | 402   | SITADV524012 | 480                                     | 252                                     | 3.22884              | 1.28            |
| 520    | 504   | SITADV525015 | 600                                     | 315                                     | 4.03605              | 1.28            |
| 520    | 606   | SITADV526018 | 720                                     | 378                                     | 4.84326              | 1.28            |
| 520    | 708   | SITADV527021 | 840                                     | 441                                     | 5.65047              | 1.28            |
| 650    | 300   | SITADV653009 | 432                                     | 225                                     | 2.81241              | 1.28508         |
| 650    | 402   | SITADV654012 | 576                                     | 300                                     | 3.74988              | 1.28508         |
| 650    | 504   | SITADV655015 | 720                                     | 375                                     | 4.68735              | 1.28508         |
| 650    | 606   | SITADV656018 | 864                                     | 450                                     | 5.62482              | 1.28508         |
| 650    | 708   | SITADV657021 | 1008                                    | 525                                     | 6.56229              | 1.28508         |
| 750    | 300   | SITADV753009 | 477                                     | 252                                     | 3.09807              | 1.28899         |
| 750    | 402   | SITADV754012 | 636                                     | 336                                     | 4.13076              | 1.28899         |
| 750    | 504   | SITADV755015 | 795                                     | 420                                     | 5.16345              | 1.28899         |
| 750    | 606   | SITADV756018 | 954                                     | 504                                     | 6.19614              | 1.28899         |
| 750    | 708   | SITADV757021 | 1113                                    | 588                                     | 7.22883              | 1.28899         |
| 920    | 232   | SITADV922307 | 441                                     | 224                                     | 2.75583              | 1.29704         |
| 920    | 300   | SITADV923009 | 567                                     | 288                                     | 3.54321              | 1.29704         |
| 920    | 402   | SITADV924012 | 756                                     | 384                                     | 4.72428              | 1.29704         |
| 920    | 504   | SITADV925015 | 945                                     | 480                                     | 5.90535              | 1.29704         |
| 920    | 606   | SITADV926018 | 1134                                    | 576                                     | 7.08642              | 1.29704         |
| 920    | 708   | SITADV927021 | 1323                                    | 672                                     | 8.26749              | 1.29704         |
| 920    | 810   | SITADV928124 | 1512                                    | 768                                     | 9.44856              | 1.29704         |
| 1220   | 232   | SITADV122307 | 560                                     | 287                                     | 3.24604              | 1.31722         |
| 1220   | 300   | SITADV123009 | 720                                     | 369                                     | 4.17348              | 1.31722         |
| 1220   | 402   | SITADV124012 | 960                                     | 492                                     | 5.56464              | 1.31722         |
| 1220   | 504   | SITADV125015 | 1200                                    | 615                                     | 6.9558               | 1.31722         |
| 1220   | 606   | SITADV126018 | 1440                                    | 738                                     | 8.34696              | 1.31722         |
| 1220   | 708   | SITADV127021 | 1680                                    | 861                                     | 9.73812              | 1.31722         |
| 1220   | 810   | SITADV128124 | 1920                                    | 984                                     | 11.12928             | 1.31722         |
| 1520   | 232   | SITADV152307 | 686                                     | 350                                     | 3.67472              | 1.3374          |
| 1520   | 300   | SITADV153009 | 882                                     | 450                                     | 4.72464              | 1.3374          |
| 1520   | 402   | SITADV154012 | 1176                                    | 600                                     | 6.29952              | 1.3374          |
| 1520   | 504   | SITADV155015 | 1470                                    | 750                                     | 7.8744               | 1.3374          |
| 1520   | 606   | SITADV156018 | 1764                                    | 900                                     | 9.44928              | 1.3374          |
| 1520   | 708   | SITADV157021 | 2058                                    | 1050                                    | 11.02416             | 1.3374          |
| 1520   | 810   | SITADV158124 | 2352                                    | 1200                                    | 12.59904             | 1.3374          |
| 1820   | 232   | SITADV182307 | 819                                     | 420                                     | 4.655                | 1.32235         |
| 1820   | 300   | SITADV183009 | 1053                                    | 540                                     | 5.985                | 1.32235         |
| 1820   | 402   | SITADV184012 | 1404                                    | 720                                     | 7.98                 | 1.32235         |
| 1820   | 504   | SITADV185015 | 1755                                    | 900                                     | 9.975                | 1.32235         |

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|------|-----|--------------|------|------|----------|---------|
| 1820 | 606 | SITADV186018 | 2106 | 1080 | 11.97    | 1.32235 |
| 1820 | 708 | SITADV187021 | 2457 | 1260 | 13.965   | 1.32235 |
| 1820 | 810 | SITADV188124 | 2808 | 1440 | 15.96    | 1.32235 |
| 2020 | 232 | SITADV202307 | 917  | 469  | 5.39511  | 1.31231 |
| 2020 | 300 | SITADV203009 | 1179 | 603  | 6.93657  | 1.31231 |
| 2020 | 402 | SITADV204012 | 1572 | 804  | 9.24876  | 1.31231 |
| 2020 | 504 | SITADV205015 | 1965 | 1005 | 11.56095 | 1.31231 |
| 2020 | 606 | SITADV206018 | 2358 | 1206 | 13.87314 | 1.31231 |
| 2020 | 708 | SITADV207021 | 2751 | 1407 | 16.18533 | 1.31231 |
| 2020 | 810 | SITADV208124 | 3144 | 1608 | 18.49752 | 1.31231 |

***The performance of the product identified in point 1 is in conformity with the declared performances in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.***

**Andrew Phillips**



**Managing Director  
January 2020**

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