

Analisi per l'affidabilità del metodo dimensionale per la determinazione dei coefficienti Kq, come previsto nella norma UNI 10200, al momento in inchiesta pubblica (documento E0208F600)

Totale numero di radiatori analizzati: 1.251

Analisi eseguita da: IGE – Facoltà di Termotecnica dell’Università di Stoccarda – “testing laboratory certified by ISO IEC 17025” – laboratorio accreditato

Riassunto dei margini d’errore certificati riscontrati nell’analisi, confrontando potenze termiche conosciute con quelle calcolate secondo il metodo dimensionale della norma UNI 10200 in inchiesta pubblica.

Tipi di radiatori come definiti nel prospetto C.1 della norma UNI (vedi appendice).

| Tipo | In ghisa | | | | | Ghisa o acciaio | Piastre di ghisa | | Alluminio | | | | Acciaio | | | | |
|------------------|----------|-----|-----|-----|------|-----------------|------------------|-----|-----------|-----|-----|-----|---------|-----|-------|--|--|
| | 1 | 2 | 3 | 4 | 5 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | |
| Numeri radiatori | 130 | 120 | 192 | 118 | 208 | 33 | 69 | 86 | 30 | 22 | 132 | 43 | 21 | 47 | 1.251 | | |
| Deviazioni da % | -25 | +6 | +21 | -17 | -21 | +71 | -22 | -14 | +23 | -12 | -47 | -32 | +19 | -32 | | | |
| Deviazioni a % | +44 | +69 | +90 | +77 | +103 | +125 | -14 | +43 | +36 | +14 | -16 | +37 | +29 | -11 | | | |

La tabella riassume i margini d’errore riscontrati e certificati nell’analisi, confrontando i valori ottenuti con il “metodo dimensionale” con i valori termici conosciuti (come previsti dalla UNI EN 834 e 835)

Altri tipi di radiatori molto frequentemente installati negli edifici come, termoarredi (scaldasalviette ecc..), tubolari in acciaio, a lamelle, convettori, ecc., ecc., non sono stati analizzati perché non previsti dal prospetto 1 della norma UNI 10200 per il metodo dimensionale, escludendoli quindi per definizione dalla metodologia.

Conclusioni/Riassunto:

L’analisi sui radiatori analizzati da parte del laboratorio accreditato certifica che :

- 1. Per i tipi di radiatori da 1 a 8 il 68% mostrano una deviazione superiore al + - 15% e più del 51% deviazioni superiori al + - 20%. (range deviazioni: da -25% fino a + 125%)**
- 2. Per i tipi di radiatori da 9 a 14 il 84% mostrano una deviazione superiore al + - 20% e più del 16% deviazioni superiori al + - 40%. (range deviazioni: da -47% fino a +37%)**
- 3. Sul totale dei radiatori analizzati (tipi da 1 a 14) il 73% mostrano deviazioni superiori a + - 15% e più del 59% superiori al + - 20%. (range deviazioni da -47% fino a 125%)**

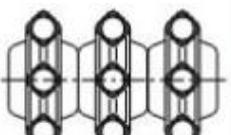
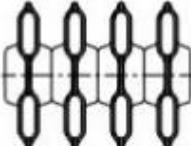
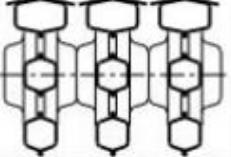
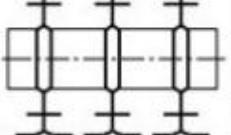
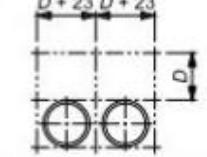
Come già comunicato più volte in diverse sedi competenti, con questa analisi ufficiale, ora anche certificata da laboratorio accreditato, si vuole evidenziare l’assoluta *non* affidabilità del “metodo dimensionale” per la determinazione delle potenze termiche e quindi il fattore kq per i ripartitori per costi di riscaldamento. Errori fatti nella determinazione della potenza termica dei singoli radiatori installati in un’utenza quasi certamente portano allo stesso errore nel rilevamento dei consumi e quindi nei costi per il riscaldamento attribuiti all’utenza alla fine dell’esercizio.

Inoltre si vuole evidenziare che la valutazione di errori nelle analisi delle metodologie è in diretta dipendenza dal numero, tipo e dimensioni dei radiatori analizzati nello studio.

Allegati:

- prospetto C.1 della Norma 10200 (E0208F600)
- Analisi e certificazione dell’Università di Stoccarda

Prospetto C.1 - Valori del coefficiente k per differenti tipologie di corpi scaldanti (validi per spessori dei mozzi compresi tra 50 e 60 mm)

| Materiale | Tipologia | Descrizione | | k [W/m ²] ¹⁾ | Tipologia |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|---------------------------|---------------------------------------|-----------|
| Ghisa |  | Colonne piccole (sezione ≤ 30 × 30 mm) | mozzo 50 mm | 18000 | 1 |
| | | | mozzo 55 mm | 16900 | 2 |
| | | | mozzo 60 mm ²⁾ | 15500 | 3 |
| | | Colonne grandi (sezione > 30 × 30 mm) | mozzo 55 mm | 18600 | 4 |
| | | | mozzo 60 mm | 17600 | 5 |
| Ghisa o Acciaio |  | Colonne unite da diaframma | | 16900 | 6 |
| Piastre di Ghisa |  | Colonne lisce | | 20300 | 7 |
| | | Colonne alettate | | 21400 | 8 |
| Alluminio |  | Molto alettato | | 28100 | 9 |
| | | Mediamente alettato | | 24800 | 10 |
| | | Poco alettato | | 21400 | 11 |
| Acciaio |  | Piastra senza alettatura | | 20300 | 12 |
| | | Con alettatura posteriore | | 23600 | 13 |
| | | Con alettatura fra i ranghi | | 22500 | 14 |
| Tubo nudo ³⁾ |  | Tubi verticali od orizzontali | | 7000 | 15 |

¹⁾ Dati ricavati sperimentalmente per differenti tipologie di corpi scaldanti. k è funzione quasi esclusiva della forma ed in misura trascurabile del materiale.

²⁾ Il mozzo 60 mm porta ad un lieve incremento del calore radiante, ma incrementa in modo trascurabile la parte convettiva, che non è proporzionale all'aumento di volume.

³⁾ Nel caso di tubo nudo (tubazioni di pertinenza nei locali assimilabili a corpi scaldanti fittizi) devono essere utilizzate le seguenti dimensioni:

- altezza del corpo scaldante (h) = altezza del tubo, [m];
- larghezza del corpo scaldante (l) = $(D + 23) / 1000$, [m];
- profondità del corpo scaldante (p) = $D / 1000$, [m];

dove D è il diametro del tubo espresso in millimetri.

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Heiz- und
RaumluftechnikSachverständige Stelle A1
für Heizkostenverreiter**UNI 10200**
Comparison of Radiator Heat Outputs**Report no. TG16 H011 ANCCA**

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1 Task

The UNI 10200 is used to determine the heat output of radiators with an approximation method only if there are no reports or catalog data available. The client provided the contractor more than 1.000 records to compare the heat output deviation between the catalog data and the UNI 10200. The associated catalog data were also provided to the contractor.

The task of the contractor was to check, if the UNI 10200 values were correctly determined and whether the catalog data were compared correctly with UNI 10200.

The contractor used the records and consequently the discrepancies of both methods of determination with an extensive sample to especially compare the differences between the catalog data (reference) and the values of UNI 10200. This indicates that positive deviations mean that the heat output are higher than the catalog data and accordingly also in reverse.

2 Results

The sampling considers all listed radiator subtypes in the context of comparison out of more than 40 different radiator families.

The largest deviations are at sectional radiators with smaller length (only consisting a few elements) of the type 1~8 within the meaning of the UNI 10200. This applies to the comparison with data from old catalogs as well as results of tests according to EN 442-2. Normally sectional radiators are tested with a length of 10 elements and the results are reported in W / element and therefore also apply to radiators with e. g. only 2 elements.

The same applies to the panel radiators type 12~14 with smaller length, which are examined usually with a length of 1,0 m and whose heat output is then reported in W / m.

For buildings with various radiator types this means that the deviations between heat output out of older catalog data respectively EN 442-2 and heat output out of UNI 10200 in particular for radiators of smaller length – less than 10 elements respectively less than 1 meter – would bear large deviations followed by an increase of the allocation errors in heating costs in the relevant property.

Further there are big deviations for element radiators with a big pitch (length of an element). This is caused by an overrating by UNI 10200. Again in particular radiators with few elements are affected.

Based on the above mentioned large sampling the deviations shown in the tables in the appendix 3.1 to 3.14 are confirmed.

3 Annex

Legend:

| | |
|-----------|------------------------------------------------------------------------------------------------------------------------|
| 2 | Reference number |
| 3 | Producer / Model |
| 4 | Number of elements |
| 5 | Watt per element ΔT 60 (90/70/20) (on plate radiators -> type) |
| 6 | Length (l) of the radiator in m |
| 7 | Height (h) of the radiator in m |
| 8 | Depth (p) of the radiator in m |
| 9 | Watt of the radiator ΔT 60 (90/70/20) based on tecnical data sheets |
| 10 | Calculated watt based on the dimensional method UNI10200 ΔT 60 (90/70/20) ΔT 60 = $314 * S + k * V$ |
| 11 | Differece in % between tecnical data sheets (EN442) and UNI10200 |
| 12 | Coefficient (k) according to the table of the "prospetto C1" of the UNI 10200 (E0208F600) |
| 13 | Surface of the radiator $(S) = 2*h*l+2*p*l+2*p*h$ |
| 14 | Volume of the radiator $(V)=h*p*l$ |
| 15 | Type of radiator according to the table of the "prospetto C1" of the UNI 10200 (E0208F600) |

3.1 Comparative values for radiators of type 1 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------|-----------------------|----------|---------|------------|------------|-----------|----------|--------------|-------|-----------------|-------------------|-------------------|------|
| C.MID | Producer Model | num elem | KQ/elem | length (l) | height (h) | depth (p) | KQ | KQ UNI 10200 | | coefficient (k) | surface (S) | volume (V) | |
| | | | 90/70/2 | | | | 90/70/20 | 90/70/2 | | UNI 1020 | (m ²) | (m ³) | type |
| 5...1275 | Strebel Favo (2) 2055 | 1 | 59,66 | 0,050 | 0,555 | 0,060 | 60 | 70 | 18 % | 18000 | 0,12810 | 0,001665 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 3 | 59,66 | 0,150 | 0,555 | 0,060 | 179 | 169 | -6 % | 18000 | 0,25110 | 0,004995 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 4 | 59,66 | 0,200 | 0,555 | 0,060 | 239 | 218 | -9 % | 18000 | 0,31260 | 0,006660 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 5 | 59,66 | 0,250 | 0,555 | 0,060 | 298 | 267 | -10 % | 18000 | 0,37410 | 0,008325 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 6 | 59,66 | 0,300 | 0,555 | 0,060 | 358 | 317 | -12 % | 18000 | 0,43560 | 0,009990 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 7 | 59,66 | 0,350 | 0,555 | 0,060 | 418 | 366 | -12 % | 18000 | 0,49710 | 0,011655 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 8 | 59,66 | 0,400 | 0,555 | 0,060 | 477 | 415 | -13 % | 18000 | 0,55860 | 0,013320 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 9 | 59,66 | 0,450 | 0,555 | 0,060 | 537 | 464 | -14 % | 18000 | 0,62010 | 0,014985 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 10 | 59,66 | 0,500 | 0,555 | 0,060 | 597 | 514 | -14 % | 18000 | 0,68160 | 0,016650 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 11 | 59,66 | 0,550 | 0,555 | 0,060 | 656 | 563 | -14 % | 18000 | 0,74310 | 0,018315 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 14 | 59,66 | 0,700 | 0,555 | 0,060 | 835 | 711 | -15 % | 18000 | 0,92760 | 0,023310 | 1 |
| 5...474 | Ribe - Rio S | 1 | 83 | 0,052 | 0,572 | 0,105 | 83 | 116 | 41 % | 18000 | 0,19053 | 0,003123 | 1 |
| 5...474 | Ribe - Rio S | 2 | 83 | 0,104 | 0,572 | 0,105 | 165 | 194 | 18 % | 18000 | 0,26094 | 0,006246 | 1 |
| 5...474 | Ribe - Rio S | 3 | 83 | 0,156 | 0,572 | 0,105 | 248 | 273 | 10 % | 18000 | 0,33134 | 0,009369 | 1 |
| 5...474 | Ribe - Rio S | 4 | 83 | 0,208 | 0,572 | 0,105 | 330 | 351 | 6 % | 18000 | 0,40175 | 0,012492 | 1 |
| 5...479 | src radior | 1 | 90,8 | 0,050 | 0,285 | 0,210 | 91 | 107 | 18 % | 18000 | 0,16920 | 0,002993 | 1 |
| 5...479 | src radior | 4 | 90,8 | 0,200 | 0,285 | 0,210 | 363 | 315 | -13 % | 18000 | 0,31770 | 0,011970 | 1 |
| 5...479 | src radior | 5 | 90,8 | 0,250 | 0,285 | 0,210 | 454 | 385 | -15 % | 18000 | 0,36720 | 0,014963 | 1 |
| 5...479 | src radior | 6 | 90,8 | 0,300 | 0,285 | 0,210 | 545 | 454 | -17 % | 18000 | 0,41670 | 0,017955 | 1 |
| 5...479 | src radior | 7 | 90,8 | 0,350 | 0,285 | 0,210 | 636 | 523 | -18 % | 18000 | 0,46620 | 0,020948 | 1 |
| 5...479 | src radior | 8 | 90,8 | 0,400 | 0,285 | 0,210 | 726 | 593 | -18 % | 18000 | 0,51570 | 0,023940 | 1 |
| 5...479 | src radior | 9 | 90,8 | 0,450 | 0,285 | 0,210 | 817 | 662 | -19 % | 18000 | 0,56520 | 0,026933 | 1 |
| 5...479 | src radior | 10 | 90,8 | 0,500 | 0,285 | 0,210 | 908 | 732 | -19 % | 18000 | 0,61470 | 0,029925 | 1 |
| 5...479 | src radior | 11 | 90,8 | 0,550 | 0,285 | 0,210 | 999 | 801 | -20 % | 18000 | 0,66420 | 0,032918 | 1 |
| 5...479 | src radior | 12 | 90,8 | 0,600 | 0,285 | 0,210 | 1090 | 870 | -20 % | 18000 | 0,71370 | 0,035910 | 1 |
| 5...479 | src radior | 13 | 90,8 | 0,650 | 0,285 | 0,210 | 1180 | 940 | -20 % | 18000 | 0,76320 | 0,038903 | 1 |
| 5...479 | src radior | 14 | 90,8 | 0,700 | 0,285 | 0,210 | 1271 | 1009 | -21 % | 18000 | 0,81270 | 0,041895 | 1 |
| 5...479 | src radior | 15 | 90,8 | 0,750 | 0,285 | 0,210 | 1362 | 1079 | -21 % | 18000 | 0,86220 | 0,044888 | 1 |
| 5...479 | src radior | 16 | 90,8 | 0,800 | 0,285 | 0,210 | 1453 | 1148 | -21 % | 18000 | 0,91170 | 0,047880 | 1 |
| 5...479 | src radior | 17 | 90,8 | 0,850 | 0,285 | 0,210 | 1544 | 1218 | -21 % | 18000 | 0,96120 | 0,050873 | 1 |
| 5...479 | src radior | 18 | 90,8 | 0,900 | 0,285 | 0,210 | 1634 | 1287 | -21 % | 18000 | 1,01070 | 0,053865 | 1 |
| 5...479 | src radior | 19 | 90,8 | 0,950 | 0,285 | 0,210 | 1725 | 1356 | -21 % | 18000 | 1,06020 | 0,056858 | 1 |
| 5...479 | src radior | 20 | 90,8 | 1,000 | 0,285 | 0,210 | 1816 | 1426 | -21 % | 18000 | 1,10970 | 0,059850 | 1 |
| 5...479 | src radior | 21 | 90,8 | 1,050 | 0,285 | 0,210 | 1907 | 1495 | -22 % | 18000 | 1,15920 | 0,062843 | 1 |
| 5...479 | src radior | 22 | 90,8 | 1,100 | 0,285 | 0,210 | 1998 | 1565 | -22 % | 18000 | 1,20870 | 0,065835 | 1 |
| 5...479 | src radior | 23 | 90,8 | 1,150 | 0,285 | 0,210 | 2088 | 1634 | -22 % | 18000 | 1,25820 | 0,068828 | 1 |
| 5...479 | src radior | 24 | 90,8 | 1,200 | 0,285 | 0,210 | 2179 | 1703 | -22 % | 18000 | 1,30770 | 0,071820 | 1 |
| 5...479 | src radior | 25 | 90,8 | 1,250 | 0,285 | 0,210 | 2270 | 1773 | -22 % | 18000 | 1,35720 | 0,074813 | 1 |
| 5...479 | src radior | 26 | 90,8 | 1,300 | 0,285 | 0,210 | 2361 | 1842 | -22 % | 18000 | 1,40670 | 0,077805 | 1 |
| 5...479 | src radior | 27 | 90,8 | 1,350 | 0,285 | 0,210 | 2452 | 1912 | -22 % | 18000 | 1,45620 | 0,080798 | 1 |
| 5...479 | src radior | 28 | 90,8 | 1,400 | 0,285 | 0,210 | 2542 | 1981 | -22 % | 18000 | 1,50570 | 0,083790 | 1 |
| 5...479 | src radior | 29 | 90,8 | 1,450 | 0,285 | 0,210 | 2633 | 2050 | -22 % | 18000 | 1,55520 | 0,086783 | 1 |
| 5...474 | Ribe - Rio S | 1 | 97 | 0,052 | 0,690 | 0,105 | 97 | 139 | 44 % | 18000 | 0,22758 | 0,003767 | 1 |
| 5...474 | Ribe - Rio S | 2 | 97 | 0,104 | 0,690 | 0,105 | 193 | 233 | 21 % | 18000 | 0,31026 | 0,007535 | 1 |
| 5...474 | Ribe - Rio S | 3 | 97 | 0,156 | 0,690 | 0,105 | 290 | 327 | 13 % | 18000 | 0,39294 | 0,011302 | 1 |
| 5...474 | Ribe - Rio S | 4 | 97 | 0,208 | 0,690 | 0,105 | 386 | 421 | 9 % | 18000 | 0,47562 | 0,015070 | 1 |
| 5...474 | Ribe - Rio S | 5 | 97 | 0,260 | 0,690 | 0,105 | 483 | 514 | 7 % | 18000 | 0,55830 | 0,018837 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 1 | 98,39 | 0,050 | 0,955 | 0,060 | 98 | 119 | 21 % | 18000 | 0,21610 | 0,002865 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 2 | 98,39 | 0,100 | 0,955 | 0,060 | 197 | 203 | 3 % | 18000 | 0,31760 | 0,005730 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 3 | 98,39 | 0,150 | 0,955 | 0,060 | 295 | 286 | -3 % | 18000 | 0,41910 | 0,008595 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 4 | 98,39 | 0,200 | 0,955 | 0,060 | 394 | 370 | -6 % | 18000 | 0,52060 | 0,011460 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 5 | 98,39 | 0,250 | 0,955 | 0,060 | 492 | 453 | -8 % | 18000 | 0,62210 | 0,014325 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 6 | 98,39 | 0,300 | 0,955 | 0,060 | 590 | 537 | -9 % | 18000 | 0,72360 | 0,017190 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 7 | 98,39 | 0,350 | 0,955 | 0,060 | 689 | 620 | -10 % | 18000 | 0,82510 | 0,020055 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 8 | 98,39 | 0,400 | 0,955 | 0,060 | 787 | 704 | -11 % | 18000 | 0,92660 | 0,022920 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 9 | 98,39 | 0,450 | 0,955 | 0,060 | 886 | 787 | -11 % | 18000 | 1,02810 | 0,025785 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 10 | 98,39 | 0,500 | 0,955 | 0,060 | 984 | 870 | -12 % | 18000 | 1,12960 | 0,028650 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 11 | 98,39 | 0,550 | 0,955 | 0,060 | 1082 | 954 | -12 % | 18000 | 1,23110 | 0,031515 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 12 | 98,39 | 0,600 | 0,955 | 0,060 | 1181 | 1037 | -12 % | 18000 | 1,33260 | 0,034380 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 13 | 98,39 | 0,650 | 0,955 | 0,060 | 1279 | 1121 | -12 % | 18000 | 1,43410 | 0,037245 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 14 | 98,39 | 0,700 | 0,955 | 0,060 | 1377 | 1204 | -13 % | 18000 | 1,53560 | 0,040110 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 15 | 98,39 | 0,750 | 0,955 | 0,060 | 1476 | 1288 | -13 % | 18000 | 1,63710 | 0,042975 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 16 | 98,39 | 0,800 | 0,955 | 0,060 | 1574 | 1371 | -13 % | 18000 | 1,73860 | 0,045840 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 17 | 98,39 | 0,850 | 0,955 | 0,060 | 1673 | 1454 | -13 % | 18000 | 1,84010 | 0,048705 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 18 | 98,39 | 0,900 | 0,955 | 0,060 | 1771 | 1538 | -13 % | 18000 | 1,94160 | 0,051570 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 19 | 98,39 | 0,950 | 0,955 | 0,060 | 1869 | 1621 | -13 % | 18000 | 2,04310 | 0,054435 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 20 | 98,39 | 1,000 | 0,955 | 0,060 | 1968 | 1705 | -13 % | 18000 | 2,14460 | 0,057300 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 21 | 98,39 | 1,050 | 0,955 | 0,060 | 2066 | 1788 | -13 % | 18000 | 2,24610 | 0,060165 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 22 | 98,39 | 1,100 | 0,955 | 0,060 | 2165 | 1872 | -14 % | 18000 | 2,34760 | 0,063030 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 23 | 98,39 | 1,150 | 0,955 | 0,060 | 2263 | 1955 | -14 % | 18000 | 2,44910 | 0,065895 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 24 | 98,39 | 1,200 | 0,955 | 0,060 | 2361 | 2039 | -14 % | 18000 | 2,55060 | 0,068760 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 25 | 98,39 | 1,250 | 0,955 | 0,060 | 2460 | 2122 | -14 % | 18000 | 2,65210 | 0,071625 | 1 |
| 5...1275 | Strebel Favo (2) 2055 | 26 | 98,39 | 1,300 | 0,955 | 0,060 | 2558 | 2205 | -14 % | 18000 | 2,75360 | 0,07449 | |

| | | | | | | | | | | | | | |
|---------|--------------|----|-------|-------|-------|-------|------|------|-------|-------|---------|----------|---|
| 5...479 | src radior | 6 | 137,9 | 0,300 | 0,430 | 0,210 | 827 | 665 | -20 % | 18000 | 0,56460 | 0,027090 | 1 |
| 5...479 | src radior | 7 | 137,9 | 0,350 | 0,430 | 0,210 | 965 | 766 | -21 % | 18000 | 0,62860 | 0,031605 | 1 |
| 5...479 | src radior | 8 | 137,9 | 0,400 | 0,430 | 0,210 | 1103 | 868 | -21 % | 18000 | 0,69260 | 0,036120 | 1 |
| 5...479 | src radior | 9 | 137,9 | 0,450 | 0,430 | 0,210 | 1241 | 969 | -22 % | 18000 | 0,75660 | 0,040635 | 1 |
| 5...479 | src radior | 10 | 137,9 | 0,500 | 0,430 | 0,210 | 1379 | 1070 | -22 % | 18000 | 0,82060 | 0,045150 | 1 |
| 5...479 | src radior | 11 | 137,9 | 0,550 | 0,430 | 0,210 | 1517 | 1172 | -23 % | 18000 | 0,88460 | 0,049665 | 1 |
| 5...479 | src radior | 12 | 137,9 | 0,600 | 0,430 | 0,210 | 1655 | 1273 | -23 % | 18000 | 0,94860 | 0,051480 | 1 |
| 5...479 | src radior | 13 | 137,9 | 0,650 | 0,430 | 0,210 | 1793 | 1374 | -23 % | 18000 | 1,01260 | 0,058695 | 1 |
| 5...479 | src radior | 14 | 137,9 | 0,700 | 0,430 | 0,210 | 1931 | 1476 | -24 % | 18000 | 1,07660 | 0,063210 | 1 |
| 5...479 | src radior | 15 | 137,9 | 0,750 | 0,430 | 0,210 | 2069 | 1577 | -24 % | 18000 | 1,14060 | 0,067725 | 1 |
| 5...479 | src radior | 16 | 137,9 | 0,800 | 0,430 | 0,210 | 2206 | 1679 | -24 % | 18000 | 1,20460 | 0,072240 | 1 |
| 5...479 | src radior | 17 | 137,9 | 0,850 | 0,430 | 0,210 | 2344 | 1780 | -24 % | 18000 | 1,26860 | 0,076755 | 1 |
| 5...479 | src radior | 18 | 137,9 | 0,900 | 0,430 | 0,210 | 2482 | 1881 | -24 % | 18000 | 1,33260 | 0,081270 | 1 |
| 5...479 | src radior | 19 | 137,9 | 0,950 | 0,430 | 0,210 | 2620 | 1983 | -24 % | 18000 | 1,39660 | 0,085785 | 1 |
| 5...479 | src radior | 20 | 137,9 | 1,000 | 0,430 | 0,210 | 2758 | 2084 | -24 % | 18000 | 1,46060 | 0,090300 | 1 |
| 5...479 | src radior | 21 | 137,9 | 1,050 | 0,430 | 0,210 | 2896 | 2185 | -25 % | 18000 | 1,52460 | 0,094815 | 1 |
| 5...479 | src radior | 22 | 137,9 | 1,100 | 0,430 | 0,210 | 3034 | 2287 | -25 % | 18000 | 1,58860 | 0,099330 | 1 |
| 5...479 | src radior | 23 | 137,9 | 1,150 | 0,430 | 0,210 | 3172 | 2388 | -25 % | 18000 | 1,65260 | 0,103845 | 1 |
| 5...479 | src radior | 24 | 137,9 | 1,200 | 0,430 | 0,210 | 3310 | 2489 | -25 % | 18000 | 1,71660 | 0,108360 | 1 |
| 5...479 | src radior | 25 | 137,9 | 1,250 | 0,430 | 0,210 | 3448 | 2591 | -25 % | 18000 | 1,78060 | 0,112875 | 1 |
| 5...479 | src radior | 26 | 137,9 | 1,300 | 0,430 | 0,210 | 3585 | 2692 | -25 % | 18000 | 1,84460 | 0,117390 | 1 |
| 5...476 | Ribe - Rio S | 1 | 158 | 0,052 | 0,572 | 0,219 | 158 | 222 | 40 % | 18000 | 0,33280 | 0,006514 | 1 |
| 5...476 | Ribe - Rio S | 2 | 158 | 0,104 | 0,572 | 0,219 | 316 | 365 | 15 % | 18000 | 0,41506 | 0,013028 | 1 |
| 5...476 | Ribe - Rio S | 3 | 158 | 0,156 | 0,572 | 0,219 | 475 | 508 | 7 % | 18000 | 0,49733 | 0,019542 | 1 |
| 5...476 | Ribe - Rio S | 4 | 158 | 0,208 | 0,572 | 0,219 | 633 | 651 | 3 % | 18000 | 0,57959 | 0,026056 | 1 |
| 5...476 | Ribe - Rio S | 10 | 158 | 0,520 | 0,572 | 0,219 | 1582 | 1509 | -5 % | 18000 | 1,07318 | 0,065139 | 1 |
| 5...476 | Ribe - Rio S | 11 | 158 | 0,572 | 0,572 | 0,219 | 1740 | 1653 | -5 % | 18000 | 1,15544 | 0,071653 | 1 |
| 5...476 | Ribe - Rio S | 1 | 235 | 0,052 | 0,870 | 0,219 | 235 | 334 | 42 % | 18000 | 0,49432 | 0,009908 | 1 |
| 5...476 | Ribe - Rio S | 2 | 235 | 0,104 | 0,870 | 0,219 | 470 | 547 | 17 % | 18000 | 0,60757 | 0,019815 | 1 |
| 5...476 | Ribe - Rio S | 3 | 235 | 0,156 | 0,870 | 0,219 | 705 | 761 | 8 % | 18000 | 0,72083 | 0,029723 | 1 |
| 5...476 | Ribe - Rio S | 11 | 235 | 0,572 | 0,870 | 0,219 | 2584 | 2473 | -4 % | 18000 | 1,62688 | 0,108983 | 1 |
| 5...476 | Ribe - Rio S | 12 | 235 | 0,624 | 0,870 | 0,219 | 2819 | 2686 | -5 % | 18000 | 1,74013 | 0,118891 | 1 |
| 5...476 | Ribe - Rio S | 13 | 235 | 0,676 | 0,870 | 0,219 | 3054 | 2900 | -5 % | 18000 | 1,85339 | 0,128798 | 1 |
| 5...476 | Ribe - Rio S | 14 | 235 | 0,728 | 0,870 | 0,219 | 3289 | 3114 | -5 % | 18000 | 1,96664 | 0,138706 | 1 |

3.2 Comparative values for radiators of type 2 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|---------|---------------------|-------|----------|---------|--------|--------|-------|----------|--------------|------|-------|---------|----------|---|
| C.MID | Producer | Model | num elem | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | | | | | |
| | | | 90/70/2 | | (l) | (h) | (p) | 90/70/20 | 90/70/2 | | | | | |
| 5...937 | Union / Hilden - RI | 1 | 65 | 0,055 | 0,380 | 0,150 | | 65 | 107 | 65 % | 16900 | 0,17230 | 0,003135 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 65 | 0,110 | 0,380 | 0,150 | | 130 | 178 | 37 % | 16900 | 0,23060 | 0,006270 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 65 | 0,165 | 0,380 | 0,150 | | 195 | 250 | 28 % | 16900 | 0,28890 | 0,009405 | 2 |
| 5...937 | Union / Hilden - RI | 4 | 65 | 0,220 | 0,380 | 0,150 | | 260 | 321 | 23 % | 16900 | 0,34720 | 0,012540 | 2 |
| 5...937 | Union / Hilden - RI | 5 | 65 | 0,275 | 0,380 | 0,150 | | 325 | 392 | 21 % | 16900 | 0,40550 | 0,015675 | 2 |
| 5...937 | Union / Hilden - RI | 6 | 65 | 0,330 | 0,380 | 0,150 | | 390 | 464 | 19 % | 16900 | 0,46380 | 0,018810 | 2 |
| 5...937 | Union / Hilden - RI | 7 | 65 | 0,385 | 0,380 | 0,150 | | 455 | 535 | 18 % | 16900 | 0,52210 | 0,021945 | 2 |
| 5...937 | Union / Hilden - RI | 8 | 65 | 0,440 | 0,380 | 0,150 | | 520 | 606 | 17 % | 16900 | 0,58040 | 0,025080 | 2 |
| 5...937 | Union / Hilden - RI | 9 | 65 | 0,495 | 0,380 | 0,150 | | 585 | 677 | 16 % | 16900 | 0,63870 | 0,028215 | 2 |
| 5...937 | Union / Hilden - RI | 10 | 65 | 0,550 | 0,380 | 0,150 | | 650 | 749 | 15 % | 16900 | 0,69700 | 0,031350 | 2 |
| 5...937 | Union / Hilden - RI | 11 | 65 | 0,605 | 0,380 | 0,150 | | 715 | 820 | 15 % | 16900 | 0,75530 | 0,034485 | 2 |
| 5...937 | Union / Hilden - RI | 12 | 65 | 0,660 | 0,380 | 0,150 | | 780 | 891 | 14 % | 16900 | 0,81360 | 0,037620 | 2 |
| 5...937 | Union / Hilden - RI | 13 | 65 | 0,715 | 0,380 | 0,150 | | 845 | 963 | 14 % | 16900 | 0,87190 | 0,040755 | 2 |
| 5...937 | Union / Hilden - RI | 14 | 65 | 0,770 | 0,380 | 0,150 | | 910 | 1034 | 14 % | 16900 | 0,93020 | 0,043890 | 2 |
| 5...937 | Union / Hilden - RI | 15 | 65 | 0,825 | 0,380 | 0,150 | | 975 | 1105 | 13 % | 16900 | 0,98850 | 0,047025 | 2 |
| 5...937 | Union / Hilden - RI | 16 | 65 | 0,880 | 0,380 | 0,150 | | 1040 | 1176 | 13 % | 16900 | 1,04680 | 0,050160 | 2 |
| 5...937 | Union / Hilden - RI | 17 | 65 | 0,935 | 0,380 | 0,150 | | 1105 | 1248 | 13 % | 16900 | 1,10510 | 0,053295 | 2 |
| 5...937 | Union / Hilden - RI | 18 | 65 | 0,990 | 0,380 | 0,150 | | 1170 | 1319 | 13 % | 16900 | 1,16340 | 0,056430 | 2 |
| 5...937 | Union / Hilden - RI | 19 | 65 | 1,045 | 0,380 | 0,150 | | 1235 | 1390 | 13 % | 16900 | 1,22170 | 0,059565 | 2 |
| 5...937 | Union / Hilden - RI | 20 | 65 | 1,100 | 0,380 | 0,150 | | 1300 | 1462 | 12 % | 16900 | 1,28000 | 0,062700 | 2 |
| 5...937 | Union / Hilden - RI | 21 | 65 | 1,155 | 0,380 | 0,150 | | 1365 | 1533 | 12 % | 16900 | 1,33830 | 0,065835 | 2 |
| 5...937 | Union / Hilden - RI | 22 | 65 | 1,210 | 0,380 | 0,150 | | 1430 | 1604 | 12 % | 16900 | 1,39660 | 0,068970 | 2 |
| 5...937 | Union / Hilden - RI | 1 | 110 | 0,055 | 0,635 | 0,150 | | 110 | 175 | 60 % | 16900 | 0,27685 | 0,005239 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 110 | 0,110 | 0,635 | 0,150 | | 220 | 291 | 32 % | 16900 | 0,36320 | 0,010478 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 110 | 0,165 | 0,635 | 0,150 | | 330 | 407 | 23 % | 16900 | 0,44955 | 0,015716 | 2 |
| 5...937 | Union / Hilden - RI | 4 | 110 | 0,220 | 0,635 | 0,150 | | 440 | 522 | 19 % | 16900 | 0,53590 | 0,020955 | 2 |
| 5...937 | Union / Hilden - RI | 5 | 110 | 0,275 | 0,635 | 0,150 | | 550 | 638 | 16 % | 16900 | 0,62225 | 0,026194 | 2 |
| 5...937 | Union / Hilden - RI | 6 | 110 | 0,330 | 0,635 | 0,150 | | 660 | 754 | 14 % | 16900 | 0,70860 | 0,031433 | 2 |
| 5...937 | Union / Hilden - RI | 7 | 110 | 0,385 | 0,635 | 0,150 | | 770 | 869 | 13 % | 16900 | 0,79495 | 0,036671 | 2 |
| 5...937 | Union / Hilden - RI | 8 | 110 | 0,440 | 0,635 | 0,150 | | 880 | 985 | 12 % | 16900 | 0,88130 | 0,041910 | 2 |
| 5...937 | Union / Hilden - RI | 9 | 110 | 0,495 | 0,635 | 0,150 | | 990 | 1101 | 11 % | 16900 | 0,96765 | 0,047149 | 2 |
| 5...937 | Union / Hilden - RI | 10 | 110 | 0,550 | 0,635 | 0,150 | | 1100 | 1216 | 11 % | 16900 | 1,05400 | 0,052388 | 2 |
| 5...937 | Union / Hilden - RI | 11 | 110 | 0,605 | 0,635 | 0,150 | | 1210 | 1332 | 10 % | 16900 | 1,14035 | 0,057626 | 2 |
| 5...937 | Union / Hilden - RI | 12 | 110 | 0,660 | 0,635 | 0,150 | | 1320 | 1448 | 10 % | 16900 | 1,22670 | 0,062865 | 2 |
| 5...937 | Union / Hilden - RI | 13 | 110 | 0,715 | 0,635 | 0,150 | | 1430 | 1563 | 9 % | 16900 | 1,31305 | 0,068104 | 2 |
| 5...937 | Union / Hilden - RI | 14 | 110 | 0,770 | 0,635 | 0,150 | | 1540 | 1679 | 9 % | 16900 | 1,39940 | 0,073343 | 2 |
| 5...937 | Union / Hilden - RI | 15 | 110 | 0,825 | 0,635 | 0,150 | | 1650 | 1795 | 9 % | 16900 | 1,48575 | 0,078581 | 2 |
| 5...937 | Union / Hilden - RI | 16 | 110 | 0,880 | 0,635 | 0,150 | | 1760 | 1910 | 9 % | 16900 | 1,57210 | 0,083820 | 2 |
| 5...937 | Union / Hilden - RI | 17 | 110 | 0,935 | 0,635 | 0,150 | | 1870 | 2026 | 8 % | 16900 | 1,65845 | 0,089059 | 2 |
| 5...937 | Union / Hilden - RI | 18 | 110 | 0,990 | 0,635 | 0,150 | | 1980 | 2141 | 8 % | 16900 | 1,74480 | 0,094298 | 2 |
| 5...937 | Union / Hilden - RI | 19 | 110 | 1,045 | 0,635 | 0,150 | | 2090 | 2257 | 8 % | 16900 | 1,83115 | 0,099536 | 2 |
| 5...937 | Union / Hilden - RI | 20 | 110 | 1,100 | 0,635 | 0,150 | | 2200 | 2373 | 8 % | 16900 | 1,91750 | 0,104775 | 2 |
| 5...937 | Union / Hilden - RI | 21 | 110 | 1,155 | 0,635 | 0,150 | | 2310 | 2488 | 8 % | 16900 | 2,00385 | 0,110014 | 2 |
| 5...937 | Union / Hilden - RI | 22 | 110 | 1,210 | 0,635 | 0,150 | | 2420 | 2604 | 8 % | 16900 | 2,09020 | 0,115253 | 2 |
| 5...937 | Union / Hilden - RI | 23 | 110 | 1,265 | 0,635 | 0,150 | | 2530 | 2720 | 7 % | 16900 | 2,17655 | 0,120491 | 2 |
| 5...937 | Union / Hilden - RI | 1 | 115 | 0,055 | 0,680 | 0,150 | | 115 | 188 | 63 % | 16900 | 0,29530 | 0,005610 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 115 | 0,110 | 0,680 | 0,150 | | 230 | 311 | 35 % | 16900 | 0,38660 | 0,011220 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 115 | 0,165 | 0,680 | 0,150 | | 345 | 434 | 26 % | 16900 | 0,47790 | 0,016830 | 2 |
| 5...937 | Union / Hilden - RI | 4 | 115 | 0,220 | 0,680 | 0,150 | | 460 | 558 | 21 % | 16900 | 0,56920 | 0,022440 | 2 |
| 5...937 | Union / Hilden - RI | 5 | 115 | 0,275 | 0,680 | 0,150 | | 575 | 681 | 19 % | 16900 | 0,66050 | 0,028050 | 2 |
| 5...937 | Union / Hilden - RI | 6 | 115 | 0,330 | 0,680 | 0,150 | | 690 | 805 | 17 % | 16900 | 0,75180 | 0,033660 | 2 |
| 5...937 | Union / Hilden - RI | 7 | 115 | 0,385 | 0,680 | 0,150 | | 805 | 928 | 15 % | 16900 | 0,84310 | 0,039270 | 2 |
| 5...937 | Union / Hilden - RI | 8 | 115 | 0,440 | 0,680 | 0,150 | | 920 | 1052 | 14 % | 16900 | 0,93440 | 0,044880 | 2 |
| 5...937 | Union / Hilden - RI | 9 | 115 | 0,495 | 0,680 | 0,150 | | 1035 | 1175 | 14 % | 16900 | 1,02570 | 0,050490 | 2 |
| 5...937 | Union / Hilden - RI | 10 | 115 | 0,550 | 0,680 | 0,150 | | 1150 | 1299 | 13 % | 16900 | 1,11700 | 0,056100 | 2 |
| 5...937 | Union / Hilden - RI | 11 | 115 | 0,605 | 0,680 | 0,150 | | 1265 | 1422 | 12 % | 16900 | 1,20830 | 0,061710 | 2 |
| 5...937 | Union / Hilden - RI | 12 | 115 | 0,660 | 0,680 | 0,150 | | 1380 | 1546 | 12 % | 16900 | 1,29960 | 0,067320 | 2 |
| 5...937 | Union / Hilden - RI | 13 | 115 | 0,715 | 0,680 | 0,150 | | 1495 | 1669 | 12 % | 16900 | 1,39090 | 0,072930 | 2 |
| 5...937 | Union / Hilden - RI | 14 | 115 | 0,770 | 0,680 | 0,150 | | 1610 | 1793 | 11 % | 16900 | 1,48220 | 0,078540 | 2 |
| 5...937 | Union / Hilden - RI | 15 | 115 | 0,825 | 0,680 | 0,150 | | 1725 | 1916 | 11 % | 16900 | 1,57350 | 0,084150 | 2 |
| 5...937 | Union / Hilden - RI | 16 | 115 | 0,880 | 0,680 | 0,150 | | 1840 | 2040 | 11 % | 16900 | 1,66480 | 0,089760 | 2 |
| 5...937 | Union / Hilden - RI | 17 | 115 | 0,935 | 0,680 | 0,150 | | 1955 | 2163 | 11 % | 16900 | 1,75610 | 0,095370 | 2 |
| 5...937 | Union / Hilden - RI | 18 | 115 | 0,990 | 0,680 | 0,150 | | 2070 | 2287 | 10 % | 16900 | 1,84740 | 0,100980 | 2 |
| 5...937 | Union / Hilden - RI | 19 | 115 | 1,045 | 0,680 | 0,150 | | 2185 | 2410 | 10 % | 16900 | 1,93870 | 0,106590 | 2 |
| 5...937 | Union / Hilden - RI | 20 | 115 | 1,100 | 0,680 | 0,150 | | 2300 | 2534 | 10 % | 16900 | 2,03000 | 0,112200 | 2 |
| 5...937 | Union / Hilden - RI | 21 | 115 | 1,155 | 0,680 | 0,150 | | 2415 | 2657 | 10 % | 16900 | 2,12130 | 0,117810 | 2 |
| 5...937 | Union / Hilden - RI | 22 | 115 | 1,210 | 0,680 | 0,150 | | 2530 | 2781 | 10 % | 16900 | 2,21260 | 0,123420 | 2 |
| 5...937 | Union / Hilden - RI | 23 | 115 | 1,265 | 0,680 | 0,150 | | 2645 | 2904 | 10 % | 16900 | 2,30390 | 0,129030 | 2 |
| 5...937 | Union / Hilden - RI | 1 | 190 | 0,055 | 1,180 | 0,150 | | 190 | 322 | 69 % | 16900 | 0,50030 | 0,009735 | 2 |
| 5...937 | Union / Hilden - RI | 1 | 190 | 0,055 | 1,180 | 0,150 | | 190 | 322 | 69 % | 16900 | 0,50030 | 0,009735 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 190 | 0,110 | 1,180 | 0,150 | | 380 | 532 | 40 % | 16900 | 0,64660 | 0,019470 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 190 | 0,110 | 1,180 | 0,150 | | 380 | 532 | 40 % | 16900 | 0,64660 | 0,019470 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 190 | 0,165 | 1,180 | 0,150 | | 570 | 743 | 30 % | 16900 | 0,79290 | 0,029205 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 190 | 0,165 | 1,180 | 0,150 | | | | | | | | |

| | | | | | | | | | | | | | |
|---------|---------------------|----|-----|-------|-------|-------|------|------|-------------|-------|---------|----------|---|
| 5...937 | Union / Hilden - RI | 17 | 190 | 0,935 | 1,180 | 0,150 | 3230 | 3689 | 14 % | 16900 | 2,84110 | 0,165495 | 2 |
| 5...937 | Union / Hilden - RI | 17 | 190 | 0,935 | 1,180 | 0,150 | 3230 | 3689 | 14 % | 16900 | 2,84110 | 0,165495 | 2 |
| 5...937 | Union / Hilden - RI | 18 | 190 | 0,990 | 1,180 | 0,150 | 3420 | 3899 | 14 % | 16900 | 2,98740 | 0,175230 | 2 |
| 5...937 | Union / Hilden - RI | 18 | 190 | 0,990 | 1,180 | 0,150 | 3420 | 3899 | 14 % | 16900 | 2,98740 | 0,175230 | 2 |
| 5...937 | Union / Hilden - RI | 19 | 190 | 1,045 | 1,180 | 0,150 | 3610 | 4110 | 14 % | 16900 | 3,13370 | 0,184965 | 2 |
| 5...937 | Union / Hilden - RI | 19 | 190 | 1,045 | 1,180 | 0,150 | 3610 | 4110 | 14 % | 16900 | 3,13370 | 0,184965 | 2 |
| 5...937 | Union / Hilden - RI | 20 | 190 | 1,100 | 1,180 | 0,150 | 3800 | 4320 | 14 % | 16900 | 3,28000 | 0,194700 | 2 |
| 5...937 | Union / Hilden - RI | 20 | 190 | 1,100 | 1,180 | 0,150 | 3800 | 4320 | 14 % | 16900 | 3,28000 | 0,194700 | 2 |
| 5...937 | Union / Hilden - RI | 21 | 190 | 1,155 | 1,180 | 0,150 | 3990 | 4531 | 14 % | 16900 | 3,42630 | 0,204435 | 2 |
| 5...937 | Union / Hilden - RI | 21 | 190 | 1,155 | 1,180 | 0,150 | 3990 | 4531 | 14 % | 16900 | 3,42630 | 0,204435 | 2 |
| 5...937 | Union / Hilden - RI | 1 | 220 | 0,055 | 0,775 | 0,250 | 220 | 337 | 53 % | 16900 | 0,50025 | 0,010656 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 220 | 0,110 | 0,775 | 0,250 | 440 | 553 | 26 % | 16900 | 0,61300 | 0,021313 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 220 | 0,165 | 0,775 | 0,250 | 660 | 768 | 16 % | 16900 | 0,72575 | 0,031969 | 2 |
| 5...937 | Union / Hilden - RI | 4 | 220 | 0,220 | 0,775 | 0,250 | 880 | 984 | 12 % | 16900 | 0,83850 | 0,042625 | 2 |
| 5...937 | Union / Hilden - RI | 1 | 335 | 0,055 | 1,180 | 0,250 | 335 | 509 | 52 % | 16900 | 0,74730 | 0,016225 | 2 |
| 5...937 | Union / Hilden - RI | 2 | 335 | 0,110 | 1,180 | 0,250 | 670 | 832 | 24 % | 16900 | 0,90460 | 0,032450 | 2 |
| 5...937 | Union / Hilden - RI | 3 | 335 | 0,165 | 1,180 | 0,250 | 1005 | 1156 | 15 % | 16900 | 1,06190 | 0,048675 | 2 |
| 5...937 | Union / Hilden - RI | 4 | 335 | 0,220 | 1,180 | 0,250 | 1340 | 1480 | 10 % | 16900 | 1,21920 | 0,064900 | 2 |
| 5...937 | Union / Hilden - RI | 5 | 335 | 0,275 | 1,180 | 0,250 | 1675 | 1803 | 8 % | 16900 | 1,37650 | 0,081125 | 2 |
| 5...937 | Union / Hilden - RI | 6 | 335 | 0,330 | 1,180 | 0,250 | 2010 | 2127 | 6 % | 16900 | 1,53380 | 0,097350 | 2 |

3.3 Comparative values for radiators of type 3 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|--------|----------------|-------|------|---------|-----------|--------|-------|----------|--------------|-----------------|-------------------|-------------------|----------|---|
| C..MID | Producer | Model | num. | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | coefficient (k) | surface (S) | volume (V) | | |
| | | | | 90/70/2 | (l) | (h) | (p) | 90/70/20 | 90/70/2 | UNI 1020 | (m ²) | (m ³) | type | |
| 5..975 | Union / Hilden | 1 | 130 | 0,076 | 0,500 | 0,233 | | 130 | 245 | 89 % | 15500 | 0,34442 | 0,008854 | 3 |
| 5..975 | Union / Hilden | 2 | 130 | 0,152 | 0,500 | 0,233 | | 260 | 418 | 61 % | 15500 | 0,45583 | 0,01708 | 3 |
| 5..975 | Union / Hilden | 3 | 130 | 0,228 | 0,500 | 0,233 | | 390 | 590 | 51 % | 15500 | 0,56725 | 0,026562 | 3 |
| 5..975 | Union / Hilden | 4 | 130 | 0,304 | 0,500 | 0,233 | | 520 | 762 | 47 % | 15500 | 0,67866 | 0,035416 | 3 |
| 5..975 | Union / Hilden | 5 | 130 | 0,380 | 0,500 | 0,233 | | 650 | 934 | 44 % | 15500 | 0,79008 | 0,044270 | 3 |
| 5..975 | Union / Hilden | 6 | 130 | 0,456 | 0,500 | 0,233 | | 780 | 1106 | 42 % | 15500 | 0,90150 | 0,053124 | 3 |
| 5..975 | Union / Hilden | 7 | 130 | 0,532 | 0,500 | 0,233 | | 910 | 1279 | 41 % | 15500 | 1,01291 | 0,061978 | 3 |
| 5..975 | Union / Hilden | 8 | 130 | 0,608 | 0,500 | 0,233 | | 1040 | 1451 | 40 % | 15500 | 1,12433 | 0,070832 | 3 |
| 5..975 | Union / Hilden | 9 | 130 | 0,684 | 0,500 | 0,233 | | 1170 | 1623 | 39 % | 15500 | 1,23574 | 0,079686 | 3 |
| 5..975 | Union / Hilden | 10 | 130 | 0,760 | 0,500 | 0,233 | | 1300 | 1795 | 38 % | 15500 | 1,34716 | 0,088540 | 3 |
| 5..975 | Union / Hilden | 11 | 130 | 0,836 | 0,500 | 0,233 | | 1430 | 1968 | 38 % | 15500 | 1,45858 | 0,097394 | 3 |
| 5..975 | Union / Hilden | 12 | 130 | 0,912 | 0,500 | 0,233 | | 1560 | 2140 | 37 % | 15500 | 1,56999 | 0,106248 | 3 |
| 5..975 | Union / Hilden | 13 | 130 | 0,988 | 0,500 | 0,233 | | 1690 | 2312 | 37 % | 15500 | 1,68141 | 0,115102 | 3 |
| 5..975 | Union / Hilden | 14 | 130 | 1,064 | 0,500 | 0,233 | | 1820 | 2484 | 36 % | 15500 | 1,79282 | 0,123956 | 3 |
| 5..975 | Union / Hilden | 15 | 130 | 1,140 | 0,500 | 0,233 | | 1950 | 2656 | 36 % | 15500 | 1,90424 | 0,132810 | 3 |
| 5..975 | Union / Hilden | 16 | 130 | 1,216 | 0,500 | 0,233 | | 2080 | 2829 | 36 % | 15500 | 2,01566 | 0,141664 | 3 |
| 5..975 | Union / Hilden | 17 | 130 | 1,292 | 0,500 | 0,233 | | 2210 | 3001 | 36 % | 15500 | 2,12707 | 0,150518 | 3 |
| 5..975 | Union / Hilden | 18 | 130 | 1,368 | 0,500 | 0,233 | | 2340 | 3173 | 36 % | 15500 | 2,23849 | 0,159372 | 3 |
| 5..975 | Union / Hilden | 19 | 130 | 1,444 | 0,500 | 0,233 | | 2470 | 3345 | 35 % | 15500 | 2,34990 | 0,168226 | 3 |
| 5..975 | Union / Hilden | 20 | 130 | 1,520 | 0,500 | 0,233 | | 2600 | 3518 | 35 % | 15500 | 2,46132 | 0,177080 | 3 |
| 5..975 | Union / Hilden | 21 | 130 | 1,596 | 0,500 | 0,233 | | 2730 | 3690 | 35 % | 15500 | 2,57274 | 0,185934 | 3 |
| 5..975 | Union / Hilden | 22 | 130 | 1,672 | 0,500 | 0,233 | | 2860 | 3862 | 35 % | 15500 | 2,68415 | 0,194768 | 3 |
| 5..975 | Union / Hilden | 23 | 130 | 1,748 | 0,500 | 0,233 | | 2990 | 4034 | 35 % | 15500 | 2,79557 | 0,203642 | 3 |
| 5..975 | Union / Hilden | 24 | 130 | 1,824 | 0,500 | 0,233 | | 3120 | 4206 | 35 % | 15500 | 2,90698 | 0,212496 | 3 |
| 5..975 | Union / Hilden | 25 | 130 | 1,900 | 0,500 | 0,233 | | 3250 | 4379 | 35 % | 15500 | 3,01840 | 0,221350 | 3 |
| 5..975 | Union / Hilden | 26 | 130 | 1,976 | 0,500 | 0,233 | | 3380 | 4551 | 35 % | 15500 | 3,12982 | 0,230204 | 3 |
| 5..975 | Union / Hilden | 27 | 130 | 2,052 | 0,500 | 0,233 | | 3510 | 4723 | 35 % | 15500 | 3,24123 | 0,239058 | 3 |
| 5..975 | Union / Hilden | 28 | 130 | 2,128 | 0,500 | 0,233 | | 3640 | 4895 | 34 % | 15500 | 3,35265 | 0,247912 | 3 |
| 5..975 | Union / Hilden | 29 | 130 | 2,204 | 0,500 | 0,233 | | 3770 | 5068 | 34 % | 15500 | 3,46406 | 0,256766 | 3 |
| 5..975 | Union / Hilden | 30 | 130 | 2,280 | 0,500 | 0,233 | | 3900 | 5240 | 34 % | 15500 | 3,57548 | 0,265620 | 3 |
| 5..975 | Union / Hilden | 1 | 180 | 0,076 | 0,690 | 0,233 | | 180 | 334 | 86 % | 15500 | 0,46184 | 0,012219 | 3 |
| 5..975 | Union / Hilden | 2 | 180 | 0,152 | 0,690 | 0,233 | | 360 | 568 | 58 % | 15500 | 0,60213 | 0,024437 | 3 |
| 5..975 | Union / Hilden | 3 | 180 | 0,228 | 0,690 | 0,233 | | 540 | 801 | 48 % | 15500 | 0,74243 | 0,036656 | 3 |
| 5..975 | Union / Hilden | 4 | 180 | 0,304 | 0,690 | 0,233 | | 720 | 1035 | 44 % | 15500 | 0,88272 | 0,048874 | 3 |
| 5..975 | Union / Hilden | 5 | 180 | 0,380 | 0,690 | 0,233 | | 900 | 1268 | 41 % | 15500 | 1,02302 | 0,061093 | 3 |
| 5..975 | Union / Hilden | 6 | 180 | 0,456 | 0,690 | 0,233 | | 1080 | 1502 | 39 % | 15500 | 1,16332 | 0,073311 | 3 |
| 5..975 | Union / Hilden | 7 | 180 | 0,532 | 0,690 | 0,233 | | 1260 | 1735 | 38 % | 15500 | 1,30361 | 0,085530 | 3 |
| 5..975 | Union / Hilden | 8 | 180 | 0,608 | 0,690 | 0,233 | | 1440 | 1968 | 37 % | 15500 | 1,44391 | 0,097748 | 3 |
| 5..975 | Union / Hilden | 9 | 180 | 0,684 | 0,690 | 0,233 | | 1620 | 2202 | 36 % | 15500 | 1,58420 | 0,109967 | 3 |
| 5..975 | Union / Hilden | 10 | 180 | 0,760 | 0,690 | 0,233 | | 1800 | 2435 | 35 % | 15500 | 1,72450 | 0,122185 | 3 |
| 5..975 | Union / Hilden | 11 | 180 | 0,836 | 0,690 | 0,233 | | 1980 | 2669 | 35 % | 15500 | 1,86480 | 0,134404 | 3 |
| 5..975 | Union / Hilden | 12 | 180 | 0,912 | 0,690 | 0,233 | | 2160 | 2902 | 34 % | 15500 | 2,00509 | 0,146622 | 3 |
| 5..975 | Union / Hilden | 13 | 180 | 0,988 | 0,690 | 0,233 | | 2340 | 3136 | 34 % | 15500 | 2,14539 | 0,158841 | 3 |
| 5..975 | Union / Hilden | 14 | 180 | 1,064 | 0,690 | 0,233 | | 2520 | 3369 | 34 % | 15500 | 2,28568 | 0,171059 | 3 |
| 5..975 | Union / Hilden | 15 | 180 | 1,140 | 0,690 | 0,233 | | 2700 | 3603 | 33 % | 15500 | 2,42598 | 0,183278 | 3 |
| 5..975 | Union / Hilden | 16 | 180 | 1,216 | 0,690 | 0,233 | | 2880 | 3836 | 33 % | 15500 | 2,56628 | 0,195496 | 3 |
| 5..975 | Union / Hilden | 17 | 180 | 1,292 | 0,690 | 0,233 | | 3060 | 4069 | 33 % | 15500 | 2,70657 | 0,207715 | 3 |
| 5..975 | Union / Hilden | 18 | 180 | 1,368 | 0,690 | 0,233 | | 3240 | 4303 | 33 % | 15500 | 2,84687 | 0,219933 | 3 |
| 5..975 | Union / Hilden | 19 | 180 | 1,444 | 0,690 | 0,233 | | 3420 | 4536 | 33 % | 15500 | 2,98716 | 0,232152 | 3 |
| 5..975 | Union / Hilden | 20 | 180 | 1,520 | 0,690 | 0,233 | | 3600 | 4770 | 32 % | 15500 | 3,12746 | 0,244370 | 3 |
| 5..975 | Union / Hilden | 21 | 180 | 1,596 | 0,690 | 0,233 | | 3780 | 5003 | 32 % | 15500 | 3,26776 | 0,256589 | 3 |
| 5..975 | Union / Hilden | 22 | 180 | 1,672 | 0,690 | 0,233 | | 3960 | 5237 | 32 % | 15500 | 3,40805 | 0,268807 | 3 |
| 5..975 | Union / Hilden | 23 | 180 | 1,748 | 0,690 | 0,233 | | 4140 | 5470 | 32 % | 15500 | 3,54835 | 0,281026 | 3 |
| 5..975 | Union / Hilden | 24 | 180 | 1,824 | 0,690 | 0,233 | | 4320 | 5704 | 32 % | 15500 | 3,68864 | 0,293244 | 3 |
| 5..975 | Union / Hilden | 25 | 180 | 1,900 | 0,690 | 0,233 | | 4500 | 5937 | 32 % | 15500 | 3,82894 | 0,305463 | 3 |
| 5..975 | Union / Hilden | 26 | 180 | 1,976 | 0,690 | 0,233 | | 4680 | 6170 | 32 % | 15500 | 3,96924 | 0,317682 | 3 |
| 5..975 | Union / Hilden | 27 | 180 | 2,052 | 0,690 | 0,233 | | 4860 | 6404 | 32 % | 15500 | 4,10953 | 0,329900 | 3 |
| 5..969 | Union / Hilden | 1 | 185 | 0,080 | 0,585 | 0,245 | | 185 | 309 | 67 % | 15500 | 0,41945 | 0,011466 | 3 |
| 5..969 | Union / Hilden | 2 | 185 | 0,160 | 0,585 | 0,245 | | 370 | 529 | 43 % | 15500 | 0,55225 | 0,022932 | 3 |
| 5..969 | Union / Hilden | 3 | 185 | 0,240 | 0,585 | 0,245 | | 555 | 748 | 35 % | 15500 | 0,68505 | 0,034398 | 3 |
| 5..969 | Union / Hilden | 4 | 185 | 0,320 | 0,585 | 0,245 | | 740 | 968 | 31 % | 15500 | 0,81785 | 0,045864 | 3 |
| 5..969 | Union / Hilden | 5 | 185 | 0,400 | 0,585 | 0,245 | | 925 | 1187 | 28 % | 15500 | 0,95065 | 0,057330 | 3 |
| 5..969 | Union / Hilden | 6 | 185 | 0,480 | 0,585 | 0,245 | | 1110 | 1407 | 27 % | 15500 | 1,08345 | 0,068796 | 3 |
| 5..969 | Union / Hilden | 7 | 185 | 0,560 | 0,585 | 0,245 | | 1295 | 1626 | 26 % | 15500 | 1,21625 | 0,080262 | 3 |
| 5..969 | Union / Hilden | 8 | 185 | 0,640 | 0,585 | 0,245 | | 1480 | 1845 | 25 % | 15500 | 1,34905 | 0,091728 | 3 |
| 5..969 | Union / Hilden | 9 | 185 | 0,720 | 0,585 | 0,245 | | 1665 | 2065 | 24 % | 15500 | 1,48185 | 0,103194 | 3 |
| 5..969 | Union / Hilden | 10 | 185 | 0,800 | 0,585 | 0,245 | | 1850 | 2284 | 23 % | 15500 | 1,61465 | 0,114660 | 3 |
| 5..969 | Union / Hilden | 11 | 185 | 0,880 | 0,585 | 0,245 | | 2035 | 2504 | 23 % | 15500 | 1,74745 | 0,126126 | 3 |
| 5..969 | Union / Hilden | 12 | 185 | 0,960 | 0,585 | 0,245 | | 2220 | 2723 | 23 % | 15500 | 1,88025 | 0,137592 | 3 |
| 5..969 | Union / Hilden | 13 | 185 | 1,040 | 0,585 | 0,245 | | 2405 | 2942 | 22 % | 15500 | 2,01305 | 0,149058 | 3 |
| 5..969 | Union / Hilden | 14 | 185 | 1,120 | 0,585 | 0,245 | | 2590 | 3162 | 22 % | 15500 | 2,14585 | 0,160524 | 3 |
| 5..969 | Union / Hilden | 15 | 185 | 1,200 | 0,585 | 0,245 | | 2775 | 3381 | 22 % | 15500 | 2,27865 | 0,171990 | 3 |
| 5..969 | Union / Hilden | 16 | 185 | 1,280 | 0,585 | 0,245 | | 2960 | 3601 | 22 % | 15500 | 2,41145 | 0,183456 | 3 |
| 5..969 | Union / Hilden | 17 | 185 | 1,360 | 0,585</td | | | | | | | | | |

| | | | | | | | | | | | | | |
|---------|-------------------------|----|-----|-------|-------|-------|------|-------|------|-------|---------|----------|---|
| 5...976 | Union / Hilden | 27 | 205 | 2,430 | 0,500 | 0,327 | 5535 | 7523 | 36 % | 15500 | 4,34622 | 0,397305 | 3 |
| 5...976 | Union / Hilden | 28 | 205 | 2,520 | 0,500 | 0,327 | 5740 | 7798 | 36 % | 15500 | 4,49508 | 0,412020 | 3 |
| 5...976 | Union / Hilden | 29 | 205 | 2,610 | 0,500 | 0,327 | 5945 | 8073 | 36 % | 15500 | 4,64394 | 0,426735 | 3 |
| 5...644 | Union / Hilden -America | 1 | 235 | 0,080 | 1,130 | 0,180 | 235 | 446 | 90 % | 15500 | 0,61640 | 0,016272 | 3 |
| 5...644 | Union / Hilden -America | 2 | 235 | 0,160 | 1,130 | 0,180 | 470 | 764 | 63 % | 15500 | 0,82600 | 0,032544 | 3 |
| 5...644 | Union / Hilden -America | 3 | 235 | 0,240 | 1,130 | 0,180 | 705 | 1082 | 53 % | 15500 | 1,03560 | 0,048816 | 3 |
| 5...644 | Union / Hilden -America | 4 | 235 | 0,320 | 1,130 | 0,180 | 940 | 1400 | 49 % | 15500 | 1,24520 | 0,065088 | 3 |
| 5...644 | Union / Hilden -America | 5 | 235 | 0,400 | 1,130 | 0,180 | 1175 | 1718 | 46 % | 15500 | 1,45480 | 0,081360 | 3 |
| 5...644 | Union / Hilden -America | 6 | 235 | 0,480 | 1,130 | 0,180 | 1410 | 2036 | 44 % | 15500 | 1,66440 | 0,097632 | 3 |
| 5...644 | Union / Hilden -America | 7 | 235 | 0,560 | 1,130 | 0,180 | 1645 | 2354 | 43 % | 15500 | 1,87400 | 0,113904 | 3 |
| 5...644 | Union / Hilden -America | 8 | 235 | 0,640 | 1,130 | 0,180 | 1880 | 2672 | 42 % | 15500 | 2,08360 | 0,130176 | 3 |
| 5...644 | Union / Hilden -America | 9 | 235 | 0,720 | 1,130 | 0,180 | 2115 | 2990 | 41 % | 15500 | 2,29320 | 0,146448 | 3 |
| 5...644 | Union / Hilden -America | 10 | 235 | 0,800 | 1,130 | 0,180 | 2350 | 3308 | 41 % | 15500 | 2,50280 | 0,162720 | 3 |
| 5...644 | Union / Hilden -America | 11 | 235 | 0,880 | 1,130 | 0,180 | 2585 | 3626 | 40 % | 15500 | 2,71240 | 0,178992 | 3 |
| 5...644 | Union / Hilden -America | 12 | 235 | 0,960 | 1,130 | 0,180 | 2820 | 3944 | 40 % | 15500 | 2,92200 | 0,195264 | 3 |
| 5...975 | Union / Hilden | 1 | 240 | 0,076 | 0,900 | 0,233 | 240 | 433 | 80 % | 15500 | 0,59162 | 0,015937 | 3 |
| 5...975 | Union / Hilden | 2 | 240 | 0,152 | 0,900 | 0,233 | 480 | 734 | 53 % | 15500 | 0,76383 | 0,031874 | 3 |
| 5...975 | Union / Hilden | 3 | 240 | 0,228 | 0,900 | 0,233 | 720 | 1035 | 44 % | 15500 | 0,93605 | 0,047812 | 3 |
| 5...975 | Union / Hilden | 4 | 240 | 0,304 | 0,900 | 0,233 | 960 | 1336 | 39 % | 15500 | 1,10826 | 0,063749 | 3 |
| 5...975 | Union / Hilden | 5 | 240 | 0,380 | 0,900 | 0,233 | 1200 | 1637 | 36 % | 15500 | 1,28048 | 0,079686 | 3 |
| 5...975 | Union / Hilden | 6 | 240 | 0,456 | 0,900 | 0,233 | 1440 | 1938 | 35 % | 15500 | 1,45270 | 0,095623 | 3 |
| 5...975 | Union / Hilden | 7 | 240 | 0,532 | 0,900 | 0,233 | 1680 | 2239 | 33 % | 15500 | 1,62491 | 0,111560 | 3 |
| 5...975 | Union / Hilden | 8 | 240 | 0,608 | 0,900 | 0,233 | 1920 | 2541 | 32 % | 15500 | 1,79713 | 0,127498 | 3 |
| 5...975 | Union / Hilden | 9 | 240 | 0,684 | 0,900 | 0,233 | 2160 | 2842 | 32 % | 15500 | 1,96934 | 0,143435 | 3 |
| 5...975 | Union / Hilden | 10 | 240 | 0,760 | 0,900 | 0,233 | 2400 | 3143 | 31 % | 15500 | 2,14156 | 0,159372 | 3 |
| 5...975 | Union / Hilden | 11 | 240 | 0,836 | 0,900 | 0,233 | 2640 | 3444 | 30 % | 15500 | 2,31378 | 0,175309 | 3 |
| 5...975 | Union / Hilden | 12 | 240 | 0,912 | 0,900 | 0,233 | 2880 | 3745 | 30 % | 15500 | 2,48599 | 0,191246 | 3 |
| 5...975 | Union / Hilden | 13 | 240 | 0,988 | 0,900 | 0,233 | 3120 | 4046 | 30 % | 15500 | 2,65821 | 0,207184 | 3 |
| 5...975 | Union / Hilden | 14 | 240 | 1,064 | 0,900 | 0,233 | 3360 | 4347 | 29 % | 15500 | 2,83042 | 0,223121 | 3 |
| 5...975 | Union / Hilden | 15 | 240 | 1,140 | 0,900 | 0,233 | 3600 | 4648 | 29 % | 15500 | 3,00264 | 0,239058 | 3 |
| 5...975 | Union / Hilden | 16 | 240 | 1,216 | 0,900 | 0,233 | 3840 | 4949 | 29 % | 15500 | 3,17486 | 0,254995 | 3 |
| 5...975 | Union / Hilden | 17 | 240 | 1,292 | 0,900 | 0,233 | 4080 | 5250 | 29 % | 15500 | 3,34707 | 0,270932 | 3 |
| 5...975 | Union / Hilden | 18 | 240 | 1,368 | 0,900 | 0,233 | 4320 | 5552 | 29 % | 15500 | 3,51929 | 0,286870 | 3 |
| 5...975 | Union / Hilden | 19 | 240 | 1,444 | 0,900 | 0,233 | 4560 | 5853 | 28 % | 15500 | 3,69150 | 0,302807 | 3 |
| 5...975 | Union / Hilden | 20 | 240 | 1,520 | 0,900 | 0,233 | 4800 | 6154 | 28 % | 15500 | 3,86372 | 0,318744 | 3 |
| 5...975 | Union / Hilden | 21 | 240 | 1,596 | 0,900 | 0,233 | 5040 | 6455 | 28 % | 15500 | 4,03594 | 0,334681 | 3 |
| 5...975 | Union / Hilden | 22 | 240 | 1,672 | 0,900 | 0,233 | 5280 | 6756 | 28 % | 15500 | 4,20815 | 0,350618 | 3 |
| 5...975 | Union / Hilden | 23 | 240 | 1,748 | 0,900 | 0,233 | 5520 | 7057 | 28 % | 15500 | 4,38037 | 0,366556 | 3 |
| 5...976 | Union / Hilden | 1 | 325 | 0,090 | 0,750 | 0,327 | 325 | 557 | 71 % | 15500 | 0,68436 | 0,022073 | 3 |
| 5...976 | Union / Hilden | 2 | 325 | 0,180 | 0,750 | 0,327 | 650 | 960 | 48 % | 15500 | 0,87822 | 0,041415 | 3 |
| 5...976 | Union / Hilden | 3 | 325 | 0,270 | 0,750 | 0,327 | 975 | 1363 | 40 % | 15500 | 1,07208 | 0,066218 | 3 |
| 5...976 | Union / Hilden | 4 | 325 | 0,360 | 0,750 | 0,327 | 1300 | 1766 | 36 % | 15500 | 1,26594 | 0,088290 | 3 |
| 5...976 | Union / Hilden | 5 | 325 | 0,450 | 0,750 | 0,327 | 1625 | 2169 | 33 % | 15500 | 1,45980 | 0,110363 | 3 |
| 5...976 | Union / Hilden | 6 | 325 | 0,540 | 0,750 | 0,327 | 1950 | 2572 | 32 % | 15500 | 1,65366 | 0,132435 | 3 |
| 5...976 | Union / Hilden | 7 | 325 | 0,630 | 0,750 | 0,327 | 2275 | 2975 | 31 % | 15500 | 1,84752 | 0,154508 | 3 |
| 5...976 | Union / Hilden | 8 | 325 | 0,720 | 0,750 | 0,327 | 2600 | 3378 | 30 % | 15500 | 2,04138 | 0,176580 | 3 |
| 5...976 | Union / Hilden | 9 | 325 | 0,810 | 0,750 | 0,327 | 2925 | 3781 | 29 % | 15500 | 2,23524 | 0,198653 | 3 |
| 5...976 | Union / Hilden | 10 | 325 | 0,900 | 0,750 | 0,327 | 3250 | 4184 | 29 % | 15500 | 2,42910 | 0,220725 | 3 |
| 5...976 | Union / Hilden | 11 | 325 | 0,990 | 0,750 | 0,327 | 3575 | 4587 | 28 % | 15500 | 2,62296 | 0,242798 | 3 |
| 5...976 | Union / Hilden | 12 | 325 | 1,080 | 0,750 | 0,327 | 3900 | 4990 | 28 % | 15500 | 2,81682 | 0,264870 | 3 |
| 5...976 | Union / Hilden | 13 | 325 | 1,170 | 0,750 | 0,327 | 4225 | 5393 | 28 % | 15500 | 3,01068 | 0,286943 | 3 |
| 5...976 | Union / Hilden | 14 | 325 | 1,260 | 0,750 | 0,327 | 4550 | 5796 | 27 % | 15500 | 3,20454 | 0,309015 | 3 |
| 5...976 | Union / Hilden | 15 | 325 | 1,350 | 0,750 | 0,327 | 4875 | 6199 | 27 % | 15500 | 3,39840 | 0,331088 | 3 |
| 5...976 | Union / Hilden | 16 | 325 | 1,440 | 0,750 | 0,327 | 5200 | 6602 | 27 % | 15500 | 3,59226 | 0,353160 | 3 |
| 5...976 | Union / Hilden | 17 | 325 | 1,530 | 0,750 | 0,327 | 5525 | 7005 | 27 % | 15500 | 3,78612 | 0,375233 | 3 |
| 5...976 | Union / Hilden | 18 | 325 | 1,620 | 0,750 | 0,327 | 5850 | 7408 | 27 % | 15500 | 3,97998 | 0,397305 | 3 |
| 5...976 | Union / Hilden | 19 | 325 | 1,710 | 0,750 | 0,327 | 6175 | 7811 | 26 % | 15500 | 4,17384 | 0,419378 | 3 |
| 5...976 | Union / Hilden | 20 | 325 | 1,800 | 0,750 | 0,327 | 6500 | 8214 | 26 % | 15500 | 4,36770 | 0,441450 | 3 |
| 5...976 | Union / Hilden | 21 | 325 | 1,890 | 0,750 | 0,327 | 6825 | 8617 | 26 % | 15500 | 4,56156 | 0,463523 | 3 |
| 5...976 | Union / Hilden | 22 | 325 | 1,980 | 0,750 | 0,327 | 7150 | 9020 | 26 % | 15500 | 4,75542 | 0,485595 | 3 |
| 5...976 | Union / Hilden | 23 | 325 | 2,070 | 0,750 | 0,327 | 7475 | 9423 | 26 % | 15500 | 4,94928 | 0,507668 | 3 |
| 5...976 | Union / Hilden | 24 | 325 | 2,160 | 0,750 | 0,327 | 7800 | 9826 | 26 % | 15500 | 5,14314 | 0,529740 | 3 |
| 5...976 | Union / Hilden | 25 | 325 | 2,250 | 0,750 | 0,327 | 8125 | 10229 | 26 % | 15500 | 5,33700 | 0,551813 | 3 |
| 5...976 | Union / Hilden | 26 | 325 | 2,340 | 0,750 | 0,327 | 8450 | 10632 | 26 % | 15500 | 5,53086 | 0,573885 | 3 |
| 5...976 | Union / Hilden | 27 | 325 | 2,430 | 0,750 | 0,327 | 8775 | 11035 | 26 % | 15500 | 5,72472 | 0,595598 | 3 |
| 5...976 | Union / Hilden | 1 | 395 | 0,090 | 0,900 | 0,327 | 395 | 665 | 68 % | 15500 | 0,80946 | 0,026487 | 3 |
| 5...976 | Union / Hilden | 2 | 395 | 0,180 | 0,900 | 0,327 | 790 | 1145 | 45 % | 15500 | 1,03032 | 0,052974 | 3 |
| 5...976 | Union / Hilden | 3 | 395 | 0,270 | 0,900 | 0,327 | 1185 | 1625 | 37 % | 15500 | 1,25118 | 0,079461 | 3 |
| 5...976 | Union / Hilden | 4 | 395 | 0,360 | 0,900 | 0,327 | 1580 | 2104 | 33 % | 15500 | 1,47204 | 0,105948 | 3 |
| 5...976 | Union / Hilden | 5 | 395 | 0,450 | 0,900 | 0,327 | 1975 | 2584 | 31 % | 15500 | 1,69290 | 0,132435 | 3 |
| 5...976 | Union / Hilden | 6 | 395 | 0,540 | 0,900 | 0,327 | 2370 | 3064 | 29 % | 15500 | 1,91376 | 0,158922 | 3 |
| 5...976 | Union / Hilden | 7 | 395 | 0,630 | 0,900 | 0,327 | 2765 | 3544 | 28 % | 15500 | 2,13462 | 0,185409 | 3 |
| 5...976 | Union / Hilden | 8 | 395 | 0,720 | 0,900 | 0,327 | 3160 | 4024 | 27 % | 15500 | 2,35548 | 0,211896 | 3 |
| 5...976 | Union / Hilden | 9 | 395 | 0,810 | 0,900 | 0,327 | 3555 | 4504 | 27 % | 15500 | 2,57634 | 0,238383 | 3 |
| 5...976 | Union / Hilden | 10 | 395 | 0,900 | 0,900 | 0,327 | 3950 | 4984 | 26 % | 15500 | 2,79720 | 0,264870 | 3 |
| 5...976 | Union / Hilden | 11 | 395 | 0,990 | 0,900 | 0,327 | 4345 | 5464 | 26 % | 15500 | 3,01806 | 0,291357 | 3 |
| 5...976 | Union / Hilden | 12 | 395 | 1,080 | 0,900 | 0,327 | 4740 | 5944 | 25 % | 15500 | 3,23892 | 0,317844 | 3 |
| 5...976 | Union / Hilden | 13 | 395 | 1,170 | 0,900 | 0,327 | 5135 | 6424 | 25 % | 15500 | 3,45978 | 0,344331 | 3 |
| 5...976 | Union / Hilden | 14 | 395 | 1,260 | 0,900 | 0,327 | 5530 | 6903 | 25 % | 15500 | 3,68064 | 0,370818 | 3 |
| 5...976 | Union / Hilden | 15 | 395 | 1,350 | 0,900 | 0,327 | 5925 | 7 | | | | | |

3.4 Comparative values for radiators of type 4 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------|---------------------|------------|---------|---------|--------|--------|----------|---------|-----------------|-------|-------|---------|----------|
| C. MID | Producer | Model | num | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | | | | type |
| | | | 90/70/2 | (l) | (h) | (p) | 90/70/20 | 90/70/2 | | | | | |
| 5...1253 | Classic Gussraditor | Strelbel | 1 | 125 | 0,055 | 0,592 | 0,198 | 125 | 221 | 77 % | 18600 | 0,32133 | 0,006447 |
| 5...1442 | Classic Gussraditor | Strelbel | 1 | 125 | 0,055 | 0,690 | 0,150 | 125 | 200 | 60 % | 18600 | 0,29940 | 0,005693 |
| 5...1253 | Classic Gussraditor | Strelbel | 2 | 125 | 0,110 | 0,592 | 0,198 | 250 | 368 | 47 % | 18600 | 0,40823 | 0,012894 |
| 5...1442 | Classic Gussraditor | Strelbel | 2 | 125 | 0,110 | 0,690 | 0,150 | 250 | 335 | 34 % | 18600 | 0,39180 | 0,011385 |
| 5...1253 | Classic Gussraditor | Strelbel | 3 | 125 | 0,165 | 0,592 | 0,198 | 375 | 515 | 37 % | 18600 | 0,49513 | 0,019341 |
| 5...1442 | Classic Gussraditor | Strelbel | 3 | 125 | 0,165 | 0,690 | 0,150 | 375 | 470 | 25 % | 18600 | 0,48420 | 0,017078 |
| 5...1253 | Classic Gussraditor | Strelbel | 4 | 125 | 0,220 | 0,592 | 0,198 | 500 | 662 | 32 % | 18600 | 0,58203 | 0,025788 |
| 5...1442 | Classic Gussraditor | Strelbel | 4 | 125 | 0,220 | 0,690 | 0,150 | 500 | 605 | 21 % | 18600 | 0,57660 | 0,022770 |
| 5...1253 | Classic Gussraditor | Strelbel | 5 | 125 | 0,275 | 0,592 | 0,198 | 625 | 810 | 30 % | 18600 | 0,66893 | 0,032234 |
| 5...1442 | Classic Gussraditor | Strelbel | 5 | 125 | 0,275 | 0,690 | 0,150 | 625 | 739 | 18 % | 18600 | 0,66900 | 0,028463 |
| 5...1253 | Classic Gussraditor | Strelbel | 6 | 125 | 0,330 | 0,592 | 0,198 | 750 | 957 | 28 % | 18600 | 0,75583 | 0,038681 |
| 5...1442 | Classic Gussraditor | Strelbel | 6 | 125 | 0,330 | 0,690 | 0,150 | 750 | 874 | 17 % | 18600 | 0,76140 | 0,034155 |
| 5...1253 | Classic Gussraditor | Strelbel | 7 | 125 | 0,385 | 0,592 | 0,198 | 875 | 1104 | 26 % | 18600 | 0,84273 | 0,045128 |
| 5...1442 | Classic Gussraditor | Strelbel | 7 | 125 | 0,385 | 0,690 | 0,150 | 875 | 1009 | 15 % | 18600 | 0,85380 | 0,039848 |
| 5...1253 | Classic Gussraditor | Strelbel | 8 | 125 | 0,440 | 0,592 | 0,198 | 1000 | 1251 | 25 % | 18600 | 0,92963 | 0,051575 |
| 5...1442 | Classic Gussraditor | Strelbel | 8 | 125 | 0,440 | 0,690 | 0,150 | 1000 | 1144 | 14 % | 18600 | 0,94620 | 0,045540 |
| 5...1253 | Classic Gussraditor | Strelbel | 9 | 125 | 0,495 | 0,592 | 0,198 | 1125 | 1398 | 24 % | 18600 | 1,01653 | 0,058022 |
| 5...1442 | Classic Gussraditor | Strelbel | 9 | 125 | 0,495 | 0,690 | 0,150 | 1125 | 1279 | 14 % | 18600 | 1,03860 | 0,051233 |
| 5...1253 | Classic Gussraditor | Strelbel | 10 | 125 | 0,550 | 0,592 | 0,198 | 1250 | 1546 | 24 % | 18600 | 1,10343 | 0,064469 |
| 5...1442 | Classic Gussraditor | Strelbel | 10 | 125 | 0,550 | 0,690 | 0,150 | 1250 | 1414 | 13 % | 18600 | 1,13100 | 0,056925 |
| 5...1253 | Classic Gussraditor | Strelbel | 11 | 125 | 0,605 | 0,592 | 0,198 | 1375 | 1693 | 23 % | 18600 | 1,19033 | 0,070916 |
| 5...1442 | Classic Gussraditor | Strelbel | 11 | 125 | 0,605 | 0,690 | 0,150 | 1375 | 1549 | 13 % | 18600 | 1,22340 | 0,062618 |
| 5...1253 | Classic Gussraditor | Strelbel | 12 | 125 | 0,660 | 0,592 | 0,198 | 1500 | 1840 | 23 % | 18600 | 1,27723 | 0,077363 |
| 5...1442 | Classic Gussraditor | Strelbel | 12 | 125 | 0,660 | 0,690 | 0,150 | 1500 | 1684 | 12 % | 18600 | 1,31580 | 0,068310 |
| 5...1253 | Classic Gussraditor | Strelbel | 13 | 125 | 0,715 | 0,592 | 0,198 | 1625 | 1987 | 22 % | 18600 | 1,36413 | 0,083809 |
| 5...1253 | Classic Gussraditor | Strelbel | 14 | 125 | 0,770 | 0,592 | 0,198 | 1750 | 2134 | 22 % | 18600 | 1,45103 | 0,090256 |
| 5...1253 | Classic Gussraditor | Strelbel | 15 | 125 | 0,825 | 0,592 | 0,198 | 1875 | 2282 | 22 % | 18600 | 1,53793 | 0,096703 |
| 5...1253 | Classic Gussraditor | Strelbel | 16 | 125 | 0,880 | 0,592 | 0,198 | 2000 | 2429 | 21 % | 18600 | 1,62483 | 0,103150 |
| 5...1253 | Classic Gussraditor | Strelbel | 17 | 125 | 0,935 | 0,592 | 0,198 | 2125 | 2576 | 21 % | 18600 | 1,71173 | 0,109597 |
| 5...1253 | Classic Gussraditor | Strelbel | 18 | 125 | 0,990 | 0,592 | 0,198 | 2250 | 2723 | 21 % | 18600 | 1,79863 | 0,116044 |
| 5...1253 | Classic Gussraditor | Strelbel | 19 | 125 | 1,045 | 0,592 | 0,198 | 2375 | 2870 | 21 % | 18600 | 1,88553 | 0,122491 |
| 5...1253 | Classic Gussraditor | Strelbel | 20 | 125 | 1,100 | 0,592 | 0,198 | 2500 | 3018 | 21 % | 18600 | 1,97243 | 0,128938 |
| 5...1253 | Classic Gussraditor | Strelbel | 21 | 125 | 1,155 | 0,592 | 0,198 | 2625 | 3165 | 21 % | 18600 | 2,05933 | 0,135384 |
| 5...1253 | Classic Gussraditor | Strelbel | 22 | 125 | 1,210 | 0,592 | 0,198 | 2750 | 3312 | 20 % | 18600 | 2,14623 | 0,141831 |
| 5...1253 | Classic Gussraditor | Strelbel | 23 | 125 | 1,265 | 0,592 | 0,198 | 2875 | 3459 | 20 % | 18600 | 2,23313 | 0,148278 |
| 5...1253 | Classic Gussraditor | Strelbel | 24 | 125 | 1,320 | 0,592 | 0,198 | 3000 | 3606 | 20 % | 18600 | 2,32003 | 0,154725 |
| 5...1253 | Classic Gussraditor | Strelbel | 25 | 125 | 1,375 | 0,592 | 0,198 | 3125 | 3754 | 20 % | 18600 | 2,40693 | 0,161172 |
| 5...1253 | Classic Gussraditor | Strelbel | 1 | 155 | 0,055 | 0,692 | 0,210 | 155 | 271 | 75 % | 18600 | 0,38986 | 0,007993 |
| 5...1253 | Classic Gussraditor | Strelbel | 2 | 155 | 0,110 | 0,692 | 0,210 | 310 | 451 | 45 % | 18600 | 0,48908 | 0,015985 |
| 5...1253 | Classic Gussraditor | Strelbel | 3 | 155 | 0,165 | 0,692 | 0,210 | 465 | 631 | 36 % | 18600 | 0,58830 | 0,023978 |
| 5...1253 | Classic Gussraditor | Strelbel | 4 | 155 | 0,220 | 0,692 | 0,210 | 620 | 811 | 31 % | 18600 | 0,68752 | 0,031970 |
| 5...1253 | Classic Gussraditor | Strelbel | 5 | 155 | 0,275 | 0,692 | 0,210 | 775 | 990 | 28 % | 18600 | 0,78674 | 0,039963 |
| 5...1253 | Classic Gussraditor | Strelbel | 6 | 155 | 0,330 | 0,692 | 0,210 | 930 | 1170 | 26 % | 18600 | 0,88596 | 0,047956 |
| 5...1253 | Classic Gussraditor | Strelbel | 7 | 155 | 0,385 | 0,692 | 0,210 | 1085 | 1350 | 24 % | 18600 | 0,98518 | 0,055948 |
| 5...1253 | Classic Gussraditor | Strelbel | 8 | 155 | 0,440 | 0,692 | 0,210 | 1240 | 1530 | 23 % | 18600 | 1,08440 | 0,063941 |
| 5...1253 | Classic Gussraditor | Strelbel | 9 | 155 | 0,495 | 0,692 | 0,210 | 1395 | 1710 | 23 % | 18600 | 1,18362 | 0,071933 |
| 5...1253 | Classic Gussraditor | Strelbel | 10 | 155 | 0,550 | 0,692 | 0,210 | 1550 | 1889 | 22 % | 18600 | 1,28284 | 0,079926 |
| 5...1253 | Classic Gussraditor | Strelbel | 11 | 155 | 0,605 | 0,692 | 0,210 | 1705 | 2069 | 21 % | 18600 | 1,38206 | 0,087919 |
| 5...1253 | Classic Gussraditor | Strelbel | 12 | 155 | 0,660 | 0,692 | 0,210 | 1860 | 2249 | 21 % | 18600 | 1,48128 | 0,095911 |
| 5...1253 | Classic Gussraditor | Strelbel | 13 | 155 | 0,715 | 0,692 | 0,210 | 2015 | 2429 | 21 % | 18600 | 1,58050 | 0,103904 |
| 5...1253 | Classic Gussraditor | Strelbel | 14 | 155 | 0,770 | 0,692 | 0,210 | 2170 | 2609 | 20 % | 18600 | 1,67972 | 0,111896 |
| 5...1253 | Classic Gussraditor | Strelbel | 15 | 155 | 0,825 | 0,692 | 0,210 | 2325 | 2789 | 20 % | 18600 | 1,77894 | 0,119889 |
| 5...1253 | Classic Gussraditor | Strelbel | 16 | 155 | 0,880 | 0,692 | 0,210 | 2480 | 2968 | 20 % | 18600 | 1,87816 | 0,127882 |
| 5...1253 | Classic Gussraditor | Strelbel | 17 | 155 | 0,935 | 0,692 | 0,210 | 2635 | 3148 | 19 % | 18600 | 1,97738 | 0,135874 |
| 5...1253 | Classic Gussraditor | Strelbel | 18 | 155 | 0,990 | 0,692 | 0,210 | 2790 | 3328 | 19 % | 18600 | 2,07660 | 0,143867 |
| 5...1253 | Classic Gussraditor | Strelbel | 19 | 155 | 1,045 | 0,692 | 0,210 | 2945 | 3508 | 19 % | 18600 | 2,17582 | 0,151859 |
| 5...1253 | Classic Gussraditor | Strelbel | 20 | 155 | 1,100 | 0,692 | 0,210 | 3100 | 3688 | 19 % | 18600 | 2,27504 | 0,159852 |
| 5...1253 | Classic Gussraditor | Strelbel | 21 | 155 | 1,155 | 0,692 | 0,210 | 3255 | 3867 | 19 % | 18600 | 2,37426 | 0,167845 |
| 5...1253 | Classic Gussraditor | Strelbel | 22 | 155 | 1,210 | 0,692 | 0,210 | 3410 | 4047 | 19 % | 18600 | 2,47348 | 0,175837 |
| 5...1253 | Classic Gussraditor | Strelbel | 23 | 155 | 1,265 | 0,692 | 0,210 | 3565 | 4227 | 19 % | 18600 | 2,57270 | 0,183830 |
| 5...1253 | Classic Gussraditor | Strelbel | 24 | 155 | 1,320 | 0,692 | 0,210 | 3720 | 4407 | 18 % | 18600 | 2,67192 | 0,191822 |
| 5...1253 | Classic Gussraditor | Strelbel | 25 | 155 | 1,375 | 0,692 | 0,210 | 3875 | 4587 | 18 % | 18600 | 2,77114 | 0,199815 |
| 5...1253 | Classic Gussraditor | Strelbel | 26 | 155 | 1,430 | 0,692 | 0,210 | 4030 | 4767 | 18 % | 18600 | 2,87036 | 0,207808 |
| 5...1253 | Classic Gussraditor | Strelbel | 27 | 155 | 1,485 | 0,692 | 0,210 | 4185 | 4946 | 18 % | 18600 | 2,96958 | 0,215800 |
| 5...1253 | Classic Gussraditor | Strelbel | 28 | 155 | 1,540 | 0,692 | 0,210 | 4340 | 5126 | 18 % | 18600 | 3,06880 | 0,223793 |
| 5...479 | src radior | src radior | 1 | 217 | 0,055 | 0,680 | 0,210 | 217 | 267 | 23 % | 18600 | 0,38350 | 0,007854 |
| 5...479 | src radior | src radior | 6 | 217 | 0,330 | 0,680 | 0,210 | 1302 | 1151 | -12 % | 18600 | 0,87300 | 0,047124 |
| 5...479 | src radior | src radior | 7 | 217 | 0,385 | 0,680 | 0,210 | 1519 | 1327 | -13 % | 18600 | 0,97090 | 0,054978 |
| 5...479 | src radior | src radior | 8 | 217 | 0,440 | 0,680 | 0,210 | 1736 | 1504 | -13 % | 18600 | 1,06880 | 0,062832 |
| 5...479 | src radior | src radior | 9 | 217 | 0,495 | 0,680 | 0,210 | 1953 | 1681 | -14 % | 18600 | 1,16670 | 0,070686 |
| 5...479 | src radior | src radior | 10 | 217 | 0,550 | 0,680 | 0,210 | 2170 | 1858 | -14 % | 18600 | 1,26460 | 0,078540 |
| 5...479 | src radior | src radior | 11 | 217 | 0,605 | 0,680 | 0,210 | 2387 | 2035 | -15 % | 18600 | 1,36250 | 0,086394 |
| 5...479 | src radior | src radior | 12 | 217 | 0,660 | 0,680 | 0,210 | 2604 | 2212 | -15 % | 18600 | 1,46040 | 0,094248 |
| 5...479 | src radior | src radior | 13 | 217 | 0,715 | 0,680 | 0,210 | 2821 | 3288 | -15 % | 18600 | 1,55830 | 0,102102 |
| 5...479 | src radior | src radior | 14</ | | | | | | | | | | |

| | | | | | | | | | | | | | |
|----------|----------------------|----|-----|-------|-------|-------|------|------|------|-------|---------|----------|---|
| 5...1253 | Classic Gussradiator | 1 | 245 | 0,055 | 1,092 | 0,210 | 245 | 424 | 73 % | 18600 | 0,60186 | 0,012613 | 4 |
| 5...1253 | Classic Gussradiator | 2 | 245 | 0,110 | 1,092 | 0,210 | 490 | 703 | 43 % | 18600 | 0,74508 | 0,025225 | 4 |
| 5...1253 | Classic Gussradiator | 3 | 245 | 0,165 | 1,092 | 0,210 | 735 | 983 | 34 % | 18600 | 0,88830 | 0,037838 | 4 |
| 5...1253 | Classic Gussradiator | 4 | 245 | 0,220 | 1,092 | 0,210 | 980 | 1262 | 29 % | 18600 | 1,03152 | 0,050450 | 4 |
| 5...1253 | Classic Gussradiator | 10 | 245 | 0,550 | 1,092 | 0,210 | 2450 | 2940 | 20 % | 18600 | 1,89084 | 0,126126 | 4 |
| 5...1253 | Classic Gussradiator | 11 | 245 | 0,605 | 1,092 | 0,210 | 2695 | 3219 | 19 % | 18600 | 2,03406 | 0,138739 | 4 |
| 5...1253 | Classic Gussradiator | 12 | 245 | 0,660 | 1,092 | 0,210 | 2940 | 3499 | 19 % | 18600 | 2,17228 | 0,151351 | 4 |
| 5...1253 | Classic Gussradiator | 13 | 245 | 0,715 | 1,092 | 0,210 | 3185 | 3778 | 19 % | 18600 | 2,32050 | 0,163964 | 4 |
| 5...1253 | Classic Gussradiator | 14 | 245 | 0,770 | 1,092 | 0,210 | 3430 | 4058 | 18 % | 18600 | 2,46372 | 0,176576 | 4 |
| 5...1253 | Classic Gussradiator | 15 | 245 | 0,825 | 1,092 | 0,210 | 3675 | 4337 | 18 % | 18600 | 2,60694 | 0,189189 | 4 |
| 5...1253 | Classic Gussradiator | 16 | 245 | 0,880 | 1,092 | 0,210 | 3920 | 4617 | 18 % | 18600 | 2,75016 | 0,201802 | 4 |
| 5...1253 | Classic Gussradiator | 17 | 245 | 0,935 | 1,092 | 0,210 | 4165 | 4897 | 18 % | 18600 | 2,89338 | 0,214414 | 4 |
| 5...1253 | Classic Gussradiator | 18 | 245 | 0,990 | 1,092 | 0,210 | 4410 | 5176 | 17 % | 18600 | 3,03660 | 0,227027 | 4 |
| 5...1253 | Classic Gussradiator | 19 | 245 | 1,045 | 1,092 | 0,210 | 4655 | 5456 | 17 % | 18600 | 3,17982 | 0,239639 | 4 |
| 5...1253 | Classic Gussradiator | 20 | 245 | 1,100 | 1,092 | 0,210 | 4900 | 5735 | 17 % | 18600 | 3,32304 | 0,252252 | 4 |
| 5...1253 | Classic Gussradiator | 21 | 245 | 1,155 | 1,092 | 0,210 | 5145 | 6015 | 17 % | 18600 | 3,46626 | 0,264865 | 4 |
| 5...1253 | Classic Gussradiator | 22 | 245 | 1,210 | 1,092 | 0,210 | 5390 | 6294 | 17 % | 18600 | 3,60948 | 0,277477 | 4 |
| 5...1253 | Classic Gussradiator | 23 | 245 | 1,265 | 1,092 | 0,210 | 5635 | 6574 | 17 % | 18600 | 3,75270 | 0,290090 | 4 |
| 5...1253 | Classic Gussradiator | 24 | 245 | 1,320 | 1,092 | 0,210 | 5880 | 6854 | 17 % | 18600 | 3,89592 | 0,302702 | 4 |
| 5...1253 | Classic Gussradiator | 25 | 245 | 1,375 | 1,092 | 0,210 | 6125 | 7133 | 16 % | 18600 | 4,03914 | 0,315315 | 4 |
| 5...1253 | Classic Gussradiator | 26 | 245 | 1,430 | 1,092 | 0,210 | 6370 | 7413 | 16 % | 18600 | 4,18236 | 0,327928 | 4 |
| 5...1253 | Classic Gussradiator | 27 | 245 | 1,485 | 1,092 | 0,210 | 6615 | 7692 | 16 % | 18600 | 4,32558 | 0,340540 | 4 |
| 5...1253 | Classic Gussradiator | 28 | 245 | 1,540 | 1,092 | 0,210 | 6860 | 7972 | 16 % | 18600 | 4,46880 | 0,353153 | 4 |
| 5...1253 | Classic Gussradiator | 29 | 245 | 1,595 | 1,092 | 0,210 | 7105 | 8251 | 16 % | 18600 | 4,61202 | 0,365765 | 4 |

3.5 Comparative values for radiators of type 5 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------------|---------------------|------|---------|--------|--------|-------|----------|-----------------|-------|-------------------------|-------------------|-------------------|------|
| | Producer | num | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | | coefficient UNI 1020 | surface (S) | volume (V) | |
| C..MID | Model | elec | 90/70/2 | (l) | (h) | (p) | 90/70/20 | 90/70/2 | | (k) | (m ²) | (m ³) | type |
| EN442 - Anlage | BIASI - LBT 2/880 | 1 | 100,06 | 0,060 | 0,880 | 0,070 | 100 | 140 | 39 % | 17600 | 0,23720 | 0,003696 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 2 | 100,06 | 0,120 | 0,880 | 0,070 | 200 | 240 | 20 % | 17600 | 0,35120 | 0,007392 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 3 | 100,06 | 0,180 | 0,880 | 0,070 | 300 | 341 | 14 % | 17600 | 0,46520 | 0,01088 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 4 | 100,06 | 0,240 | 0,880 | 0,070 | 400 | 442 | 10 % | 17600 | 0,57920 | 0,014784 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 5 | 100,06 | 0,300 | 0,880 | 0,070 | 500 | 543 | 9 % | 17600 | 0,69320 | 0,018480 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 6 | 100,06 | 0,360 | 0,880 | 0,070 | 600 | 644 | 7 % | 17600 | 0,80720 | 0,022176 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 7 | 100,06 | 0,420 | 0,880 | 0,070 | 700 | 745 | 6 % | 17600 | 0,92120 | 0,025872 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 8 | 100,06 | 0,480 | 0,880 | 0,070 | 800 | 845 | 6 % | 17600 | 1,03520 | 0,029568 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 9 | 100,06 | 0,540 | 0,880 | 0,070 | 901 | 946 | 5 % | 17600 | 1,14920 | 0,033264 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 10 | 100,06 | 0,600 | 0,880 | 0,070 | 1001 | 1047 | 5 % | 17600 | 1,26320 | 0,036960 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 11 | 100,06 | 0,660 | 0,880 | 0,070 | 1101 | 1148 | 4 % | 17600 | 1,37720 | 0,040656 | 5 |
| EN442 - Anlage | BIASI - LBT 2/880 | 16 | 100,06 | 0,960 | 0,880 | 0,070 | 1601 | 1652 | 3 % | 17600 | 1,94720 | 0,059136 | 5 |
| EN442 - Anlage | BIASI - LBT 4/580 | 1 | 120,15 | 0,060 | 0,580 | 0,146 | 120 | 170 | 41 % | 17600 | 0,25648 | 0,005081 | 5 |
| EN442 - Anlage | BIASI - LBT 4/580 | 2 | 120,15 | 0,120 | 0,580 | 0,146 | 240 | 287 | 19 % | 17600 | 0,34360 | 0,010162 | 5 |
| EN442 - Anlage | BIASI - LBT 4/580 | 3 | 120,15 | 0,180 | 0,580 | 0,146 | 360 | 404 | 12 % | 17600 | 0,43072 | 0,015242 | 5 |
| EN442 - Anlage | BIASI - LBT 4/580 | 4 | 120,15 | 0,240 | 0,580 | 0,146 | 481 | 520 | 8 % | 17600 | 0,51784 | 0,020323 | 5 |
| EN442 - Anlage | BIASI - LBT 4/580 | 5 | 120,15 | 0,300 | 0,580 | 0,146 | 601 | 637 | 6 % | 17600 | 0,60496 | 0,025404 | 5 |
| EN442 - Anlage | BIASI - LBT 4/580 | 6 | 120,15 | 0,360 | 0,580 | 0,146 | 721 | 754 | 5 % | 17600 | 0,69208 | 0,030485 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 1 | 134,84 | 0,060 | 0,430 | 0,225 | 135 | 188 | 39 % | 17600 | 0,27210 | 0,005805 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 2 | 134,84 | 0,120 | 0,430 | 0,225 | 270 | 314 | 17 % | 17600 | 0,35070 | 0,011610 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 3 | 134,84 | 0,180 | 0,430 | 0,225 | 405 | 441 | 9 % | 17600 | 0,42930 | 0,017415 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 4 | 134,84 | 0,240 | 0,430 | 0,225 | 539 | 568 | 5 % | 17600 | 0,50790 | 0,023220 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 17 | 134,84 | 0,200 | 0,430 | 0,225 | 2292 | 2217 | -3 % | 17600 | 1,52970 | 0,098685 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 18 | 134,84 | 0,180 | 0,430 | 0,225 | 2427 | 2344 | -3 % | 17600 | 1,60830 | 0,104490 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 20 | 134,84 | 0,200 | 0,430 | 0,225 | 2697 | 2598 | -4 % | 17600 | 1,76550 | 0,116100 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 21 | 134,84 | 0,260 | 0,430 | 0,225 | 2832 | 2725 | -4 % | 17600 | 1,84410 | 0,121905 | 5 |
| EN442 - Anlage | BIASI - LBT 6/430 | 22 | 134,84 | 0,320 | 0,430 | 0,225 | 2966 | 2851 | -4 % | 17600 | 1,92270 | 0,127710 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 1 | 137,51 | 0,060 | 0,680 | 0,146 | 138 | 198 | 44 % | 17600 | 0,29768 | 0,005957 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 2 | 137,51 | 0,120 | 0,680 | 0,146 | 275 | 334 | 22 % | 17600 | 0,39680 | 0,011914 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 3 | 137,51 | 0,180 | 0,680 | 0,146 | 413 | 470 | 14 % | 17600 | 0,49592 | 0,017870 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 4 | 137,51 | 0,240 | 0,680 | 0,146 | 550 | 606 | 10 % | 17600 | 0,59504 | 0,023827 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 5 | 137,51 | 0,300 | 0,680 | 0,146 | 688 | 742 | 8 % | 17600 | 0,69416 | 0,029784 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 6 | 137,51 | 0,360 | 0,680 | 0,146 | 825 | 878 | 6 % | 17600 | 0,79328 | 0,035741 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 7 | 137,51 | 0,420 | 0,680 | 0,146 | 963 | 1014 | 5 % | 17600 | 0,89240 | 0,041698 | 5 |
| EN442 - Anlage | BIASI - LBT 6/680 | 10 | 137,51 | 0,600 | 0,680 | 0,146 | 1375 | 1422 | 3 % | 17600 | 1,18976 | 0,059568 | 5 |
| EN442 - Anlage | BIASI - LBT 9/300 | 1 | 142,29 | 0,060 | 0,300 | 0,340 | 142 | 196 | 38 % | 17600 | 0,28080 | 0,006120 | 5 |
| EN442 - Anlage | BIASI - LBT 9/300 | 2 | 142,29 | 0,120 | 0,300 | 0,340 | 285 | 328 | 15 % | 17600 | 0,35760 | 0,012240 | 5 |
| EN442 - Anlage | BIASI - LBT 9/300 | 3 | 142,29 | 0,180 | 0,300 | 0,340 | 427 | 460 | 8 % | 17600 | 0,43440 | 0,018360 | 5 |
| EN442 - Anlage | BIASI - LBT 9/300 | 4 | 142,29 | 0,240 | 0,300 | 0,340 | 569 | 591 | 4 % | 17600 | 0,51120 | 0,024480 | 5 |
| 5...357 | Strelbel - Columnia | 1 | 150 | 0,060 | 0,774 | 0,160 | 150 | 244 | 62 % | 17600 | 0,35976 | 0,007430 | 5 |
| 5...357 | Strelbel - Columnia | 2 | 150 | 0,120 | 0,774 | 0,160 | 300 | 410 | 37 % | 17600 | 0,47184 | 0,014861 | 5 |
| 5...357 | Strelbel - Columnia | 3 | 150 | 0,180 | 0,774 | 0,160 | 450 | 576 | 28 % | 17600 | 0,58392 | 0,022291 | 5 |
| 5...357 | Strelbel - Columnia | 4 | 150 | 0,240 | 0,774 | 0,160 | 600 | 742 | 24 % | 17600 | 0,69600 | 0,029722 | 5 |
| 5...357 | Strelbel - Columnia | 5 | 150 | 0,300 | 0,774 | 0,160 | 750 | 908 | 21 % | 17600 | 0,80808 | 0,037152 | 5 |
| 5...357 | Strelbel - Columnia | 6 | 150 | 0,360 | 0,774 | 0,160 | 900 | 1074 | 19 % | 17600 | 0,92016 | 0,044582 | 5 |
| 5...357 | Strelbel - Columnia | 7 | 150 | 0,420 | 0,774 | 0,160 | 1050 | 1240 | 18 % | 17600 | 1,03224 | 0,052013 | 5 |
| 5...357 | Strelbel - Columnia | 8 | 150 | 0,480 | 0,774 | 0,160 | 1200 | 1406 | 17 % | 17600 | 1,14432 | 0,059443 | 5 |
| 5...357 | Strelbel - Columnia | 9 | 150 | 0,540 | 0,774 | 0,160 | 1350 | 1571 | 16 % | 17600 | 1,25640 | 0,066874 | 5 |
| 5...357 | Strelbel - Columnia | 10 | 150 | 0,600 | 0,774 | 0,160 | 1500 | 1737 | 16 % | 17600 | 1,36848 | 0,074304 | 5 |
| 5...357 | Strelbel - Columnia | 11 | 150 | 0,660 | 0,774 | 0,160 | 1650 | 1903 | 15 % | 17600 | 1,48056 | 0,081734 | 5 |
| 5...357 | Strelbel - Columnia | 12 | 150 | 0,720 | 0,774 | 0,160 | 1800 | 2069 | 15 % | 17600 | 1,59264 | 0,089165 | 5 |
| 5...357 | Strelbel - Columnia | 13 | 150 | 0,780 | 0,774 | 0,160 | 1950 | 2235 | 15 % | 17600 | 1,70472 | 0,096595 | 5 |
| 5...357 | Strelbel - Columnia | 14 | 150 | 0,840 | 0,774 | 0,160 | 2100 | 2401 | 14 % | 17600 | 1,81680 | 0,104026 | 5 |
| 5...357 | Strelbel - Columnia | 15 | 150 | 0,900 | 0,774 | 0,160 | 2250 | 2567 | 14 % | 17600 | 1,92888 | 0,114456 | 5 |
| 5...357 | Strelbel - Columnia | 16 | 150 | 0,960 | 0,774 | 0,160 | 2400 | 2733 | 14 % | 17600 | 2,04096 | 0,118886 | 5 |
| 5...357 | Strelbel - Columnia | 17 | 150 | 1,020 | 0,774 | 0,160 | 2550 | 2899 | 14 % | 17600 | 2,15304 | 0,126317 | 5 |
| 5...357 | Strelbel - Columnia | 18 | 150 | 1,080 | 0,774 | 0,160 | 2700 | 3065 | 14 % | 17600 | 2,26512 | 0,133747 | 5 |
| 5...357 | Strelbel - Columnia | 19 | 150 | 1,140 | 0,774 | 0,160 | 2850 | 3231 | 13 % | 17600 | 2,37720 | 0,141178 | 5 |
| 5...357 | Strelbel - Columnia | 20 | 150 | 1,200 | 0,774 | 0,160 | 3000 | 3397 | 13 % | 17600 | 2,48928 | 0,148608 | 5 |
| 5...357 | Strelbel - Columnia | 21 | 150 | 1,260 | 0,774 | 0,160 | 3150 | 3563 | 13 % | 17600 | 2,60136 | 0,156038 | 5 |
| 5...357 | Strelbel - Columnia | 22 | 150 | 1,320 | 0,774 | 0,160 | 3300 | 3729 | 13 % | 17600 | 2,71344 | 0,163469 | 5 |
| 5.....483 | Src - Edenroc (60) | 1 | 154,1 | 0,060 | 0,417 | 0,218 | 154 | 177 | 15 % | 17600 | 0,25801 | 0,005454 | 5 |
| 5.....483 | Src - Edenroc (60) | 5 | 154,1 | 0,300 | 0,417 | 0,218 | 771 | 657 | -15 % | 17600 | 0,56281 | 0,027272 | 5 |
| 5.....483 | Src - Edenroc (60) | 6 | 154,1 | 0,360 | 0,417 | 0,218 | 925 | 777 | -16 % | 17600 | 0,63901 | 0,032726 | 5 |
| 5.....483 | Src - Edenroc (60) | 7 | 154,1 | 0,420 | 0,417 | 0,218 | 1079 | 897 | -17 % | 17600 | 0,71521 | 0,038181 | 5 |
| 5.....483 | Src - Edenroc (60) | 8 | 154,1 | 0,480 | 0,417 | 0,218 | 1233 | 1016 | -18 % | 17600 | 0,79141 | 0,043635 | 5 |
| 5.....483 | Src - Edenroc (60) | 9 | 154,1 | 0,540 | 0,417 | 0,218 | 1387 | 1136 | -18 % | 17600 | 0,86761 | 0,049089 | 5 |
| 5.....483 | Src - Edenroc (60) | 10 | 154,1 | 0,600 | 0,417 | 0,218 | 1541 | 1256 | -18 % | 17600 | 0,94381 | 0,054544 | 5 |
| 5.....483 | Src - Edenroc (60) | 11 | 154,1 | 0,660 | 0,417 | 0,218 | 1695 | 1376 | -19 % | 17600 | 1,02001 | 0,059998 | 5 |
| 5.....483 | Src - Edenroc (60) | 12 | 154,1 | 0,720 | 0,417 | 0,218 | 1849 | 1496 | -19 % | 17600 | 1,09621 | 0,065452 | 5 |
| 5.....483 | Src - Edenroc (60) | 13 | 154,1 | 0,780 | 0,417 | 0,218 | 2003 | 1616 | -19 % | 17600 | 1,17241 | 0,070907 | 5 |
| 5.....483 | Src - Edenroc (60) | 14 | 154,1 | 0,840 | 0,417 | 0,218 | 2157 | 1736 | -20 % | 17600 | 1,24861 | 0,07 | |

| | | | | | | | | | | | | | | |
|----------------|-------------------|----|--------|-------|-------|-------|------|------|------|--|-------|----------|----------|---|
| 5...297 | Buderus (80) | 10 | 155 | 0,800 | 0,610 | 0,220 | 1550 | 2391 | 54 % | | 17600 | 1,59640 | 0,107360 | 5 |
| 5...297 | Buderus (80) | 11 | 155 | 0,880 | 0,610 | 0,220 | 1705 | 2621 | 54 % | | 17600 | 1,72920 | 0,118096 | 5 |
| 5...297 | Buderus (80) | 12 | 155 | 0,960 | 0,610 | 0,220 | 1860 | 2852 | 53 % | | 17600 | 1,86200 | 0,128832 | 5 |
| 5...297 | Buderus (80) | 13 | 155 | 1,040 | 0,610 | 0,220 | 2015 | 3083 | 53 % | | 17600 | 1,99480 | 0,139568 | 5 |
| 5...297 | Buderus (80) | 14 | 155 | 1,120 | 0,610 | 0,220 | 2170 | 3313 | 53 % | | 17600 | 2,12760 | 0,150304 | 5 |
| 5...297 | Buderus (80) | 15 | 155 | 1,200 | 0,610 | 0,220 | 2325 | 3544 | 52 % | | 17600 | 2,26040 | 0,161040 | 5 |
| 5...297 | Buderus (80) | 16 | 155 | 1,280 | 0,610 | 0,220 | 2480 | 3775 | 52 % | | 17600 | 2,39320 | 0,171776 | 5 |
| 5...297 | Buderus (80) | 17 | 155 | 1,360 | 0,610 | 0,220 | 2635 | 4005 | 52 % | | 17600 | 2,52600 | 0,182512 | 5 |
| 5...297 | Buderus (80) | 18 | 155 | 1,440 | 0,610 | 0,220 | 2790 | 4236 | 52 % | | 17600 | 2,65880 | 0,193248 | 5 |
| 5...297 | Buderus (80) | 19 | 155 | 1,520 | 0,610 | 0,220 | 2945 | 4467 | 52 % | | 17600 | 2,79160 | 0,203984 | 5 |
| 5...297 | Buderus (80) | 20 | 155 | 1,600 | 0,610 | 0,220 | 3100 | 4697 | 52 % | | 17600 | 2,92440 | 0,214720 | 5 |
| 5...297 | Buderus (80) | 21 | 155 | 1,680 | 0,610 | 0,220 | 3255 | 4928 | 51 % | | 17600 | 3,05720 | 0,225456 | 5 |
| 5...297 | Buderus (80) | 22 | 155 | 1,760 | 0,610 | 0,220 | 3410 | 5159 | 51 % | | 17600 | 3,19000 | 0,236192 | 5 |
| 5...297 | Buderus (80) | 23 | 155 | 1,840 | 0,610 | 0,220 | 3565 | 5389 | 51 % | | 17600 | 3,32280 | 0,246928 | 5 |
| 5...297 | Buderus (80) | 24 | 155 | 1,920 | 0,610 | 0,220 | 3720 | 5620 | 51 % | | 17600 | 3,45560 | 0,257664 | 5 |
| 5...297 | Buderus (80) | 25 | 155 | 2,000 | 0,610 | 0,220 | 3875 | 5851 | 51 % | | 17600 | 3,58840 | 0,268400 | 5 |
| 5...297 | Buderus (80) | 26 | 155 | 2,080 | 0,610 | 0,220 | 4030 | 6081 | 51 % | | 17600 | 3,72120 | 0,279136 | 5 |
| 5...297 | Buderus (80) | 27 | 155 | 2,160 | 0,610 | 0,220 | 4185 | 6312 | 51 % | | 17600 | 3,85400 | 0,289872 | 5 |
| 5...297 | Buderus (80) | 28 | 155 | 2,240 | 0,600 | 0,220 | 4340 | 6440 | 48 % | | 17600 | 3,93760 | 0,295680 | 5 |
| 5...297 | Buderus (80) | 29 | 155 | 2,320 | 0,610 | 0,220 | 4495 | 6773 | 51 % | | 17600 | 4,11960 | 0,311344 | 5 |
| 5...297 | Buderus (80) | 30 | 155 | 2,400 | 0,610 | 0,220 | 4650 | 7004 | 51 % | | 17600 | 4,25240 | 0,322080 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 1 | 158,13 | 0,060 | 0,580 | 0,225 | 158 | 250 | 58 % | | 17600 | 0,35760 | 0,007830 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 2 | 158,13 | 0,120 | 0,580 | 0,225 | 316 | 418 | 32 % | | 17600 | 0,45420 | 0,015660 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 3 | 158,13 | 0,180 | 0,580 | 0,225 | 474 | 586 | 24 % | | 17600 | 0,55080 | 0,023490 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 4 | 158,13 | 0,240 | 0,580 | 0,225 | 633 | 755 | 19 % | | 17600 | 0,64740 | 0,031320 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 5 | 158,13 | 0,300 | 0,580 | 0,225 | 791 | 923 | 17 % | | 17600 | 0,74400 | 0,039150 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 6 | 158,13 | 0,360 | 0,580 | 0,225 | 949 | 1091 | 15 % | | 17600 | 0,84060 | 0,046980 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 7 | 158,13 | 0,420 | 0,580 | 0,225 | 1107 | 1259 | 14 % | | 17600 | 0,93720 | 0,054810 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 8 | 158,13 | 0,480 | 0,580 | 0,225 | 1265 | 1427 | 13 % | | 17600 | 1,03380 | 0,062640 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 9 | 158,13 | 0,540 | 0,580 | 0,225 | 1423 | 1595 | 12 % | | 17600 | 1,13040 | 0,070470 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 10 | 158,13 | 0,600 | 0,580 | 0,225 | 1581 | 1763 | 12 % | | 17600 | 1,22700 | 0,078300 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 11 | 158,13 | 0,660 | 0,580 | 0,225 | 1739 | 1931 | 11 % | | 17600 | 1,32360 | 0,086130 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 12 | 158,13 | 0,720 | 0,580 | 0,225 | 1898 | 2100 | 11 % | | 17600 | 1,42020 | 0,093960 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 13 | 158,13 | 0,780 | 0,580 | 0,225 | 2056 | 2268 | 10 % | | 17600 | 1,51680 | 0,101790 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 14 | 158,13 | 0,840 | 0,580 | 0,225 | 2214 | 2436 | 10 % | | 17600 | 1,61340 | 0,109620 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 15 | 158,13 | 0,900 | 0,580 | 0,225 | 2372 | 2604 | 10 % | | 17600 | 1,71000 | 0,117450 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 16 | 158,13 | 0,960 | 0,580 | 0,225 | 2530 | 2772 | 10 % | | 17600 | 1,80660 | 0,125280 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 17 | 158,13 | 1,020 | 0,580 | 0,225 | 2688 | 2940 | 9 % | | 17600 | 1,90320 | 0,133110 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 18 | 158,13 | 1,080 | 0,580 | 0,225 | 2846 | 3108 | 9 % | | 17600 | 1,99980 | 0,140940 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 19 | 158,13 | 1,140 | 0,580 | 0,225 | 3004 | 3277 | 9 % | | 17600 | 2,09640 | 0,148770 | 5 |
| EN442 - Anlage | BIASI - LBT 6/580 | 20 | 158,13 | 1,200 | 0,580 | 0,225 | 3163 | 3445 | 9 % | | 17600 | 2,19300 | 0,156600 | 5 |
| 5.....966 | Union (80) | 1 | 170 | 0,080 | 0,645 | 0,220 | 170 | 332 | 96 % | | 17600 | 0,42220 | 0,011352 | 5 |
| 5.....966 | Union (80) | 2 | 170 | 0,160 | 0,645 | 0,220 | 340 | 576 | 69 % | | 17600 | 0,56060 | 0,022704 | 5 |
| 5.....966 | Union (80) | 3 | 170 | 0,240 | 0,645 | 0,220 | 510 | 819 | 61 % | | 17600 | 0,69900 | 0,034056 | 5 |
| 5.....966 | Union (80) | 4 | 170 | 0,320 | 0,645 | 0,220 | 680 | 1062 | 56 % | | 17600 | 0,83740 | 0,045408 | 5 |
| 5.....966 | Union (80) | 5 | 170 | 0,400 | 0,645 | 0,220 | 850 | 1305 | 54 % | | 17600 | 0,97580 | 0,056760 | 5 |
| 5.....966 | Union (80) | 6 | 170 | 0,480 | 0,645 | 0,220 | 1020 | 1549 | 52 % | | 17600 | 1,11420 | 0,068112 | 5 |
| 5.....966 | Union (80) | 7 | 170 | 0,560 | 0,645 | 0,220 | 1190 | 1792 | 51 % | | 17600 | 1,25260 | 0,079464 | 5 |
| 5.....966 | Union (80) | 8 | 170 | 0,640 | 0,645 | 0,220 | 1360 | 2035 | 50 % | | 17600 | 1,39100 | 0,090816 | 5 |
| 5.....966 | Union (80) | 9 | 170 | 0,720 | 0,645 | 0,220 | 1530 | 2278 | 49 % | | 17600 | 1,52940 | 0,102168 | 5 |
| 5.....966 | Union (80) | 10 | 170 | 0,800 | 0,645 | 0,220 | 1700 | 2522 | 48 % | | 17600 | 1,66780 | 0,113520 | 5 |
| 5.....966 | Union (80) | 11 | 170 | 0,880 | 0,645 | 0,220 | 1870 | 2765 | 48 % | | 17600 | 1,806320 | 0,124872 | 5 |
| 5.....966 | Union (80) | 12 | 170 | 0,960 | 0,645 | 0,220 | 2040 | 3008 | 47 % | | 17600 | 1,94460 | 0,136224 | 5 |
| 5.....966 | Union (80) | 13 | 170 | 1,040 | 0,645 | 0,220 | 2210 | 3251 | 47 % | | 17600 | 2,08300 | 0,147576 | 5 |
| 5.....966 | Union (80) | 14 | 170 | 1,120 | 0,645 | 0,220 | 2380 | 3495 | 47 % | | 17600 | 2,22140 | 0,158928 | 5 |
| 5.....966 | Union (80) | 15 | 170 | 1,200 | 0,645 | 0,220 | 2550 | 3738 | 47 % | | 17600 | 2,35980 | 0,170280 | 5 |
| 5.....966 | Union (80) | 16 | 170 | 1,280 | 0,645 | 0,220 | 2720 | 3981 | 46 % | | 17600 | 2,49820 | 0,181632 | 5 |
| 5.....966 | Union (80) | 17 | 170 | 1,360 | 0,645 | 0,220 | 2890 | 4224 | 46 % | | 17600 | 2,63660 | 0,192984 | 5 |
| 5.....966 | Union (80) | 18 | 170 | 1,440 | 0,645 | 0,220 | 3060 | 4468 | 46 % | | 17600 | 2,77500 | 0,204336 | 5 |
| 5.....966 | Union (80) | 19 | 170 | 1,520 | 0,645 | 0,220 | 3230 | 4711 | 46 % | | 17600 | 2,91340 | 0,215688 | 5 |
| 5.....966 | Union (80) | 20 | 170 | 1,600 | 0,645 | 0,220 | 3400 | 4954 | 46 % | | 17600 | 3,05180 | 0,227040 | 5 |
| 5.....966 | Union (80) | 21 | 170 | 1,680 | 0,645 | 0,220 | 3570 | 5197 | 46 % | | 17600 | 3,19020 | 0,238392 | 5 |
| 5.....966 | Union (80) | 22 | 170 | 1,760 | 0,645 | 0,220 | 3740 | 5441 | 45 % | | 17600 | 3,32860 | 0,249744 | 5 |
| 5.....966 | Union (80) | 23 | 170 | 1,840 | 0,645 | 0,220 | 3910 | 5684 | 45 % | | 17600 | 3,46700 | 0,261096 | 5 |
| 5.....966 | Union (80) | 24 | 170 | 1,920 | 0,645 | 0,220 | 4080 | 5927 | 45 % | | 17600 | 3,60540 | 0,272448 | 5 |
| 5.....966 | Union (80) | 25 | 170 | 2,000 | 0,645 | 0,220 | 4250 | 6170 | 45 % | | 17600 | 3,74380 | 0,283800 | 5 |
| 5.....966 | Union (80) | 26 | 170 | 2,080 | 0,645 | 0,220 | 4420 | 6414 | 45 % | | 17600 | 3,88220 | 0,295152 | 5 |
| 5.....966 | Union (80) | 27 | 170 | 2,160 | 0,645 | 0,220 | 4590 | 6657 | 45 % | | 17600 | 4,02060 | 0,306504 | 5 |
| 5.....966 | Union (80) | 28 | 170 | 2,240 | 0,645 | 0,220 | 4760 | 6900 | 45 % | | 17600 | 4,15900 | 0,317856 | 5 |
| 5.....966 | Union (80) | 29 | 170 | 2,320 | 0,645 | 0,220 | 4930 | 7143 | 45 % | | 17600 | 4,29740 | 0,329208 | 5 |
| 5.....966 | Union (80) | 30 | 170 | 2,400 | 0,645 | 0,220 | 5100 | 7387 | 45 % | | 17600 | 4,43580 | 0,340560 | 5 |
| 5.....966 | Union (80) | 31 | 170 | 2,480 | 0,645 | 0,220 | 5270 | 7630 | 45 % | | 17600 | 4,57420 | 0,351912 | 5 |
| 5.....966 | Union (80) | 32 | 170 | 2,560 | 0,645 | 0,220 | 5440 | 7873 | 45 % | | 17600 | 4,71260 | 0,363264 | 5 |
| 5.....966 | Union (80) | 33 | 170 | 2,640 | 0,645 | 0,220 | 5610 | 8116 | 45 % | | 17600 | 4,85100 | 0,374616 | 5 |
| 5.....966 | Union (80) | 34 | 170 | 2,720 | 0,645 | 0,220 | 5780 | 8360 | 45 % | | 17600 | 4,98940 | 0,385688 | 5 |
| 5.....966 | Union (80) | 35 | 170 | 2,800 | 0,645 | 0,220 | | | | | | | | |

3.6 Comparative values for radiators of type 6 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|-----------|---------------------|-------|------|---------|--------|--------|-------|------|-----------------|--------------------------|----------------|---------------|----------|---|
| C.MID | Producer | Model | num. | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | coefficient UNI 10200 | surface (S) | volume (V) | type | |
| 5.....592 | Baufa - Sanapén(86) | | 1 | 152,65 | 0,086 | 0,980 | 0,139 | 153 | 344 | 125 % | 16900 | 0,46491 | 0,011715 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 2 | 152,65 | 0,172 | 0,980 | 0,139 | 305 | 602 | 97 % | 16900 | 0,65738 | 0,023430 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 3 | 152,65 | 0,258 | 0,980 | 0,139 | 458 | 861 | 88 % | 16900 | 0,84984 | 0,035145 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 4 | 152,65 | 0,344 | 0,980 | 0,139 | 611 | 1119 | 83 % | 16900 | 1,04231 | 0,046860 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 5 | 152,65 | 0,430 | 0,980 | 0,139 | 763 | 1378 | 80 % | 16900 | 1,23478 | 0,058579 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 6 | 152,65 | 0,516 | 0,980 | 0,139 | 916 | 1636 | 79 % | 16900 | 1,42725 | 0,070290 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 7 | 152,65 | 0,602 | 0,980 | 0,139 | 1069 | 1894 | 77 % | 16900 | 1,61972 | 0,082004 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 8 | 152,65 | 0,688 | 0,980 | 0,139 | 1221 | 2153 | 76 % | 16900 | 1,81218 | 0,093719 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 9 | 152,65 | 0,774 | 0,980 | 0,139 | 1374 | 2411 | 76 % | 16900 | 2,00465 | 0,105434 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 10 | 152,65 | 0,860 | 0,980 | 0,139 | 1527 | 2670 | 75 % | 16900 | 2,19712 | 0,117149 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 11 | 152,65 | 0,946 | 0,980 | 0,139 | 1679 | 2928 | 74 % | 16900 | 2,38959 | 0,128864 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 12 | 152,65 | 1,032 | 0,980 | 0,139 | 1832 | 3187 | 74 % | 16900 | 2,58206 | 0,140579 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 13 | 152,65 | 1,118 | 0,980 | 0,139 | 1984 | 3445 | 74 % | 16900 | 2,77452 | 0,152294 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 14 | 152,65 | 1,204 | 0,980 | 0,139 | 2137 | 3703 | 73 % | 16900 | 2,96699 | 0,164009 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 15 | 152,65 | 1,290 | 0,980 | 0,139 | 2290 | 3962 | 73 % | 16900 | 3,15946 | 0,175724 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 16 | 152,65 | 1,376 | 0,980 | 0,139 | 2442 | 4220 | 73 % | 16900 | 3,35193 | 0,187439 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 17 | 152,65 | 1,462 | 0,980 | 0,139 | 2595 | 4479 | 73 % | 16900 | 3,54440 | 0,199154 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 18 | 152,65 | 1,548 | 0,980 | 0,139 | 2748 | 4737 | 72 % | 16900 | 3,73686 | 0,210869 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 19 | 152,65 | 1,634 | 0,980 | 0,139 | 2900 | 4995 | 72 % | 16900 | 3,92933 | 0,222583 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 20 | 152,65 | 1,720 | 0,980 | 0,139 | 3053 | 5254 | 72 % | 16900 | 4,12180 | 0,234298 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 21 | 152,65 | 1,806 | 0,980 | 0,139 | 3206 | 5512 | 72 % | 16900 | 4,31427 | 0,246013 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 22 | 152,65 | 1,892 | 0,980 | 0,139 | 3358 | 5771 | 72 % | 16900 | 4,50674 | 0,257728 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 23 | 152,65 | 1,978 | 0,980 | 0,139 | 3511 | 6029 | 72 % | 16900 | 4,69920 | 0,269443 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 24 | 152,65 | 2,064 | 0,980 | 0,139 | 3664 | 6288 | 72 % | 16900 | 4,89167 | 0,281158 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 25 | 152,65 | 2,150 | 0,980 | 0,139 | 3816 | 6546 | 72 % | 16900 | 5,08414 | 0,292873 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 26 | 152,65 | 2,236 | 0,980 | 0,139 | 3969 | 6804 | 71 % | 16900 | 5,27661 | 0,304588 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 27 | 152,65 | 2,322 | 0,980 | 0,139 | 4122 | 7063 | 71 % | 16900 | 5,46908 | 0,316303 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 28 | 152,65 | 2,408 | 0,980 | 0,139 | 4274 | 7321 | 71 % | 16900 | 5,66154 | 0,328018 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 29 | 152,65 | 2,494 | 0,980 | 0,139 | 4427 | 7580 | 71 % | 16900 | 5,85401 | 0,339733 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 30 | 152,65 | 2,580 | 0,980 | 0,139 | 4580 | 7838 | 71 % | 16900 | 6,04648 | 0,351448 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 31 | 152,65 | 2,666 | 0,980 | 0,139 | 4732 | 8096 | 71 % | 16900 | 6,23895 | 0,363163 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 32 | 152,65 | 2,752 | 0,980 | 0,139 | 4885 | 8355 | 71 % | 16900 | 6,43142 | 0,374877 | 6 |
| 5.....592 | Baufa - Sanapén(86) | | 33 | 152,65 | 2,838 | 0,980 | 0,139 | 5037 | 8613 | 71 % | 16900 | 6,62388 | 0,386592 | 6 |

3.7 Comparative values for radiators of type 7 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|----------|-------------------------|-------|------|---------|--------|--------|-------|------|-----------------|--------------------------|----------------|---------------|----------|---|
| C..MID | Producer | Model | num. | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | coefficient UNI 10200 | surface (S) | volume (V) | type | |
| 5...130 | Chappée | 5 | 92,8 | 0,300 | 0,600 | 0,065 | | 464 | 387 | -17 % | 20300 | 0,47700 | 0,011700 | 7 |
| 5...130 | Chappée | 6 | 92,8 | 0,360 | 0,600 | 0,065 | 557 | 460 | -17 % | 20300 | 0,55680 | 0,014040 | 7 | |
| 5...130 | Chappée | 7 | 92,8 | 0,420 | 0,600 | 0,065 | 650 | 532 | -18 % | 20300 | 0,63660 | 0,016380 | 7 | |
| 5...130 | Chappée | 8 | 92,8 | 0,480 | 0,600 | 0,065 | 742 | 605 | -19 % | 20300 | 0,71640 | 0,018720 | 7 | |
| 5...130 | Chappée | 9 | 92,8 | 0,540 | 0,600 | 0,065 | 835 | 678 | -19 % | 20300 | 0,79620 | 0,021060 | 7 | |
| 5...130 | Chappée | 10 | 92,8 | 0,600 | 0,600 | 0,065 | 928 | 750 | -19 % | 20300 | 0,87600 | 0,023400 | 7 | |
| 5...130 | Chappée | 11 | 92,8 | 0,660 | 0,600 | 0,065 | 1021 | 823 | -19 % | 20300 | 0,95580 | 0,025740 | 7 | |
| 5...130 | Chappée | 12 | 92,8 | 0,720 | 0,600 | 0,065 | 1114 | 895 | -20 % | 20300 | 1,03560 | 0,028080 | 7 | |
| 5...130 | Chappée | 13 | 92,8 | 0,780 | 0,600 | 0,065 | 1206 | 968 | -20 % | 20300 | 1,11540 | 0,030420 | 7 | |
| 5...130 | Chappée | 14 | 92,8 | 0,840 | 0,600 | 0,065 | 1299 | 1040 | -20 % | 20300 | 1,19520 | 0,032760 | 7 | |
| 5...130 | Chappée | 15 | 92,8 | 0,900 | 0,600 | 0,065 | 1392 | 1113 | -20 % | 20300 | 1,27500 | 0,035100 | 7 | |
| 5...130 | Chappée | 16 | 92,8 | 0,960 | 0,600 | 0,065 | 1485 | 1185 | -20 % | 20300 | 1,35480 | 0,037440 | 7 | |
| 5...130 | Chappée | 17 | 92,8 | 1,020 | 0,600 | 0,065 | 1578 | 1258 | -20 % | 20300 | 1,43460 | 0,039780 | 7 | |
| 5...130 | Chappée | 18 | 92,8 | 1,080 | 0,600 | 0,065 | 1670 | 1331 | -20 % | 20300 | 1,51440 | 0,042120 | 7 | |
| 5...130 | Chappée | 19 | 92,8 | 1,140 | 0,600 | 0,065 | 1763 | 1403 | -20 % | 20300 | 1,59420 | 0,044460 | 7 | |
| 5...130 | Chappée | 20 | 92,8 | 1,200 | 0,600 | 0,065 | 1856 | 1476 | -20 % | 20300 | 1,67400 | 0,046800 | 7 | |
| 5...130 | Chappée | 21 | 92,8 | 1,260 | 0,600 | 0,065 | 1949 | 1548 | -21 % | 20300 | 1,75380 | 0,049140 | 7 | |
| 5...130 | Chappée | 22 | 92,8 | 1,320 | 0,600 | 0,065 | 2042 | 1621 | -21 % | 20300 | 1,83360 | 0,051480 | 7 | |
| 5...130 | Chappée | 23 | 92,8 | 1,380 | 0,600 | 0,065 | 2134 | 1693 | -21 % | 20300 | 1,91340 | 0,053820 | 7 | |
| 5...130 | Chappée | 24 | 92,8 | 1,440 | 0,600 | 0,065 | 2227 | 1766 | -21 % | 20300 | 1,99320 | 0,056160 | 7 | |
| 5...130 | Chappée | 25 | 92,8 | 1,500 | 0,600 | 0,065 | 2320 | 1838 | -21 % | 20300 | 2,07300 | 0,058500 | 7 | |
| 5...130 | Chappée | 26 | 92,8 | 1,560 | 0,600 | 0,065 | 2413 | 1911 | -21 % | 20300 | 2,15280 | 0,060840 | 7 | |
| 5...130 | Chappée | 27 | 92,8 | 1,620 | 0,600 | 0,065 | 2506 | 1984 | -21 % | 20300 | 2,23260 | 0,063180 | 7 | |
| 5...130 | Chappée | 28 | 92,8 | 1,680 | 0,600 | 0,065 | 2598 | 2056 | -21 % | 20300 | 2,31240 | 0,065520 | 7 | |
| 5...130 | Chappée | 29 | 92,8 | 1,740 | 0,600 | 0,065 | 2691 | 2129 | -21 % | 20300 | 2,39220 | 0,067860 | 7 | |
| 5...130 | Chappée | 30 | 92,8 | 1,800 | 0,600 | 0,065 | 2784 | 2201 | -21 % | 20300 | 2,47200 | 0,070200 | 7 | |
| 5...130 | Chappée | 31 | 92,8 | 1,860 | 0,600 | 0,065 | 2877 | 2274 | -21 % | 20300 | 2,55180 | 0,072540 | 7 | |
| 5...612 | Ideal Standard - Rafael | 14 | 114 | 0,840 | 0,558 | 0,094 | 1596 | 1271 | -20 % | 20300 | 1,20026 | 0,044060 | 7 | |
| 5...612 | Ideal Standard - Rafael | 15 | 114 | 0,900 | 0,558 | 0,094 | 1710 | 1360 | -20 % | 20300 | 1,27850 | 0,047207 | 7 | |
| 5...612 | Ideal Standard - Rafael | 16 | 114 | 0,960 | 0,558 | 0,094 | 1824 | 1448 | -21 % | 20300 | 1,35674 | 0,050354 | 7 | |
| 5...612 | Ideal Standard - Rafael | 17 | 114 | 1,020 | 0,558 | 0,094 | 1938 | 1537 | -21 % | 20300 | 1,43498 | 0,053501 | 7 | |
| 5...612 | Ideal Standard - Rafael | 18 | 114 | 1,080 | 0,558 | 0,094 | 2052 | 1625 | -21 % | 20300 | 1,51322 | 0,056648 | 7 | |
| 5...612 | Ideal Standard - Rafael | 20 | 114 | 1,200 | 0,558 | 0,094 | 2280 | 1802 | -21 % | 20300 | 1,66970 | 0,062942 | 7 | |
| 5...612 | Ideal Standard - Rafael | 21 | 114 | 1,260 | 0,558 | 0,094 | 2394 | 1890 | -21 % | 20300 | 1,74794 | 0,066090 | 7 | |
| 5...612 | Ideal Standard - Rafael | 22 | 114 | 1,320 | 0,558 | 0,094 | 2508 | 1979 | -21 % | 20300 | 1,82618 | 0,069237 | 7 | |
| 5...612 | Ideal Standard - Rafael | 23 | 114 | 1,380 | 0,558 | 0,094 | 2622 | 2067 | -21 % | 20300 | 1,90442 | 0,072384 | 7 | |
| 5...612 | Ideal Standard - Rafael | 24 | 114 | 1,440 | 0,558 | 0,094 | 2736 | 2156 | -21 % | 20300 | 1,98266 | 0,075531 | 7 | |
| 5...612 | Ideal Standard - Rafael | 25 | 114 | 1,500 | 0,558 | 0,094 | 2850 | 2244 | -21 % | 20300 | 2,06090 | 0,078678 | 7 | |
| 5...612 | Ideal Standard - Rafael | 28 | 114 | 1,680 | 0,558 | 0,094 | 3192 | 2510 | -21 % | 20300 | 2,29562 | 0,088119 | 7 | |
| 5...612 | Ideal Standard - Rafael | 29 | 114 | 1,740 | 0,558 | 0,094 | 3306 | 2598 | -21 % | 20300 | 2,37386 | 0,091266 | 7 | |
| 5...612 | Ideal Standard - Rafael | 30 | 114 | 1,800 | 0,558 | 0,094 | 3420 | 2687 | -21 % | 20300 | 2,45210 | 0,094414 | 7 | |
| 5...612 | Ideal Standard - Rafael | 31 | 114 | 1,860 | 0,558 | 0,094 | 3534 | 2775 | -21 % | 20300 | 2,53034 | 0,097561 | 7 | |
| 5...612 | Ideal Standard - Rafael | 32 | 114 | 1,920 | 0,558 | 0,094 | 3648 | 2863 | -22 % | 20300 | 2,60858 | 0,100708 | 7 | |
| 5...612 | Ideal Standard - Rafael | 33 | 114 | 1,980 | 0,558 | 0,094 | 3762 | 2952 | -22 % | 20300 | 2,68682 | 0,103855 | 7 | |
| 5...1333 | Chappée | 10 | 122 | 0,630 | 0,285 | 0,223 | 1220 | 1054 | -14 % | 20300 | 0,76719 | 0,040040 | 7 | |
| 5...1333 | Chappée | 11 | 122 | 0,693 | 0,285 | 0,223 | 1342 | 1155 | -14 % | 20300 | 0,83120 | 0,044044 | 7 | |
| 5...1333 | Chappée | 12 | 122 | 0,756 | 0,285 | 0,223 | 1464 | 1256 | -14 % | 20300 | 0,89521 | 0,048048 | 7 | |
| 5...1333 | Chappée | 13 | 122 | 0,819 | 0,285 | 0,223 | 1586 | 1358 | -14 % | 20300 | 0,95921 | 0,052052 | 7 | |
| 5...1333 | Chappée | 14 | 122 | 0,882 | 0,285 | 0,223 | 1708 | 1459 | -15 % | 20300 | 1,02322 | 0,056056 | 7 | |
| 5...1333 | Chappée | 15 | 122 | 0,945 | 0,285 | 0,223 | 1830 | 1561 | -15 % | 20300 | 1,08723 | 0,060059 | 7 | |
| 5...1333 | Chappée | 16 | 122 | 1,008 | 0,285 | 0,223 | 1952 | 1662 | -15 % | 20300 | 1,15124 | 0,064063 | 7 | |
| 5...1333 | Chappée | 17 | 122 | 1,071 | 0,285 | 0,223 | 2074 | 1763 | -15 % | 20300 | 1,21525 | 0,068067 | 7 | |
| 5...1333 | Chappée | 18 | 122 | 1,134 | 0,285 | 0,223 | 2196 | 1865 | -15 % | 20300 | 1,27925 | 0,072071 | 7 | |
| 5...1333 | Chappée | 19 | 122 | 1,197 | 0,285 | 0,223 | 2318 | 1966 | -15 % | 20300 | 1,34326 | 0,076075 | 7 | |
| 5...1333 | Chappée | 20 | 122 | 1,260 | 0,285 | 0,223 | 2440 | 2067 | -15 % | 20300 | 1,40727 | 0,080079 | 7 | |
| 5...1333 | Chappée | 21 | 122 | 1,323 | 0,285 | 0,223 | 2562 | 2169 | -15 % | 20300 | 1,47128 | 0,084083 | 7 | |
| 5...1333 | Chappée | 22 | 122 | 1,386 | 0,285 | 0,223 | 2684 | 2270 | -15 % | 20300 | 1,53529 | 0,088087 | 7 | |
| 5...1333 | Chappée | 23 | 122 | 1,449 | 0,285 | 0,223 | 2806 | 2372 | -15 % | 20300 | 1,59929 | 0,092091 | 7 | |
| 5...1333 | Chappée | 24 | 122 | 1,512 | 0,285 | 0,223 | 2928 | 2473 | -16 % | 20300 | 1,66330 | 0,096095 | 7 | |
| 5...1333 | Chappée | 25 | 122 | 1,575 | 0,285 | 0,223 | 3050 | 2574 | -16 % | 20300 | 1,72731 | 0,100099 | 7 | |
| 5...1333 | Chappée | 26 | 122 | 1,638 | 0,285 | 0,223 | 3172 | 2676 | -16 % | 20300 | 1,79132 | 0,104103 | 7 | |
| 5...1333 | Chappée | 27 | 122 | 1,701 | 0,285 | 0,223 | 3294 | 2777 | -16 % | 20300 | 1,85533 | 0,108107 | 7 | |
| 5...1333 | Chappée | 28 | 122 | 1,764 | 0,285 | 0,223 | 3416 | 2879 | -16 % | 20300 | 1,91933 | 0,112111 | 7 | |
| 5...1333 | Chappée | 29 | 122 | 1,827 | 0,285 | 0,223 | 3538 | 2980 | -16 % | 20300 | 1,98334 | 0,116115 | 7 | |
| 5...1333 | Chappée | 30 | 122 | 1,890 | 0,285 | 0,223 | 3660 | 3081 | -16 % | 20300 | 2,04735 | 0,120119 | 7 | |
| 5...1333 | Chappée | 31 | 122 | 1,953 | 0,285 | 0,223 | 3782 | 3183 | -16 % | 20300 | 2,11136 | 0,124123 | 7 | |
| 5...1333 | Chappée | 32 | 122 | 2,016 | 0,285 | 0,223 | 3904 | 3284 | -16 % | 20300 | 2,17537 | 0,128127 | 7 | |
| 5...1333 | Chappée | 33 | 122 | 2,079 | 0,285 | 0,223 | 4026 | 3385 | -16 % | 20300 | 2,23937 | 0,132131 | 7 | |
| 5...1333 | Chappée | 34 | 122 | 2,142 | 0,285 | 0,223 | 4148 | 3487 | -16 % | 20300 | 2,30338 | 0,136135 | 7 | |

3.8 Comparative values for radiators of type 8 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|----------------|-------------------|-------|-------------|---------|--------|-------|-------|-----------------|---------|-------------------------|-------------------|-------------------|----------|---|
| | Producer | Model | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | | coefficient UNI 1020 | surface (S) | volume (V) | | |
| C..MID | | | num elec | 90/70/2 | (l) | (h) | (p) | 90/70/20 | 90/70/2 | | (m ²) | (m ³) | type | |
| EN442 - Anlage | BIASI - PRG 2/566 | | 1 | 70,47 | 0,060 | 0,566 | 0,060 | 70 | 89 | 26 % | 21400 | 0,14304 | 0,002038 | 8 |
| EN442 - Anlage | BIASI - PRG 2/566 | | 2 | 70,47 | 0,120 | 0,566 | 0,060 | 141 | 156 | 10 % | 21400 | 0,21816 | 0,004075 | 8 |
| EN442 - Anlage | BIASI - PRG 2/566 | | 3 | 70,47 | 0,180 | 0,566 | 0,060 | 211 | 223 | 5 % | 21400 | 0,29328 | 0,006113 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 1 | 145,2 | 0,060 | 0,880 | 0,095 | 145 | 197 | 35 % | 21400 | 0,28420 | 0,005016 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 2 | 145,2 | 0,120 | 0,880 | 0,095 | 290 | 341 | 17 % | 21400 | 0,40120 | 0,010032 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 3 | 145,2 | 0,180 | 0,880 | 0,095 | 436 | 485 | 11 % | 21400 | 0,51820 | 0,015048 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 4 | 145,2 | 0,240 | 0,880 | 0,095 | 581 | 629 | 8 % | 21400 | 0,63520 | 0,020064 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 5 | 145,2 | 0,300 | 0,880 | 0,095 | 726 | 773 | 6 % | 21400 | 0,75220 | 0,025080 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 6 | 145,2 | 0,360 | 0,880 | 0,095 | 871 | 917 | 5 % | 21400 | 0,86920 | 0,030096 | 8 |
| EN442 - Anlage | BIASI - PRG 3/880 | | 10 | 145,2 | 0,600 | 0,880 | 0,095 | 1452 | 1493 | 3 % | 21400 | 1,33720 | 0,050160 | 8 |
| EN442 - Anlage | BIASI - PRG 5/566 | | 1 | 151,62 | 0,060 | 0,566 | 0,165 | 152 | 206 | 36 % | 21400 | 0,27450 | 0,005603 | 8 |
| EN442 - Anlage | BIASI - PRG 5/566 | | 2 | 151,62 | 0,120 | 0,566 | 0,165 | 303 | 354 | 17 % | 21400 | 0,36222 | 0,011207 | 8 |
| EN442 - Anlage | BIASI - PRG 5/566 | | 3 | 151,62 | 0,180 | 0,566 | 0,165 | 455 | 501 | 10 % | 21400 | 0,44994 | 0,016810 | 8 |
| EN442 - Anlage | BIASI - PRG 5/566 | | 4 | 151,62 | 0,240 | 0,566 | 0,165 | 606 | 648 | 7 % | 21400 | 0,53766 | 0,022414 | 8 |
| 5...1191 | Ferriol - Exact | | 1 | 178 | 0,065 | 0,680 | 0,125 | 178 | 204 | 15 % | 21400 | 0,27465 | 0,005525 | 8 |
| 5...1191 | Ferriol - Exact | | 7 | 178 | 0,455 | 0,680 | 0,125 | 1246 | 1111 | -11 % | 21400 | 0,90255 | 0,038675 | 8 |
| 5...1191 | Ferriol - Exact | | 8 | 178 | 0,520 | 0,680 | 0,125 | 1424 | 1262 | -11 % | 21400 | 1,00720 | 0,044200 | 8 |
| 5...1191 | Ferriol - Exact | | 9 | 178 | 0,585 | 0,680 | 0,125 | 1602 | 1413 | -12 % | 21400 | 1,11185 | 0,049725 | 8 |
| 5...1191 | Ferriol - Exact | | 10 | 178 | 0,650 | 0,680 | 0,125 | 1780 | 1564 | -12 % | 21400 | 1,21650 | 0,055250 | 8 |
| 5...1191 | Ferriol - Exact | | 11 | 178 | 0,715 | 0,680 | 0,125 | 1958 | 1715 | -12 % | 21400 | 1,32115 | 0,060775 | 8 |
| 5...1191 | Ferriol - Exact | | 12 | 178 | 0,780 | 0,680 | 0,125 | 2136 | 1867 | -13 % | 21400 | 1,42580 | 0,063600 | 8 |
| 5...1191 | Ferriol - Exact | | 13 | 178 | 0,845 | 0,680 | 0,125 | 2314 | 2018 | -13 % | 21400 | 1,53045 | 0,071825 | 8 |
| 5...1191 | Ferriol - Exact | | 14 | 178 | 0,910 | 0,680 | 0,125 | 2492 | 2169 | -13 % | 21400 | 1,63510 | 0,077350 | 8 |
| 5...1191 | Ferriol - Exact | | 15 | 178 | 0,975 | 0,680 | 0,125 | 2670 | 2320 | -13 % | 21400 | 1,73975 | 0,082875 | 8 |
| 5...1191 | Ferriol - Exact | | 16 | 178 | 1,040 | 0,680 | 0,125 | 2848 | 2471 | -13 % | 21400 | 1,84440 | 0,088400 | 8 |
| 5...1191 | Ferriol - Exact | | 17 | 178 | 1,105 | 0,680 | 0,125 | 3026 | 2622 | -13 % | 21400 | 1,94905 | 0,093925 | 8 |
| 5...1191 | Ferriol - Exact | | 17 | 178 | 1,165 | 0,680 | 0,125 | 3026 | 2622 | -13 % | 21400 | 1,94905 | 0,093925 | 8 |
| 5...1191 | Ferriol - Exact | | 18 | 178 | 1,170 | 0,680 | 0,125 | 3204 | 2773 | -13 % | 21400 | 2,05370 | 0,099450 | 8 |
| 5...1191 | Ferriol - Exact | | 18 | 178 | 1,170 | 0,680 | 0,125 | 3204 | 2773 | -13 % | 21400 | 2,05370 | 0,099450 | 8 |
| 5...1191 | Ferriol - Exact | | 19 | 178 | 1,235 | 0,680 | 0,125 | 3382 | 2924 | -14 % | 21400 | 2,15835 | 0,104975 | 8 |
| 5...1191 | Ferriol - Exact | | 19 | 178 | 1,235 | 0,680 | 0,125 | 3382 | 2924 | -14 % | 21400 | 2,15835 | 0,104975 | 8 |
| 5...1191 | Ferriol - Exact | | 20 | 178 | 1,300 | 0,680 | 0,125 | 3560 | 3075 | -14 % | 21400 | 2,26300 | 0,110500 | 8 |
| 5...1191 | Ferriol - Exact | | 20 | 178 | 1,300 | 0,680 | 0,125 | 3560 | 3075 | -14 % | 21400 | 2,26300 | 0,110500 | 8 |
| 5...1191 | Ferriol - Exact | | 21 | 178 | 1,365 | 0,680 | 0,125 | 3738 | 3226 | -14 % | 21400 | 2,36765 | 0,116025 | 8 |
| 5...1191 | Ferriol - Exact | | 21 | 178 | 1,365 | 0,680 | 0,125 | 3738 | 3226 | -14 % | 21400 | 2,36765 | 0,116025 | 8 |
| 5...1191 | Ferriol - Exact | | 22 | 178 | 1,430 | 0,680 | 0,125 | 3916 | 3377 | -14 % | 21400 | 2,47230 | 0,121550 | 8 |
| 5...1191 | Ferriol - Exact | | 23 | 178 | 1,495 | 0,680 | 0,125 | 4094 | 3529 | -14 % | 21400 | 2,57695 | 0,127075 | 8 |
| 5...1191 | Ferriol - Exact | | 24 | 178 | 1,560 | 0,680 | 0,125 | 4272 | 3680 | -14 % | 21400 | 2,68160 | 0,132600 | 8 |
| EN442 - Anlage | BIASI - PRG 5/690 | | 1 | 180,84 | 0,060 | 0,690 | 0,165 | 181 | 250 | 38 % | 21400 | 0,33030 | 0,006831 | 8 |
| EN442 - Anlage | BIASI - PRG 5/690 | | 2 | 180,84 | 0,120 | 0,690 | 0,165 | 362 | 428 | 18 % | 21400 | 0,43290 | 0,013662 | 8 |
| EN442 - Anlage | BIASI - PRG 5/690 | | 3 | 180,84 | 0,180 | 0,690 | 0,165 | 543 | 607 | 12 % | 21400 | 0,53550 | 0,020493 | 8 |
| EN442 - Anlage | BIASI - PRG 5/690 | | 4 | 180,84 | 0,240 | 0,690 | 0,165 | 723 | 785 | 9 % | 21400 | 0,63810 | 0,027324 | 8 |
| EN442 - Anlage | BIASI - PRG 5/690 | | 5 | 180,84 | 0,300 | 0,690 | 0,165 | 904 | 963 | 7 % | 21400 | 0,74070 | 0,034155 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 6 | 180,84 | 0,360 | 0,690 | 0,165 | 1085 | 1142 | 5 % | 21400 | 0,84330 | 0,040986 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 1 | 185,06 | 0,060 | 0,880 | 0,130 | 185 | 257 | 39 % | 21400 | 0,35000 | 0,006864 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 2 | 185,06 | 0,120 | 0,880 | 0,130 | 370 | 442 | 19 % | 21400 | 0,47120 | 0,013728 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 3 | 185,06 | 0,180 | 0,880 | 0,130 | 555 | 627 | 13 % | 21400 | 0,59240 | 0,020592 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 4 | 185,06 | 0,240 | 0,880 | 0,130 | 740 | 812 | 10 % | 21400 | 0,71360 | 0,027456 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 5 | 185,06 | 0,300 | 0,880 | 0,130 | 925 | 997 | 8 % | 21400 | 0,83480 | 0,034320 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 6 | 185,06 | 0,360 | 0,880 | 0,130 | 1110 | 1182 | 6 % | 21400 | 0,95600 | 0,041184 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 7 | 185,06 | 0,420 | 0,880 | 0,130 | 1295 | 1366 | 5 % | 21400 | 1,07720 | 0,040848 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 8 | 185,06 | 0,480 | 0,880 | 0,130 | 1480 | 1551 | 5 % | 21400 | 1,19840 | 0,054912 | 8 |
| EN442 - Anlage | BIASI - PRG 4/880 | | 12 | 185,06 | 0,720 | 0,880 | 0,130 | 2221 | 2291 | 3 % | 21400 | 1,68320 | 0,082368 | 8 |
| 5...1190 | Ferriol - Exact | | 1 | 216 | 0,065 | 0,880 | 0,125 | 216 | 263 | 22 % | 21400 | 0,35065 | 0,007150 | 8 |
| 5...1190 | Ferriol - Exact | | 7 | 216 | 0,455 | 0,880 | 0,125 | 1512 | 1427 | -6 % | 21400 | 1,13455 | 0,050050 | 8 |
| 5...1190 | Ferriol - Exact | | 8 | 216 | 0,520 | 0,880 | 0,125 | 1728 | 1621 | -6 % | 21400 | 1,26520 | 0,057200 | 8 |
| 5...1190 | Ferriol - Exact | | 9 | 216 | 0,585 | 0,880 | 0,125 | 1944 | 1815 | -7 % | 21400 | 1,39585 | 0,064350 | 8 |
| 5...1190 | Ferriol - Exact | | 9 | 216 | 0,585 | 0,880 | 0,125 | 1944 | 1815 | -7 % | 21400 | 1,39585 | 0,064350 | 8 |
| 5...1190 | Ferriol - Exact | | 10 | 216 | 0,650 | 0,880 | 0,125 | 2160 | 2009 | -7 % | 21400 | 1,52650 | 0,071500 | 8 |
| 5...1190 | Ferriol - Exact | | 11 | 216 | 0,715 | 0,880 | 0,125 | 2376 | 2203 | -7 % | 21400 | 1,65715 | 0,078650 | 8 |
| 5...1190 | Ferriol - Exact | | 11 | 216 | 0,715 | 0,880 | 0,125 | 2376 | 2203 | -7 % | 21400 | 1,65715 | 0,078650 | 8 |
| 5...1190 | Ferriol - Exact | | 12 | 216 | 0,780 | 0,880 | 0,125 | 2592 | 2397 | -8 % | 21400 | 1,78780 | 0,085800 | 8 |
| 5...1190 | Ferriol - Exact | | 12 | 216 | 0,780 | 0,880 | 0,125 | 2592 | 2397 | -8 % | 21400 | 1,78780 | 0,085800 | 8 |
| 5...1190 | Ferriol - Exact | | 13 | 216 | 0,845 | 0,880 | 0,125 | 2808 | 2592 | -8 % | 21400 | 1,91845 | 0,092950 | 8 |
| 5...1190 | Ferriol - Exact | | 14 | 216 | 0,910 | 0,880 | 0,125 | 3024 | 2786 | -8 % | 21400 | 2,04910 | 0,100100 | 8 |
| 5...1190 | Ferriol - Exact | | 15 | 216 | 0,975 | 0,880 | 0,125 | 3240 | 2980 | -8 % | 21400 | 2,17975 | 0,107250 | 8 |
| 5...1190 | Ferriol - Exact | | 15 | 216 | 0,975 | 0,880 | 0,125 | 3240 | 2980 | -8 % | 21400 | 2,17975 | 0,107250 | 8 |
| 5...1190 | Ferriol - Exact | | 16 | 216 | 1,040 | 0,880 | 0,125 | 3456 | 3174 | -8 % | 21400 | 2,31040 | 0,114400 | 8 |
| 5...1190 | Ferriol - Exact | | 17 | 216 | 1,105 | 0,880 | 0,125 | 3672 | 3368 | -8 % | 21400 | 2,44105 | 0,121550 | 8 |
| 5...1190 | Ferriol - Exact | | 18 | 216 | 1,170 | 0,880 | 0,125 | 3888 | 3562 | -8 % | 21400 | 2,57170 | 0,128700 | 8 |
| 5...1190 | Ferriol - Exact | | 19 | 216 | 1,235 | 0,880 | 0,125 | 4104 | 3756 | -8 %</ | | | | |

3.9 Comparative values for radiators of type 9 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------|----------------------|-------|---------------|--------------------|---------------|---------------|--------------|-----------------|-----------------|--------------------------------|-------------------------------------|------------------------------------|------|
| C..MID | Producer | Model | num. elem. | KQ/elem 90/70/2 | length (l) | height (h) | depth (p) | KQ UNI 10200 | KQ UNI 10200 | coefficient (k) UNI 1020 | surface (S) (m ²) | volume (V) (m ³) | type |
| 5....1216 | Gruppo Ragagni (160) | 1 | 257 | 0,160 | 0,570 | 0,097 | 257 | 350 | 36 % | 28100 | 0,32402 | 0,008846 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 2 | 257 | 0,320 | 0,570 | 0,097 | 513 | 666 | 30 % | 28100 | 0,53746 | 0,017693 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 3 | 257 | 0,480 | 0,570 | 0,097 | 770 | 982 | 27 % | 28100 | 0,75090 | 0,026539 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 4 | 257 | 0,640 | 0,570 | 0,097 | 1027 | 1297 | 26 % | 28100 | 0,96434 | 0,035386 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 5 | 257 | 0,800 | 0,570 | 0,097 | 1283 | 1613 | 26 % | 28100 | 1,17778 | 0,044232 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 6 | 257 | 0,960 | 0,570 | 0,097 | 1540 | 1928 | 25 % | 28100 | 1,39122 | 0,053078 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 7 | 257 | 1,120 | 0,570 | 0,097 | 1797 | 2244 | 25 % | 28100 | 1,60466 | 0,061925 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 8 | 257 | 1,280 | 0,570 | 0,097 | 2054 | 2560 | 25 % | 28100 | 1,81810 | 0,070771 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 9 | 257 | 1,440 | 0,570 | 0,097 | 2310 | 2875 | 24 % | 28100 | 2,03154 | 0,079618 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 10 | 257 | 1,600 | 0,570 | 0,097 | 2567 | 3191 | 24 % | 28100 | 2,24498 | 0,088464 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 11 | 257 | 1,760 | 0,570 | 0,097 | 2824 | 3506 | 24 % | 28100 | 2,45842 | 0,097310 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 12 | 257 | 1,920 | 0,570 | 0,097 | 3080 | 3822 | 24 % | 28100 | 2,67186 | 0,106157 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 13 | 257 | 2,080 | 0,570 | 0,097 | 3337 | 4138 | 24 % | 28100 | 2,88530 | 0,115003 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 14 | 257 | 2,240 | 0,570 | 0,097 | 3594 | 4453 | 24 % | 28100 | 3,09874 | 0,123850 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 15 | 257 | 2,400 | 0,570 | 0,097 | 3850 | 4769 | 24 % | 28100 | 3,31218 | 0,132696 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 16 | 257 | 2,560 | 0,570 | 0,097 | 4107 | 5084 | 24 % | 28100 | 3,52562 | 0,141542 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 17 | 257 | 2,720 | 0,570 | 0,097 | 4364 | 5400 | 24 % | 28100 | 3,73906 | 0,150389 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 18 | 257 | 2,880 | 0,570 | 0,097 | 4620 | 5716 | 24 % | 28100 | 3,95250 | 0,159235 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 19 | 257 | 3,040 | 0,570 | 0,097 | 4877 | 6031 | 24 % | 28100 | 4,16594 | 0,168082 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 20 | 257 | 3,200 | 0,570 | 0,097 | 5134 | 6347 | 24 % | 28100 | 4,37938 | 0,176928 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 21 | 257 | 3,360 | 0,570 | 0,097 | 5390 | 6662 | 24 % | 28100 | 4,59282 | 0,185774 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 22 | 257 | 3,520 | 0,570 | 0,097 | 5647 | 6978 | 24 % | 28100 | 4,80626 | 0,194621 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 23 | 257 | 3,680 | 0,570 | 0,097 | 5904 | 7294 | 24 % | 28100 | 5,01970 | 0,203467 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 24 | 257 | 3,840 | 0,570 | 0,097 | 6161 | 7609 | 24 % | 28100 | 5,23314 | 0,212314 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 25 | 257 | 4,000 | 0,570 | 0,097 | 6417 | 7925 | 23 % | 28100 | 5,44658 | 0,221160 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 26 | 257 | 4,160 | 0,570 | 0,097 | 6674 | 8240 | 23 % | 28100 | 5,66002 | 0,230006 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 27 | 257 | 4,320 | 0,570 | 0,097 | 6931 | 8556 | 23 % | 28100 | 5,87346 | 0,238853 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 28 | 257 | 4,480 | 0,570 | 0,097 | 7187 | 8872 | 23 % | 28100 | 6,08690 | 0,247699 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 29 | 257 | 4,640 | 0,570 | 0,097 | 7444 | 9187 | 23 % | 28100 | 6,30034 | 0,256546 | 9 |
| 5....1216 | Gruppo Ragagni (160) | 30 | 257 | 4,800 | 0,570 | 0,097 | 7701 | 9503 | 23 % | 28100 | 6,51378 | 0,265392 | 9 |

3.10 Comparative values for radiators of type 10 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------|-------------|-------|---------------|--------------------|---------------|---------------|--------------|-----------------|-----------------|--------------------------------|-------------------------------------|------------------------------------|------|
| C..MID | Producer | Model | num. elem. | KQ/elem 90/70/2 | length (l) | height (h) | depth (p) | KQ UNI 10200 | KQ UNI 10200 | coefficient (k) UNI 1020 | surface (S) (m ²) | volume (V) (m ³) | type |
| 5....500 | GL - Global | 1 | 195,8 | 0,080 | 0,690 | 0,095 | 196 | 211 | 8 % | 24800 | 0,25670 | 0,005244 | 10 |
| 5....500 | GL - Global | 6 | 195,8 | 0,480 | 0,690 | 0,095 | 1175 | 1058 | -10 % | 24800 | 0,88470 | 0,031464 | 10 |
| 5....500 | GL - Global | 7 | 195,8 | 0,550 | 0,690 | 0,095 | 1371 | 1228 | -10 % | 24800 | 1,01030 | 0,036708 | 10 |
| 5....500 | GL - Global | 8 | 195,8 | 0,640 | 0,690 | 0,095 | 1566 | 1397 | -11 % | 24800 | 1,13590 | 0,041952 | 10 |
| 5....500 | GL - Global | 9 | 195,8 | 0,720 | 0,690 | 0,095 | 1762 | 1567 | -11 % | 24800 | 1,26150 | 0,047196 | 10 |
| 5....500 | GL - Global | 10 | 195,8 | 0,800 | 0,690 | 0,095 | 1958 | 1736 | -11 % | 24800 | 1,38710 | 0,052440 | 10 |
| 5....500 | GL - Global | 11 | 195,8 | 0,880 | 0,690 | 0,095 | 2154 | 1906 | -12 % | 24800 | 1,51270 | 0,057684 | 10 |
| 5....500 | GL - Global | 12 | 195,8 | 0,960 | 0,690 | 0,095 | 2350 | 2075 | -12 % | 24800 | 1,63830 | 0,062928 | 10 |
| 5....500 | GL - Global | 13 | 195,8 | 1,040 | 0,690 | 0,095 | 2545 | 2245 | -12 % | 24800 | 1,76390 | 0,068172 | 10 |
| 5....500 | GL - Global | 14 | 195,8 | 1,120 | 0,690 | 0,095 | 2741 | 2414 | -12 % | 24800 | 1,88950 | 0,073416 | 10 |
| 5....500 | GL - Global | 15 | 195,8 | 1,200 | 0,690 | 0,095 | 2937 | 2584 | -12 % | 24800 | 2,01510 | 0,078660 | 10 |
| 5....500 | GL - Global | 16 | 195,8 | 1,280 | 0,690 | 0,095 | 3133 | 2753 | -12 % | 24800 | 2,14070 | 0,083904 | 10 |
| 5....501 | GL - Global | 1 | 206,5 | 0,080 | 0,440 | 0,178 | 207 | 236 | 14 % | 24800 | 0,25552 | 0,006266 | 10 |
| 5....501 | GL - Global | 6 | 206,5 | 0,480 | 0,440 | 0,178 | 1239 | 1168 | -6 % | 24800 | 0,74992 | 0,037594 | 10 |
| 5....501 | GL - Global | 7 | 206,5 | 0,560 | 0,440 | 0,178 | 1446 | 1354 | -6 % | 24800 | 0,84880 | 0,043859 | 10 |
| 5....501 | GL - Global | 8 | 206,5 | 0,640 | 0,440 | 0,178 | 1652 | 1541 | -7 % | 24800 | 0,94768 | 0,050123 | 10 |
| 5....501 | GL - Global | 9 | 206,5 | 0,720 | 0,440 | 0,178 | 1859 | 1727 | -7 % | 24800 | 1,04656 | 0,056390 | 10 |
| 5....501 | GL - Global | 10 | 206,5 | 0,800 | 0,440 | 0,178 | 2065 | 1914 | -7 % | 24800 | 1,14544 | 0,062656 | 10 |
| 5....501 | GL - Global | 11 | 206,5 | 0,880 | 0,440 | 0,178 | 2272 | 2100 | -8 % | 24800 | 1,24432 | 0,068922 | 10 |
| 5....501 | GL - Global | 12 | 206,5 | 0,960 | 0,440 | 0,178 | 2478 | 2286 | -8 % | 24800 | 1,34320 | 0,075187 | 10 |
| 5....501 | GL - Global | 13 | 206,5 | 1,040 | 0,440 | 0,178 | 2685 | 2473 | -8 % | 24800 | 1,44208 | 0,081453 | 10 |
| 5....501 | GL - Global | 14 | 206,5 | 1,120 | 0,440 | 0,178 | 2891 | 2659 | -8 % | 24800 | 1,54096 | 0,087718 | 10 |

3.11 Comparative values for radiators of type 11 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|-----------|---------------|-------|-----|---------|--------|--------|-------|----------|-----------------|-------|-------|---------|----------|----|
| C.MID | Producer | Model | num | KQ/elem | length | height | depth | KQ | KQ UNI 10200 | | | | type | |
| | | | ele | 90/70/2 | (l) | (h) | (p) | 90/70/20 | 90/70/2 | | | | | |
| 5.....833 | Cimin - Roby | (80) | 1 | 109 | 0,080 | 0,254 | 0,092 | 109 | 72 | -34 % | 21400 | 0,10210 | 0,001869 | 11 |
| 5.....833 | Cimin - Roby | (80) | 2 | 109 | 0,160 | 0,254 | 0,092 | 218 | 129 | -41 % | 21400 | 0,15746 | 0,003739 | 11 |
| 5.....833 | Cimin - Roby | (80) | 3 | 109 | 0,240 | 0,254 | 0,092 | 327 | 187 | -43 % | 21400 | 0,21282 | 0,005608 | 11 |
| 5.....833 | Cimin - Roby | (80) | 4 | 109 | 0,320 | 0,254 | 0,092 | 436 | 244 | -44 % | 21400 | 0,26818 | 0,007478 | 11 |
| 5.....833 | Cimin - Roby | (80) | 5 | 109 | 0,400 | 0,254 | 0,092 | 545 | 302 | -45 % | 21400 | 0,32354 | 0,009347 | 11 |
| 5.....833 | Cimin - Roby | (80) | 6 | 109 | 0,480 | 0,254 | 0,092 | 654 | 359 | -45 % | 21400 | 0,37890 | 0,011217 | 11 |
| 5.....833 | Cimin - Roby | (80) | 7 | 109 | 0,560 | 0,254 | 0,092 | 763 | 416 | -45 % | 21400 | 0,43426 | 0,013086 | 11 |
| 5.....833 | Cimin - Roby | (80) | 8 | 109 | 0,640 | 0,254 | 0,092 | 872 | 474 | -46 % | 21400 | 0,48962 | 0,014956 | 11 |
| 5.....833 | Cimin - Roby | (80) | 9 | 109 | 0,720 | 0,254 | 0,092 | 981 | 531 | -46 % | 21400 | 0,54498 | 0,016825 | 11 |
| 5.....833 | Cimin - Roby | (80) | 10 | 109 | 0,800 | 0,254 | 0,092 | 1090 | 589 | -46 % | 21400 | 0,60034 | 0,018694 | 11 |
| 5.....833 | Cimin - Roby | (80) | 11 | 109 | 0,880 | 0,254 | 0,092 | 1199 | 646 | -46 % | 21400 | 0,65570 | 0,020564 | 11 |
| 5.....833 | Cimin - Roby | (80) | 12 | 109 | 0,960 | 0,254 | 0,092 | 1308 | 703 | -46 % | 21400 | 0,71106 | 0,022433 | 11 |
| 5.....833 | Cimin - Roby | (80) | 13 | 109 | 1,040 | 0,254 | 0,092 | 1417 | 761 | -46 % | 21400 | 0,76642 | 0,024303 | 11 |
| 5.....833 | Cimin - Roby | (80) | 14 | 109 | 1,120 | 0,254 | 0,092 | 1526 | 818 | -46 % | 21400 | 0,82178 | 0,026172 | 11 |
| 5.....833 | Cimin - Roby | (80) | 15 | 109 | 1,200 | 0,254 | 0,092 | 1635 | 876 | -46 % | 21400 | 0,87714 | 0,028042 | 11 |
| 5.....833 | Cimin - Roby | (80) | 16 | 109 | 1,280 | 0,254 | 0,092 | 1744 | 933 | -47 % | 21400 | 0,93250 | 0,029911 | 11 |
| 5.....833 | Cimin - Roby | (80) | 17 | 109 | 1,360 | 0,254 | 0,092 | 1853 | 990 | -47 % | 21400 | 0,98786 | 0,031780 | 11 |
| 5.....833 | Cimin - Roby | (80) | 18 | 109 | 1,440 | 0,254 | 0,092 | 1962 | 1048 | -47 % | 21400 | 1,04322 | 0,036350 | 11 |
| 5.....833 | Cimin - Roby | (80) | 19 | 109 | 1,520 | 0,254 | 0,092 | 2071 | 1105 | -47 % | 21400 | 1,09858 | 0,035519 | 11 |
| 5.....833 | Cimin - Roby | (80) | 20 | 109 | 1,600 | 0,254 | 0,092 | 2180 | 1162 | -47 % | 21400 | 1,15394 | 0,037389 | 11 |
| 5.....833 | Cimin - Roby | (80) | 21 | 109 | 1,680 | 0,254 | 0,092 | 2289 | 1220 | -47 % | 21400 | 1,20930 | 0,039258 | 11 |
| 5.....833 | Cimin - Roby | (80) | 22 | 109 | 1,760 | 0,254 | 0,092 | 2398 | 1277 | -47 % | 21400 | 1,26466 | 0,041128 | 11 |
| 5.....833 | Cimin - Roby | (80) | 23 | 109 | 1,840 | 0,254 | 0,092 | 2507 | 1335 | -47 % | 21400 | 1,32002 | 0,042997 | 11 |
| 5.....833 | Cimin - Roby | (80) | 24 | 109 | 1,920 | 0,254 | 0,092 | 2616 | 1392 | -47 % | 21400 | 1,37538 | 0,044867 | 11 |
| 5.....833 | Cimin - Roby | (80) | 25 | 109 | 2,000 | 0,254 | 0,092 | 2725 | 1449 | -47 % | 21400 | 1,43074 | 0,046736 | 11 |
| 5.....593 | rag-all | (60) | 5 | 119,8 | 0,300 | 0,412 | 0,135 | 598 | 495 | -17 % | 21400 | 0,43944 | 0,016686 | 11 |
| 5.....593 | rag-all | (60) | 6 | 119,8 | 0,360 | 0,412 | 0,135 | 719 | 587 | -18 % | 21400 | 0,50508 | 0,020023 | 11 |
| 5.....593 | rag-all | (60) | 7 | 119,8 | 0,420 | 0,412 | 0,135 | 839 | 679 | -19 % | 21400 | 0,57072 | 0,023360 | 11 |
| 5.....593 | rag-all | (60) | 8 | 119,8 | 0,480 | 0,412 | 0,135 | 958 | 771 | -20 % | 21400 | 0,63636 | 0,026698 | 11 |
| 5.....593 | rag-all | (60) | 9 | 119,8 | 0,540 | 0,412 | 0,135 | 1078 | 863 | -20 % | 21400 | 0,70200 | 0,030035 | 11 |
| 5.....593 | rag-all | (60) | 10 | 119,8 | 0,600 | 0,412 | 0,135 | 1198 | 955 | -20 % | 21400 | 0,76764 | 0,033372 | 11 |
| 5.....593 | rag-all | (60) | 11 | 119,8 | 0,660 | 0,412 | 0,135 | 1318 | 1047 | -21 % | 21400 | 0,83328 | 0,036709 | 11 |
| 5.....593 | rag-all | (60) | 12 | 119,8 | 0,720 | 0,412 | 0,135 | 1438 | 1139 | -21 % | 21400 | 0,89892 | 0,040046 | 11 |
| 5.....593 | rag-all | (60) | 13 | 119,8 | 0,780 | 0,412 | 0,135 | 1557 | 1231 | -21 % | 21400 | 0,96456 | 0,043384 | 11 |
| 5.....593 | rag-all | (60) | 14 | 119,8 | 0,840 | 0,412 | 0,135 | 1677 | 1323 | -21 % | 21400 | 1,03020 | 0,046721 | 11 |
| 5.....593 | rag-all | (60) | 15 | 119,8 | 0,900 | 0,412 | 0,135 | 1797 | 1415 | -21 % | 21400 | 1,09584 | 0,050058 | 11 |
| 5.....593 | rag-all | (60) | 16 | 119,8 | 0,960 | 0,412 | 0,135 | 1917 | 1507 | -21 % | 21400 | 1,16148 | 0,053395 | 11 |
| 5.....593 | rag-all | (60) | 17 | 119,8 | 1,020 | 0,412 | 0,135 | 2037 | 1599 | -21 % | 21400 | 1,22712 | 0,056732 | 11 |
| 5.....593 | rag-all | (60) | 18 | 119,8 | 1,080 | 0,412 | 0,135 | 2156 | 1691 | -22 % | 21400 | 1,29276 | 0,060070 | 11 |
| 5.....593 | rag-all | (60) | 19 | 119,8 | 1,140 | 0,412 | 0,135 | 2276 | 1783 | -22 % | 21400 | 1,35840 | 0,063407 | 11 |
| 5.....593 | rag-all | (60) | 20 | 119,8 | 1,200 | 0,412 | 0,135 | 2396 | 1875 | -22 % | 21400 | 1,42404 | 0,066744 | 11 |
| 5.....593 | rag-all | (60) | 21 | 119,8 | 1,260 | 0,412 | 0,135 | 2516 | 1967 | -22 % | 21400 | 1,48968 | 0,070081 | 11 |
| 5.....593 | rag-all | (60) | 22 | 119,8 | 1,320 | 0,412 | 0,135 | 2636 | 2060 | -22 % | 21400 | 1,55532 | 0,073418 | 11 |
| 5.....593 | rag-all | (60) | 23 | 119,8 | 1,380 | 0,412 | 0,135 | 2755 | 2152 | -22 % | 21400 | 1,62096 | 0,076756 | 11 |
| 5.....593 | rag-all | (60) | 24 | 119,8 | 1,440 | 0,412 | 0,135 | 2875 | 2244 | -22 % | 21400 | 1,68660 | 0,080093 | 11 |
| 5.....593 | rag-all | (60) | 25 | 119,8 | 1,500 | 0,412 | 0,135 | 2995 | 2336 | -22 % | 21400 | 1,75224 | 0,083430 | 11 |
| 5.....593 | rag-all | (60) | 26 | 119,8 | 1,560 | 0,412 | 0,135 | 3115 | 2428 | -22 % | 21400 | 1,81788 | 0,086767 | 11 |
| 5.....593 | rag-all | (60) | 27 | 119,8 | 1,620 | 0,412 | 0,135 | 3235 | 2520 | -22 % | 21400 | 1,88352 | 0,090104 | 11 |
| 5.....593 | rag-all | (60) | 28 | 119,8 | 1,680 | 0,412 | 0,135 | 3354 | 2612 | -23 % | 21400 | 1,94916 | 0,093442 | 11 |
| 5.....593 | rag-all | (60) | 29 | 119,8 | 1,740 | 0,412 | 0,135 | 3474 | 2704 | -23 % | 21400 | 2,01480 | 0,096779 | 11 |
| 5.....593 | rag-all | (60) | 30 | 119,8 | 1,800 | 0,412 | 0,135 | 3594 | 2796 | -23 % | 21400 | 2,08044 | 0,100116 | 11 |
| 5.....159 | Manaut - Iber | (80) | 7 | 171 | 0,560 | 0,573 | 0,097 | 1197 | 940 | -21 % | 21400 | 0,66419 | 0,031234 | 11 |
| 5.....159 | Manaut - Iber | (80) | 8 | 171 | 0,640 | 0,573 | 0,097 | 1368 | 1069 | -22 % | 21400 | 0,79711 | 0,035696 | 11 |
| 5.....159 | Manaut - Iber | (80) | 9 | 171 | 0,720 | 0,573 | 0,097 | 1539 | 1198 | -22 % | 21400 | 1,07923 | 0,040158 | 11 |
| 5.....159 | Manaut - Iber | (80) | 10 | 171 | 0,800 | 0,573 | 0,097 | 1710 | 1328 | -22 % | 21400 | 1,18675 | 0,044620 | 11 |
| 5.....159 | Manaut - Iber | (80) | 11 | 171 | 0,880 | 0,573 | 0,097 | 1881 | 1457 | -23 % | 21400 | 1,29427 | 0,049082 | 11 |
| 5.....159 | Manaut - Iber | (80) | 12 | 171 | 0,960 | 0,573 | 0,097 | 2052 | 1586 | -23 % | 21400 | 1,40179 | 0,053544 | 11 |
| 5.....159 | Manaut - Iber | (80) | 13 | 171 | 1,040 | 0,573 | 0,097 | 2223 | 1715 | -23 % | 21400 | 1,50931 | 0,058006 | 11 |
| 5.....159 | Manaut - Iber | (80) | 15 | 171 | 1,200 | 0,573 | 0,097 | 2565 | 1974 | -23 % | 21400 | 1,72435 | 0,066930 | 11 |
| 5.....159 | Manaut - Iber | (80) | 16 | 171 | 1,280 | 0,573 | 0,097 | 2736 | 2103 | -23 % | 21400 | 1,83187 | 0,071392 | 11 |
| 5.....159 | Manaut - Iber | (80) | 18 | 171 | 1,440 | 0,573 | 0,097 | 3078 | 2361 | -23 % | 21400 | 2,04691 | 0,080316 | 11 |
| 5.....159 | Manaut - Iber | (80) | 19 | 171 | 1,520 | 0,573 | 0,097 | 3249 | 2491 | -23 % | 21400 | 2,15443 | 0,084778 | 11 |
| 5.....159 | Manaut - Iber | (80) | 20 | 171 | 1,600 | 0,573 | 0,097 | 3420 | 2620 | -23 % | 21400 | 2,26195 | 0,089240 | 11 |
| 5.....159 | Manaut - Iber | (80) | 21 | 171 | 1,680 | 0,573 | 0,097 | 3591 | 2749 | -23 % | 21400 | 2,36947 | 0,093702 | 11 |
| 5.....159 | Manaut - Iber | (80) | 22 | 171 | 1,760 | 0,573 | 0,097 | 3762 | 2878 | -23 % | 21400 | 2,47699 | 0,098164 | 11 |
| 5.....159 | Manaut - Iber | (80) | 23 | 171 | 1,840 | 0,573 | 0,097 | 3933 | 3008 | -24 % | 21400 | 2,58451 | 0,102626 | 11 |
| 5.....159 | Manaut - Iber | (80) | 24 | 171 | 1,920 | 0,573 | 0,097 | 4104 | 3137 | -24 % | 21400 | 2,69203 | 0,107088 | 11 |
| 5.....159 | Manaut - Iber | (80) | 25 | 171 | 2,000 | 0,573 | 0,097 | 4275 | 3266 | -24 % | 21400 | 2,79955 | 0,111550 | 11 |
| 5.....159 | Manaut - Iber | (80) | 26 | 171 | 2,080 | 0,573 | 0,097 | 4446 | 3395 | -24 % | 21400 | 2,90707 | 0,116012 | 11 |
| 5.....159 | Manaut - Iber | (80) | 27 | 171 | 2,160 | 0,573 | 0,097 | 4617 | 3525 | -24 % | 21400 | 3,01459 | 0,120474 | 11 |
| 5.....159 | Manaut - Iber | (80) | 29 | 171 | 2,320 | 0,573 | 0,097 | 4959 | 3783 | -24 % | 21400 | 3,22963 | 0,129398 | 11 |
| 5.....159 | Manaut - Iber | (80) | 30 | 171 | 2,400 | 0,573 | 0,097 | 5130 | 3912 | -24 % | | | | |

| 5.....833 | Cimin - Roby (80) | 1 | 241 | 0,080 | 0,654 | 0,092 | 241 | 178 | -26 % | 21400 | 0,23970 | 0,004813 | 11 |
|-----------|-------------------|----|-----|-------|-------|-------|------|------|-------|-------|---------|----------|----|
| 5.....833 | Cimin - Roby (80) | 2 | 241 | 0,160 | 0,654 | 0,092 | 482 | 319 | -34 % | 21400 | 0,35906 | 0,009627 | 11 |
| 5.....833 | Cimin - Roby (80) | 3 | 241 | 0,240 | 0,654 | 0,092 | 723 | 459 | -36 % | 21400 | 0,47842 | 0,014440 | 11 |
| 5.....833 | Cimin - Roby (80) | 4 | 241 | 0,320 | 0,654 | 0,092 | 964 | 600 | -38 % | 21400 | 0,59778 | 0,019254 | 11 |
| 5.....833 | Cimin - Roby (80) | 5 | 241 | 0,400 | 0,654 | 0,092 | 1205 | 740 | -39 % | 21400 | 0,71714 | 0,024067 | 11 |
| 5.....833 | Cimin - Roby (80) | 6 | 241 | 0,480 | 0,654 | 0,092 | 1446 | 881 | -39 % | 21400 | 0,83650 | 0,028881 | 11 |
| 5.....833 | Cimin - Roby (80) | 7 | 241 | 0,560 | 0,654 | 0,092 | 1687 | 1021 | -39 % | 21400 | 0,95586 | 0,033694 | 11 |
| 5.....833 | Cimin - Roby (80) | 8 | 241 | 0,640 | 0,654 | 0,092 | 1928 | 1162 | -40 % | 21400 | 1,07522 | 0,038508 | 11 |
| 5.....833 | Cimin - Roby (80) | 9 | 241 | 0,720 | 0,654 | 0,092 | 2169 | 1302 | -40 % | 21400 | 1,19458 | 0,043321 | 11 |
| 5.....833 | Cimin - Roby (80) | 10 | 241 | 0,800 | 0,654 | 0,092 | 2410 | 1443 | -40 % | 21400 | 1,31394 | 0,048134 | 11 |
| 5.....833 | Cimin - Roby (80) | 11 | 241 | 0,880 | 0,654 | 0,092 | 2651 | 1583 | -40 % | 21400 | 1,43330 | 0,052948 | 11 |
| 5.....833 | Cimin - Roby (80) | 12 | 241 | 0,960 | 0,654 | 0,092 | 2892 | 1724 | -40 % | 21400 | 1,55266 | 0,057761 | 11 |
| 5.....833 | Cimin - Roby (80) | 13 | 241 | 1,040 | 0,654 | 0,092 | 3133 | 1864 | -41 % | 21400 | 1,67202 | 0,062575 | 11 |
| 5.....833 | Cimin - Roby (80) | 14 | 241 | 1,120 | 0,654 | 0,092 | 3374 | 2005 | -41 % | 21400 | 1,79138 | 0,067388 | 11 |
| 5.....833 | Cimin - Roby (80) | 15 | 241 | 1,200 | 0,654 | 0,092 | 3615 | 2145 | -41 % | 21400 | 1,91074 | 0,072202 | 11 |
| 5.....833 | Cimin - Roby (80) | 16 | 241 | 1,280 | 0,654 | 0,092 | 3856 | 2286 | -41 % | 21400 | 2,03010 | 0,077015 | 11 |
| 5.....833 | Cimin - Roby (80) | 17 | 241 | 1,360 | 0,654 | 0,092 | 4097 | 2426 | -41 % | 21400 | 2,14946 | 0,081828 | 11 |
| 5.....833 | Cimin - Roby (80) | 18 | 241 | 1,440 | 0,654 | 0,092 | 4338 | 2567 | -41 % | 21400 | 2,26882 | 0,086642 | 11 |
| 5.....833 | Cimin - Roby (80) | 19 | 241 | 1,520 | 0,654 | 0,092 | 4579 | 2707 | -41 % | 21400 | 2,38818 | 0,091455 | 11 |
| 5.....833 | Cimin - Roby (80) | 20 | 241 | 1,600 | 0,654 | 0,092 | 4820 | 2848 | -41 % | 21400 | 2,50754 | 0,096269 | 11 |
| 5.....833 | Cimin - Roby (80) | 21 | 241 | 1,680 | 0,654 | 0,092 | 5061 | 2988 | -41 % | 21400 | 2,62690 | 0,101082 | 11 |
| 5.....833 | Cimin - Roby (80) | 22 | 241 | 1,760 | 0,654 | 0,092 | 5302 | 3128 | -41 % | 21400 | 2,74626 | 0,105896 | 11 |
| 5.....833 | Cimin - Roby (80) | 23 | 241 | 1,840 | 0,654 | 0,092 | 5543 | 3269 | -41 % | 21400 | 2,86562 | 0,110709 | 11 |
| 5.....833 | Cimin - Roby (80) | 24 | 241 | 1,920 | 0,654 | 0,092 | 5784 | 3409 | -41 % | 21400 | 2,98498 | 0,115523 | 11 |
| 5.....833 | Cimin - Roby (80) | 25 | 241 | 2,000 | 0,654 | 0,092 | 6025 | 3550 | -41 % | 21400 | 3,10434 | 0,120326 | 11 |
| 5.....833 | Cimin - Roby (80) | 26 | 241 | 2,080 | 0,654 | 0,092 | 6266 | 3690 | -41 % | 21400 | 3,22370 | 0,125149 | 11 |
| 5.....833 | Cimin - Roby (80) | 27 | 241 | 2,160 | 0,654 | 0,092 | 6507 | 3831 | -41 % | 21400 | 3,34306 | 0,129963 | 11 |
| 5.....833 | Cimin - Roby (80) | 28 | 241 | 2,240 | 0,654 | 0,092 | 6748 | 3971 | -41 % | 21400 | 3,46242 | 0,134776 | 11 |
| 5.....833 | Cimin - Roby (80) | 29 | 241 | 2,320 | 0,654 | 0,092 | 6989 | 4112 | -41 % | 21400 | 3,58178 | 0,139590 | 11 |
| 5.....833 | Cimin - Roby (80) | 30 | 241 | 2,400 | 0,654 | 0,092 | 7230 | 4252 | -41 % | 21400 | 3,70114 | 0,144403 | 11 |
| 5.....833 | Cimin - Roby (80) | 31 | 241 | 2,480 | 0,654 | 0,092 | 7471 | 4393 | -41 % | 21400 | 3,82050 | 0,149217 | 11 |
| 5.....833 | Cimin - Roby (80) | 32 | 241 | 2,560 | 0,654 | 0,092 | 7712 | 4533 | -41 % | 21400 | 3,93986 | 0,154030 | 11 |

3.12 Comparative values for radiators of type 12 according to UNI 10200

| 2 | 3 | 4 | 5 | KQ/elemt | | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | |
|---------|-------------------|---------------|-----|------------|---------------|-------|-------|----------|--------|--------|-------|-----------|------|-----------|----------|-----------------|-------------|------------|
| | | | | Producer | Model | num | elemt | 90/70/2* | length | height | depth | 90/70/20* | KQ | UNI 10200 | 90/70/2* | coefficient (k) | surface (S) | volume (V) |
| C..MID | | | | HM - Thema | Vertikal Plan | GP | | 0,500 | 2,000 | 0,078 | | 1701 | 2334 | 37 % | 20300 | 2,39000 | 0,078000 | 12 |
| 1...743 | HM - Thema | Vertikal Plan | | GP | | 0,600 | | 2,000 | 0,078 | | | 2041 | 2781 | 36 % | 20300 | 2,80560 | 0,093600 | 12 |
| 1...743 | HM - Thema | Vertikal Plan | | GP | | 0,750 | | 2,000 | 0,078 | | | 2551 | 3452 | 35 % | 20300 | 3,42900 | 0,117000 | 12 |
| 1...743 | HM - Thema | Vertikal Plan | | GP | | 0,900 | | 2,000 | 0,078 | | | 3061 | 4123 | 35 % | 20300 | 4,05240 | 0,140400 | 12 |
| 1...743 | HM - Thema | Vertikal Plan | | GP | | 1,000 | | 2,000 | 0,078 | | | 3402 | 4570 | 34 % | 20300 | 4,46800 | 0,156000 | 12 |
| 1...468 | DemirDöküm | | P | | | 0,400 | 0,600 | 0,012 | | | | 298 | 217 | -27 % | 20300 | 0,50400 | 0,002880 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,400 | 0,600 | 0,015 | | | | 342 | 233 | -32 % | 20300 | 0,51000 | 0,003600 | 12 |
| 1...468 | DemirDöküm | | P | | | 0,500 | 0,600 | 0,012 | | | | 372 | 270 | -27 % | 20300 | 0,62640 | 0,003600 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,500 | 0,600 | 0,015 | | | | 428 | 290 | -32 % | 20300 | 0,63300 | 0,004500 | 12 |
| 1...468 | DemirDöküm | | P | | | 0,600 | 0,600 | 0,012 | | | | 447 | 323 | -28 % | 20300 | 0,74880 | 0,004320 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,400 | 0,900 | 0,015 | | | | 478 | 348 | -27 % | 20300 | 0,75900 | 0,005400 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,600 | 0,600 | 0,015 | | | | 513 | 347 | -32 % | 20300 | 0,75600 | 0,005400 | 12 |
| 1...468 | DemirDöküm | | P | | | 0,700 | 0,600 | 0,012 | | | | 521 | 376 | -28 % | 20300 | 0,87120 | 0,005040 | 12 |
| 1...468 | DemirDöküm | | P | | | 0,800 | 0,600 | 0,012 | | | | 596 | 429 | -28 % | 20300 | 0,99360 | 0,005760 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,500 | 0,900 | 0,015 | | | | 598 | 433 | -28 % | 20300 | 0,94200 | 0,006750 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,600 | 0,900 | 0,015 | | | | 607,5 | 442 | -27 % | 20300 | 0,94320 | 0,007200 | 12 |
| 1...43 | Supera-Flachheizk | | P | | | 0,750 | 0,600 | 0,016 | | | | 717 | 518 | -28 % | 20300 | 1,12500 | 0,008100 | 12 |
| 1...205 | Supera-Flachheizk | | P | | | 0,900 | 0,600 | 0,016 | | | | 729,0 | 530 | -27 % | 20300 | 1,12800 | 0,008640 | 12 |
| 1...468 | DemirDöküm | | P | | | 1,000 | 0,600 | 0,012 | | | | 745 | 535 | -28 % | 20300 | 1,23840 | 0,007200 | 12 |
| 1...468 | DemirDöküm | | P | | | 1,200 | 0,600 | 0,012 | | | | 894 | 641 | -28 % | 20300 | 1,48320 | 0,008640 | 12 |
| 1...43 | DaNorm - Da Plus | | P | | | 0,800 | 0,900 | 0,015 | | | | 956 | 687 | -28 % | 20300 | 1,49100 | 0,010800 | 12 |
| 1...43 | Supera-Flachheizk | | P | | | 1,200 | 0,600 | 0,016 | | | | 972,0 | 704 | -28 % | 20300 | 1,49760 | 0,011520 | 12 |
| 1...735 | Chappee | | P | | | 0,400 | 2,000 | 0,015 | | | | 1091 | 769 | -30 % | 20300 | 1,67200 | 0,012000 | 12 |
| 1...205 | Supera-Flachheizk | | P | | | 1,350 | 0,600 | 0,016 | | | | 1093,5 | 791 | -28 % | 20300 | 1,68240 | 0,012960 | 12 |
| 1...735 | Chappee | | P | | | 0,400 | 2,200 | 0,015 | | | | 1207 | 845 | -30 % | 20300 | 1,83800 | 0,013200 | 12 |
| 1...205 | Supera-Flachheizk | | P | | | 1,500 | 0,600 | 0,016 | | | | 1215,0 | 879 | -28 % | 20300 | 1,86720 | 0,014400 | 12 |
| 1...205 | Supera-Flachheizk | | P | | | 1,650 | 0,600 | 0,016 | | | | 1336,5 | 966 | -28 % | 20300 | 2,05200 | 0,015840 | 12 |
| 1...205 | Supera-Flachheizk | | P | | | 1,800 | 0,600 | 0,016 | | | | 1458,0 | 1053 | -28 % | 20300 | 2,23680 | 0,017280 | 12 |
| 1...205 | Supera-Flachheizk | | P | | | 1,950 | 0,600 | 0,016 | | | | 1579,5 | 1140 | -28 % | 20300 | 2,42160 | 0,018720 | 12 |
| 1...735 | Chappee | | P | | | 0,600 | 2,000 | 0,015 | | | | 1637 | 1143 | -30 % | 20300 | 2,47800 | 0,018000 | 12 |
| 1...735 | Chappee | | P | | | 0,600 | 2,200 | 0,015 | | | | 1811 | 1257 | -31 % | 20300 | 2,72400 | 0,019800 | 12 |
| 1...735 | Chappee | | P | | | 0,720 | 2,000 | 0,015 | | | | 1964 | 1368 | -30 % | 20300 | 2,96160 | 0,021600 | 12 |
| 1...735 | Chappee | | P | | | 0,720 | 2,200 | 0,015 | | | | 2173 | 1505 | -31 % | 20300 | 3,25560 | 0,023760 | 12 |
| 1...735 | Chappee | | P | | | 0,800 | 2,000 | 0,015 | | | | 2183 | 1518 | -30 % | 20300 | 3,28400 | 0,024000 | 12 |
| 1...735 | Chappee | | P | | | 0,800 | 2,200 | 0,015 | | | | 2415 | 1669 | -31 % | 20300 | 3,61000 | 0,026400 | 12 |
| 1...94 | Dura - Thermodem | | PPC | | | 0,600 | 0,600 | 0,109 | | </ | | | | | | | | |

3.13 Comparative values for radiators of type 13 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|-----------|--------------------|-------|-------|---------|---------------|---------------|--------------|----------|-----------------|------|-------|---------|----------|----|
| C..MID | Producer | Model | num. | KQ/elem | length (l) | height (h) | depth (p) | KQ | KQ UNI 10200 | | | | | |
| | | | | 90/70/2 | | | | 90/70/20 | 90/70/2 | | | | | |
| 1.....468 | DemirDöküm | PKC | 0,400 | 0,600 | 0,060 | | | 433 | 528 | 22 % | 23500 | 0,60000 | 0,014400 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,500 | 0,600 | 0,060 | | | 541 | 655 | 21 % | 23600 | 0,73200 | 0,018000 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,400 | 0,900 | 0,060 | | | 608 | 785 | 29 % | 23600 | 0,87600 | 0,021600 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,600 | 0,600 | 0,060 | | | 649 | 781 | 20 % | 23600 | 0,86400 | 0,021600 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,700 | 0,600 | 0,060 | | | 758 | 907 | 20 % | 23600 | 0,99600 | 0,025200 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,500 | 0,900 | 0,060 | | | 760 | 973 | 28 % | 23600 | 1,06800 | 0,027000 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,800 | 0,600 | 0,060 | | | 866 | 1034 | 19 % | 23600 | 1,12800 | 0,028800 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 0,750 | 0,600 | 0,072 | | | 887,25 | 1108 | 25 % | 23600 | 1,09440 | 0,032400 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,600 | 0,900 | 0,060 | | | 912 | 1160 | 27 % | 23600 | 1,26000 | 0,032400 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,900 | 0,600 | 0,060 | | | 974 | 1160 | 19 % | 23600 | 1,26000 | 0,032400 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,700 | 0,900 | 0,060 | | | 1064 | 1348 | 27 % | 23600 | 1,45200 | 0,037800 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 0,900 | 0,600 | 0,072 | | | 1064,70 | 1325 | 24 % | 23600 | 1,29600 | 0,038880 | 13 |
| 1.....468 | DemirDöküm | PKC | 1,000 | 0,600 | 0,060 | | | 1083 | 1287 | 19 % | 23600 | 1,39200 | 0,036000 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,800 | 0,900 | 0,060 | | | 1216 | 1536 | 26 % | 23600 | 1,64400 | 0,043200 | 13 |
| 1.....468 | DemirDöküm | PKC | 0,900 | 0,900 | 0,060 | | | 1368 | 1723 | 26 % | 23600 | 1,83600 | 0,048600 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 1,200 | 0,600 | 0,072 | | | 1419,60 | 1757 | 24 % | 23600 | 1,69920 | 0,051840 | 13 |
| 1.....468 | DemirDöküm | PKC | 1,000 | 0,900 | 0,060 | | | 1520 | 1911 | 26 % | 23600 | 2,02800 | 0,054000 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 1,350 | 0,600 | 0,072 | | | 1597,05 | 1973 | 24 % | 23600 | 1,90080 | 0,058320 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 1,500 | 0,600 | 0,072 | | | 1774,50 | 2189 | 23 % | 23600 | 2,10240 | 0,064800 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 1,650 | 0,600 | 0,072 | | | 1951,95 | 2406 | 23 % | 23600 | 2,30400 | 0,071280 | 13 |
| 1.....205 | Superia-Flachheizk | PKC | 1,800 | 0,600 | 0,072 | | | 2129,40 | 2622 | 23 % | 23600 | 2,50560 | 0,077760 | 13 |

3.14 Comparative values for radiators of type 14 according to UNI 10200

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
|-----------|---------------------|---------|-------|---------|---------------|---------------|--------------|----------|-----------------|-------|-------|---------|----------|----|
| C..MID | Producer | Model | num. | KQ/elem | length (l) | height (h) | depth (p) | KQ | KQ UNI 10200 | | | | | |
| | | | | 90/70/2 | | | | 90/70/20 | 90/70/2 | | | | | |
| 1.....270 | Brötje Typ 22 | PKKP | 0,720 | 0,600 | 0,090 | | | 1455 | 1221 | -16 % | 22500 | 1,10160 | 0,038880 | 14 |
| 1.....270 | Brötje Typ 22 | PKKP | 0,840 | 0,600 | 0,090 | | | 1698 | 1419 | -16 % | 22500 | 1,26720 | 0,045360 | 14 |
| 1.....270 | Brötje Typ 22 | PKKP | 0,960 | 0,600 | 0,090 | | | 1940 | 1616 | -17 % | 22500 | 1,43280 | 0,051840 | 14 |
| 1.....270 | Brötje Typ 22 | PKKP | 1,200 | 0,600 | 0,090 | | | 2426 | 2012 | -17 % | 22500 | 1,76400 | 0,064800 | 14 |
| 1.....270 | Brötje Typ | PKPKPK | 1,080 | 0,600 | 0,147 | | | 3084 | 2705 | -12 % | 22500 | 1,78992 | 0,095256 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,400 | 0,600 | 0,154 | | | 1403 | 1079 | -23 % | 22500 | 0,78800 | 0,036960 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,520 | 0,600 | 0,154 | | | 1824 | 1385 | -24 % | 22500 | 0,96896 | 0,048048 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,400 | 1,000 | 0,154 | | | 2000 | 1773 | -11 % | 22500 | 1,23120 | 0,061600 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,600 | 0,600 | 0,154 | | | 2105 | 1590 | -24 % | 22500 | 1,08960 | 0,055440 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,720 | 0,600 | 0,154 | | | 2526 | 1896 | -25 % | 22500 | 1,27056 | 0,066528 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,520 | 1,000 | 0,154 | | | 2601 | 2275 | -13 % | 22500 | 1,50816 | 0,080890 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,800 | 0,600 | 0,154 | | | 2806 | 2100 | -25 % | 22500 | 1,39120 | 0,073920 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,600 | 1,000 | 0,154 | | | 3001 | 2611 | -13 % | 22500 | 1,69280 | 0,092400 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,920 | 0,600 | 0,154 | | | 3227 | 2406 | -25 % | 22500 | 1,57216 | 0,085008 | 14 |
| 1.....277 | V&N | PKKPKPC | 1,000 | 0,600 | 0,154 | | | 3508 | 2611 | -26 % | 22500 | 1,69280 | 0,092400 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,720 | 1,000 | 0,154 | | | 3601 | 3113 | -14 % | 22500 | 1,96976 | 0,110880 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,800 | 1,000 | 0,154 | | | 4001 | 3448 | -14 % | 22500 | 2,15440 | 0,123200 | 14 |
| 1.....277 | V&N | PKKPKPC | 1,200 | 0,600 | 0,154 | | | 4210 | 3121 | -26 % | 22500 | 1,99440 | 0,110880 | 14 |
| 1.....277 | V&N | PKKPKPC | 0,920 | 1,000 | 0,154 | | | 4601 | 3951 | -14 % | 22500 | 2,43136 | 0,141680 | 14 |
| 1.....277 | V&N | PKKPKPC | 1,400 | 0,600 | 0,154 | | | 4911 | 3632 | -26 % | 22500 | 2,29600 | 0,129360 | 14 |
| 1.....277 | V&N | PKKPKPC | 1,000 | 1,000 | 0,154 | | | 5001 | 4286 | -14 % | 22500 | 2,61600 | 0,154000 | 14 |
| 1.....277 | V&N | PKKPKPC | 1,200 | 1,000 | 0,154 | | | 6001 | 5124 | -15 % | 22500 | 3,07760 | 0,184800 | 14 |
| 1.....277 | V&N | PKKPKPC | 1,400 | 1,000 | 0,154 | | | 7001 | 5962 | -15 % | 22500 | 3,53920 | 0,215600 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,440 | 0,600 | 0,070 | | | 891 | 627 | -30 % | 22500 | 0,67360 | 0,018480 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 1,080 | 0,300 | 0,064 | | | 936 | 725 | -22 % | 22500 | 0,82464 | 0,020736 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,520 | 0,600 | 0,070 | | | 1053 | 737 | -30 % | 22500 | 0,78080 | 0,021840 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,560 | 0,600 | 0,070 | | | 1134 | 791 | -30 % | 22500 | 0,83440 | 0,023520 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,600 | 0,600 | 0,070 | | | 1215 | 846 | -30 % | 22500 | 0,88800 | 0,025200 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 0,720 | 0,600 | 0,064 | | | 1232 | 946 | -23 % | 22500 | 1,03296 | 0,027648 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,640 | 0,600 | 0,070 | | | 1296 | 900 | -31 % | 22500 | 0,94160 | 0,026880 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,680 | 0,600 | 0,070 | | | 1377 | 955 | -31 % | 22500 | 0,99520 | 0,028560 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 0,840 | 0,600 | 0,064 | | | 1438 | 1100 | -23 % | 22500 | 1,19232 | 0,032256 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,720 | 0,600 | 0,070 | | | 1458 | 1010 | -31 % | 22500 | 1,04880 | 0,030240 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 0,760 | 0,600 | 0,070 | | | 1539 | 1064 | -31 % | 22500 | 1,10240 | 0,031920 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 0,960 | 0,600 | 0,064 | | | 1643 | 1254 | -24 % | 22500 | 1,35168 | 0,036864 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 1,200 | 0,600 | 0,064 | | | 2054 | 1561 | -24 % | 22500 | 1,67040 | 0,046080 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 1,320 | 0,600 | 0,064 | | | 2259 | 1715 | -24 % | 22500 | 1,82976 | 0,050688 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 1,080 | 0,800 | 0,064 | | | 2374 | 1862 | -22 % | 22500 | 1,96864 | 0,055296 | 14 |
| 1.....577 | ELBA - Flachheizk | PKPC | 1,440 | 0,600 | 0,064 | | | 2465 | 1869 | -24 % | 22500 | 1,98912 | 0,055296 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,600 | 0,600 | 0,070 | | | 5267 | 3577 | -32 % | 22500 | 3,56800 | 0,109200 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,640 | 0,600 | 0,070 | | | 5348 | 3632 | -32 % | 22500 | 3,62160 | 0,110880 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,680 | 0,600 | 0,070 | | | 5429 | 3687 | -32 % | 22500 | 3,67520 | 0,112560 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,720 | 0,600 | 0,070 | | | 5510 | 3741 | -32 % | 22500 | 3,72880 | 0,114240 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,760 | 0,600 | 0,070 | | | 5591 | 3796 | -32 % | 22500 | 3,78240 | 0,115920 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,800 | 0,600 | 0,070 | | | 5672 | 3851 | -32 % | 22500 | 3,83600 | 0,117600 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,840 | 0,600 | 0,070 | | | 5753 | 3905 | -32 % | 22500 | 3,88960 | 0,119280 | 14 |
| 1.....641 | Sanica - Flachheizk | PKPC | 2,880 | 0,600 | 0,070 | | | | | | | | | |