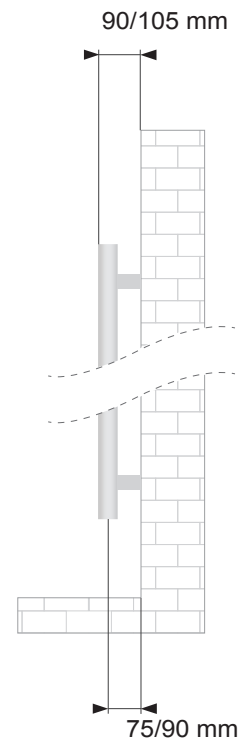




|   | straight                                     |
|---|--|
| Material                                  | carbon steel                                 |
| Pipes - mm                                | 20x20x1                                      |
| Collectors - mm                           | 30x30x1,5                                    |
| Connections                               | 4x1/2' *                                     |
| Wall fixings                              | 3  |
| Max pressure                              | 6 bar  |
| Max temperature                           | 120 °C                                       |
| Paint                                     | epoxypolyester powder                        |
| Packaging                                 | P.P. corners + cardboard box and protections |
| * air bleeding valve connection, included |  |

**Standard equipment:** 1 kit wall fixing brackets - 1 air bleeding valve - 1 blind plug



The radiators can be supplied in RAL colours or special VOV Lazzarini colours.  
Printed colours may differ from the original, so please see official RAL palette and Lazzarini colour chart.



**VOV08**  
Tabak brown



**VOV09**  
White



**VOV11**  
Silver grey



**VOV12**  
Anthracite



**VOV13**  
Amethyst



**VOV15**  
Quartz



**VOV16**  
Azurite

## White RAL 9016 - straight

| code   | h mm | width mm | interaxis mm | weight kg | water lt | $\Delta T 50^{\circ}C$<br>watt $\phi$<br>75/65/20° | $\Delta T 42,5^{\circ}C$<br>watt $\phi$<br>70/55/20° | $\Delta T 30^{\circ}C$<br>watt $\phi$<br>55/45/20° | $\Delta T 50^{\circ}C$<br>kcal/h | $\Delta T 60^{\circ}C$<br>btu | heating<br>element<br>wattt | $\Delta T 50^{\circ}C$<br>exponent n |
|--------|------|----------|--------------|-----------|----------|--|--|--|----------------------------------|-------------------------------|-----------------------------|--------------------------------------|
| 386538 | 690  | 500      | 470          | 5,5       | 3,1      | 320  | 263  | 173  | 276                              | 1365                          | 300                         | 1,21196                              |
| 386540 | 1110 | 500      | 470          | 8,7       | 4,8      | 506  | 414  | 268  | 436                              | 2171                          | 600                         | 1,24957                              |
| 386541 | 1110 | 600      | 570          | 11,0      | 5,5      | 602  | 493  | 320  | 518                              | 2577                          | 700                         | 1,23968                              |
| 386542 | 1420 | 500      | 470          | 11,1      | 6,4      | 672  | 548  | 354  | 578                              | 2887                          | 700                         | 1,25819                              |
| 386543 | 1420 | 600      | 570          | 14,3      | 6,9      | 780  | 636  | 410  | 671                              | 3351                          | 700                         | 1,26097                              |
| 386544 | 1703 | 500      | 470          | 14,2      | 7,5      | 797  | 651  | 421  | 686                              | 3419                          | 700                         | 1,2518                               |
| 386545 | 1703 | 600      | 570          | 17,4      | 8,5      | 937  | 765  | 494  | 806                              | 4023                          | 1000                        | 1,25564                              |

## Anthracite VOV12 - straight

| code   | h mm | width mm | interaxis mm | weight kg | water lt | $\Delta T 50^{\circ}C$<br>watt $\phi$<br>75/65/20° | $\Delta T 42,5^{\circ}C$<br>watt $\phi$<br>70/55/20° | $\Delta T 30^{\circ}C$<br>watt $\phi$<br>55/45/20° | $\Delta T 50^{\circ}C$<br>kcal/h | $\Delta T 60^{\circ}C$<br>btu | heating<br>element<br>wattt | $\Delta T 50^{\circ}C$<br>exponent n |
|--------|------|----------|--------------|-----------|----------|--|--|--|----------------------------------|-------------------------------|-----------------------------|--------------------------------------|
| 383411 | 1110 | 500      | 470          | 8,7       | 4,8      | 506  | 414  | 268  | 436                              | 2171                          | 600                         | 1,24957                              |
| 384877 | 1420 | 500      | 470          | 11,1      | 6,4      | 672  | 548  | 354  | 578                              | 2887                          | 700                         | 1,25819                              |

## Chrome - straight

| code   | h mm | width mm | interaxis mm | weight kg | water lt | $\Delta T 50^{\circ}C$<br>watt $\phi$<br>75/65/20° | $\Delta T 42,5^{\circ}C$<br>watt $\phi$<br>70/55/20° | $\Delta T 30^{\circ}C$<br>watt $\phi$<br>55/45/20° | $\Delta T 50^{\circ}C$<br>kcal/h | $\Delta T 60^{\circ}C$<br>btu | heating<br>element<br>wattt | $\Delta T 50^{\circ}C$<br>exponent n |
|--------|------|----------|--------------|-----------|----------|--|--|--|----------------------------------|-------------------------------|-----------------------------|--------------------------------------|
| 386546 | 690  | 500      | 470          | 5,5       | 3,1      | 224  | 182  | 117  | 193                              | 966                           | 200                         | 1,27858                              |
| 386548 | 1110 | 500      | 470          | 8,6       | 4,8      | 323  | 263  | 170  | 278                              | 1389                          | 300                         | 1,26703                              |
| 386549 | 1110 | 600      | 570          | 11,2      | 5,5      | 394  | 320  | 205  | 339                              | 1700                          | 300                         | 1,28034                              |
| 386550 | 1420 | 500      | 470          | 11,5      | 6,4      | 430  | 349  | 222  | 370                              | 1860                          | 500                         | 1,29691                              |
| 386551 | 1420 | 600      | 570          | 14,3      | 6,9      | 517  | 420  | 269  | 445                              | 2232                          | 500                         | 1,28378                              |
| 386552 | 1703 | 500      | 470          | 13,3      | 7,5      | 531  | 432  | 276  | 457                              | 2290                          | 500                         | 1,28229                              |
| 386553 | 1703 | 600      | 570          | 17,4      | 8,5      | 637  | 518  | 331  | 548                              | 2751                          | 700                         | 1,28416                              |

Our radiators are tested in qualified laboratories according to EN-442 regulations which determine the output value by fixing the  $\Delta T$  at  $50^{\circ}C$ .  $\Delta T$  is the difference between the average temperature of the water inside the radiator and the room temperature. The formula is:  $((T_1+T_2)/2)-T_3$ .

Ex.:  $((75+65/2)-20)=50^{\circ}C$ . For output values with a different  $\Delta T$  use the following formula:  $\phi_x = \phi_{\Delta T 50} * (\Delta T_x / 50)^n$ .

See calculation example of the output at  $\Delta T 60^{\circ}$  of article 386546:  $224 * (60/50)^{1,27858} = 283$ .

Output values in kcal/h = watt x 0,85984. Output values in btu = watt x 3,412.

### LEGEND

$T_1$  = supply temperature -  $T_2$  = return temperature -  $T_3$  = room temperature.

$\phi_x$  = output to be calculated -  $\phi_{\Delta T 50}$  = output at  $\Delta T 50^{\circ}C$  (table) -  $\Delta T_x$  =  $\Delta T$  value to be calculated -  $n$  = exponent "n" (table).