



## TEMPO DE-PIE





# TEMPO DE-PIE

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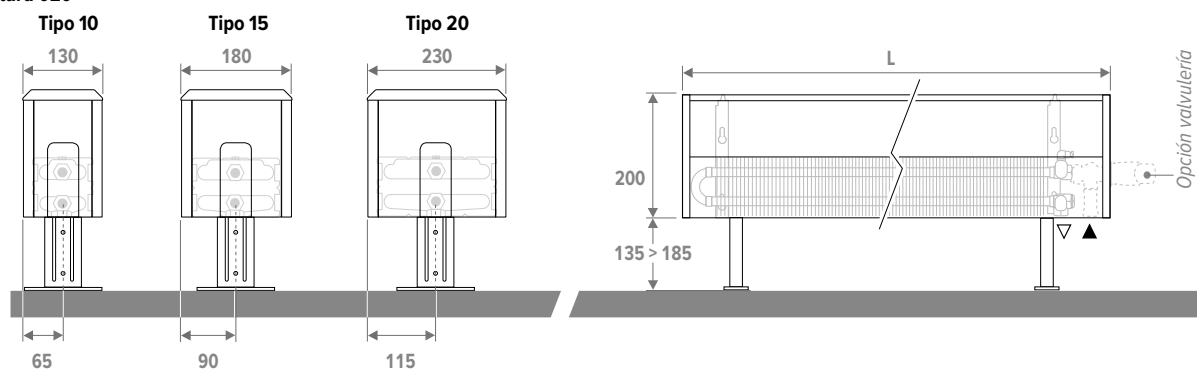
# TEMPO DE-PIE

EN 442

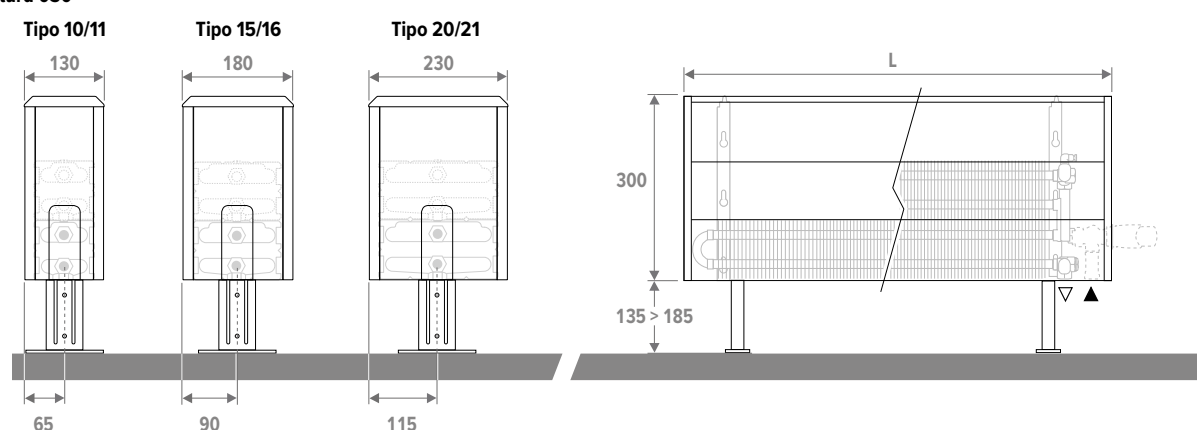
GARANTÍA 30 AÑOS  
INTERCAMBIADOR DE CALOR

DIMENSIONES (en mm)

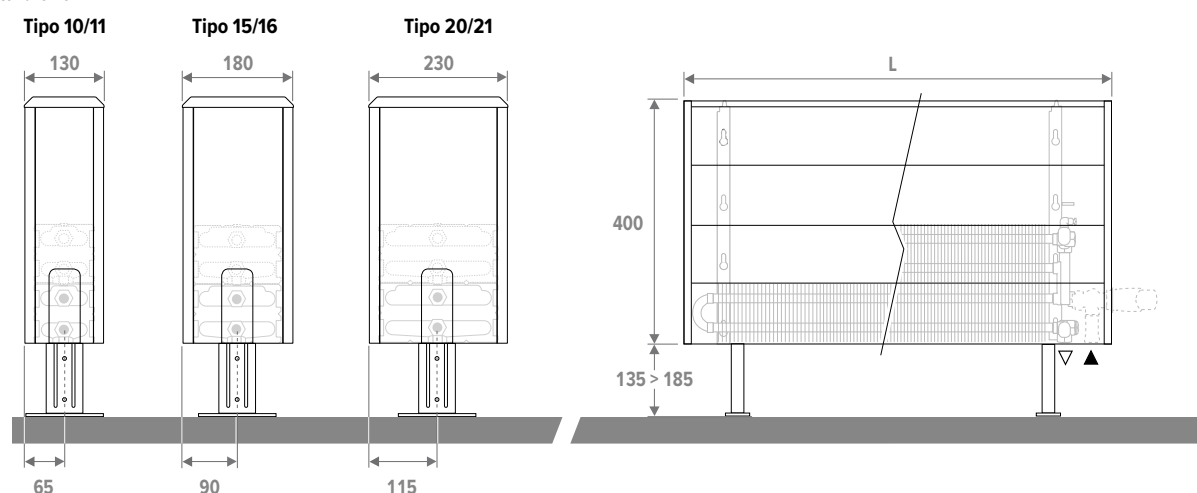
## Altura 020



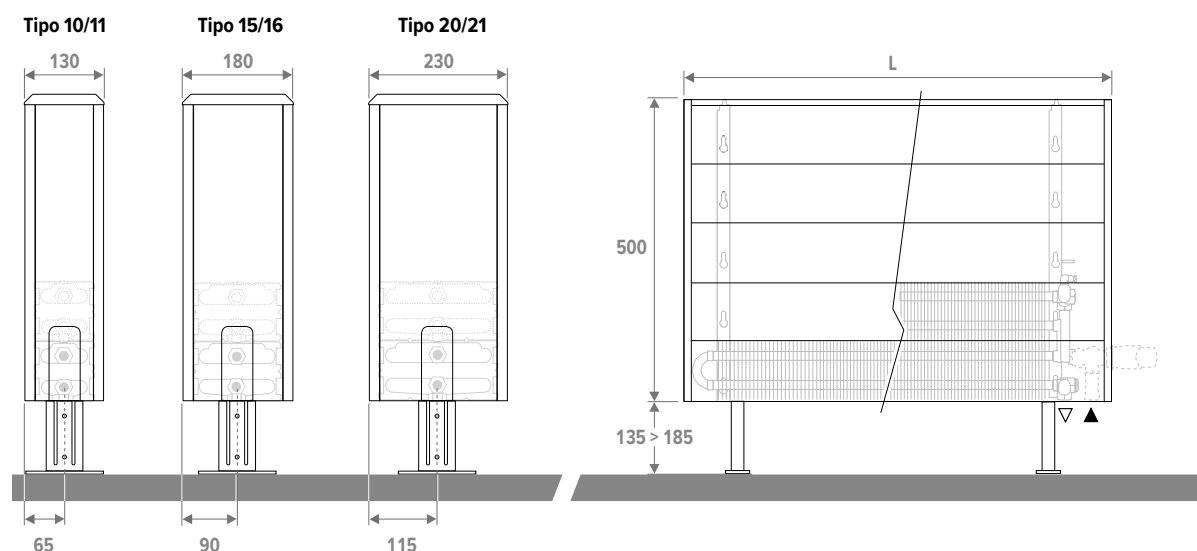
## Altura 030



## Altura 040



## Altura 050



# TEMPO DE-PIE

## SUMINISTRO ESTÁNDAR

- Intercambiador de calor Low-H<sub>2</sub>O, lacado en gris grafito (RAL 7024) antiestático repelente al polvo
- pies ajustables de serie en gris neutro
- purgador acodado (tipo estándar y altura 020) o purgador extendido (tipo twin) 1/8" y tapón de vaciado 1/2"
- carcasa de fácil montaje con un lateral cerrado y otro abierto para la conexión, intercambiable a izquierda o derecha

## COLORES ESTÁNDAR

Respetuoso con el medio ambiente, lacado con polvo resistente al rayado y con alta resistencia a los UV Blanco RAL (9010) 101

## OPCIONES

### Pies en el mismo color que la carcasa

Los pies también están disponibles en el mismo color que la carcasa. Para pedirlo repite el código del color después del código del radiador..

ej.: TEMF HHH LLL TT 101 AS **101**

Coste adicional en función de la longitud del equipo:

- Longitud 040 > 120: 2 pies
- Longitud 140 > 220: 3 pies
- Longitud 240 > 300: 4 pies

### Pies ajustables largos

- Para pies ajustables largos en gris neutro, con una altura de 25.5 a 29 cm, añadir AL al código de pedido.

ej.: TEMF 020 040 10 101 **AL**

- Para pies ajustables largos en el mismo color que la carcasa, con altura de 25.5 a 29 cm, añadir AL al código de pedido y repetir el código del color.

ej.: TEMF 020 040 10 101 **AL** 101

Coste adicional en función de la longitud del equipo:

- Longitud 040 > 120: 2 pies
- Longitud 140 > 220: 3 pies
- Longitud 240 > 300: 4 pies

## CÓDIGO PEDIDO

TEMF 020 050 10 101 AS

Pie  
Tipo  
Longitud  
Altura

## ESTÁNDAR: CONEXIÓN IZQUIERDA O DERECHA CON CONTROL EN LA PARTE INFERIOR

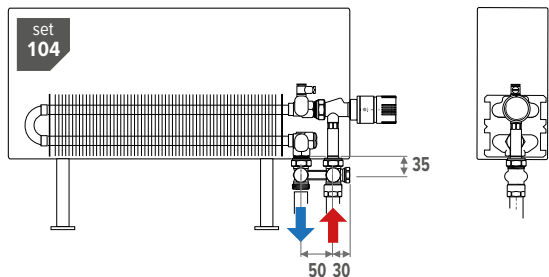
A la izquierda o a la derecha, a la pared o al suelo. Conexión a la pared a través de la parte inferior de la carcasa, o completamente oculta dentro de la carcasa.

El instalador puede girar el intercambiador para conectarlo a la derecha o a la izquierda.

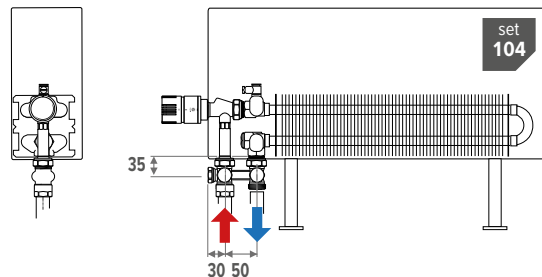
Posibles sets de conexión Eurocono: 102, 104, 182, 184, 282

Posibles sets de conexión M24: 12, 14

### Ejemplo de conexión a la derecha (estándar)



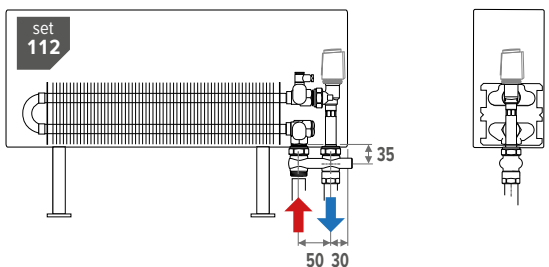
### Ejemplo de conexión a la izquierda



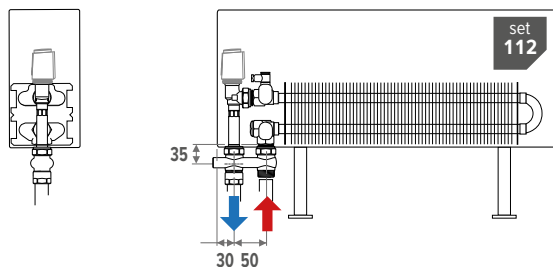
## CONEXIÓN IZQUIERDA O DERECHA CON CONTROL EXTERNO

Posibles sets de conexión Eurocono: 112, 114

### Ejemplo de conexión a la derecha (estándar)



### Ejemplo de conexión a la izquierda



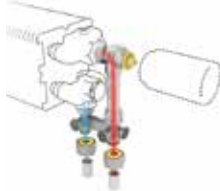
## SETS DE CONEXIÓN MÁS UTILIZADOS

### A suelo - IMPULSIÓN EN EL LADO EXTERIOR

Con válvula-H Jaga



Con válvula dinámica Gampper Vario DP

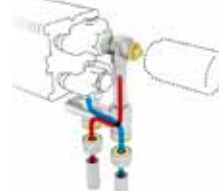


### A suelo - IMPULSIÓN EN EL LADO INTERIOR

Con válvula Crossflow Jaga



Con válvula dinámica Gampper Vario DP



| set 104           |    | KVS: 0.8 |  |
|-------------------|----|----------|--|
| BITUBO / MONOTUBO |    |          |  |
| COLO HBSF AC 4... | AC |          |  |
| COLO HBSF AW 4... | AW |          |  |
| COLO HBSF AS 4... | AS |          |  |
| COLO HBSF AB 4... | AB |          |  |
| COLO HBSF JH 4... | JH |          |  |

completar con el código del racor

| set 184           |    | regulación de caudal automática (20 - 340 l/h) |  |
|-------------------|----|------------------------------------------------|--|
| BITUBO            |    |                                                |  |
| COLO GASF AC 4... | AC |                                                |  |
| COLO GASF AW 4... | AW |                                                |  |
| COLO GASF AS 4... | AS |                                                |  |
| COLO GASF AB 4... | AB |                                                |  |
| COLO GASF JH 4... | JH |                                                |  |

completar con el código del racor

| set 102           |    | KVS: 0.8 |  |
|-------------------|----|----------|--|
| BITUBO            |    |          |  |
| COLO HBCF AC 4... | AC |          |  |
| COLO HBCF AW 4... | AW |          |  |
| COLO HBCF AS 4... | AS |          |  |
| COLO HBCF AB 4... | AB |          |  |
| COLO HBCF JH 4... | JH |          |  |

completar con el código del racor

| set 182           |    | regulación de caudal automática (20 - 340 l/h) |  |
|-------------------|----|------------------------------------------------|--|
| BITUBO            |    |                                                |  |
| COLO GACF AC 4... | AC |                                                |  |
| COLO GACF AW 4... | AW |                                                |  |
| COLO GACF AS 4... | AS |                                                |  |
| COLO GACF AB 4... | AB |                                                |  |
| COLO GACF JH 4... | JH |                                                |  |

completar con el código del racor

### Racores Eurocono 3/4"

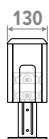
| TUBO DE COBRE / ACERO FINO |            | SINTÉTICO O PER/ALU |            |
|----------------------------|------------|---------------------|------------|
| CÓDIGO                     | Tuberías Ø | CÓDIGO              | Tuberías Ø |
| 112                        | 12/1       | 612                 | 12/2       |
| 114                        | 14/1       | 614                 | 14/2       |
| 115                        | 15/1       | 616                 | 16/2       |
| 116                        | 16/1       | 618                 | 18/2       |
| 118                        | 18/1       | 619                 | 16/1.5     |
|                            |            | 620                 | 20/2       |

Información detallada de las válvulas, ver el catálogo „Sets de conexión y válvulas“.

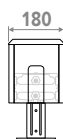
## TEMPO DE-PIE

## ALTURA 020 (ESTÁNDAR)

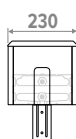
Tipo 10



Tipo 15



Tipo 20

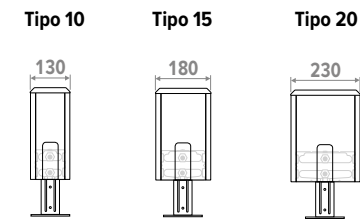


| ALTURA<br>H<br>cm | LONGITUD<br>L<br>cm | TIPO<br>T | CALEFACCIÓN<br>Temperatura ambiente 20°C |                  |                  |                  |                  | PESO<br>kg | CONTENIDO DE AGUA<br>L | CÓDIGO PEDIDO          |
|-------------------|---------------------|-----------|------------------------------------------|------------------|------------------|------------------|------------------|------------|------------------------|------------------------|
|                   |                     |           | 35/30<br>Wattios                         | 45/40<br>Wattios | 50/45<br>Wattios | 55/45<br>Wattios | 75/65<br>Wattios |            |                        |                        |
| TEMF 020          | 050                 | 10        | 46                                       | 106              | 141              | 158              | 328              |            |                        | TEMF 020 050 10 101 AS |
|                   |                     | 15        | 76                                       | 177              | 235              | 263              | 545              |            |                        | TEMF 020 050 15 101 AS |
|                   |                     | 20        | 107                                      | 249              | 330              | 370              | 766              |            |                        | TEMF 020 050 20 101 AS |
|                   | 060                 | 10        | 55                                       | 127              | 169              | 189              | 393              |            |                        | TEMF 020 060 10 101 AS |
|                   |                     | 15        | 92                                       | 212              | 282              | 316              | 654              |            |                        | TEMF 020 060 15 101 AS |
|                   |                     | 20        | 129                                      | 298              | 396              | 444              | 919              |            |                        | TEMF 020 060 20 101 AS |
|                   | 070                 | 10        | 64                                       | 148              | 197              | 221              | 459              |            |                        | TEMF 020 070 10 101 AS |
|                   |                     | 15        | 107                                      | 248              | 329              | 369              | 763              |            |                        | TEMF 020 070 15 101 AS |
|                   |                     | 20        | 150                                      | 348              | 462              | 518              | 1072             |            |                        | TEMF 020 070 20 101 AS |
|                   | 080                 | 10        | 73                                       | 169              | 225              | 252              | 524              |            |                        | TEMF 020 080 10 101 AS |
|                   |                     | 15        | 122                                      | 283              | 376              | 421              | 872              |            |                        | TEMF 020 080 15 101 AS |
|                   |                     | 20        | 172                                      | 398              | 529              | 592              | 1226             |            |                        | TEMF 020 080 20 101 AS |
|                   | 090                 | 10        | 82                                       | 191              | 254              | 284              | 590              |            |                        | TEMF 020 090 10 101 AS |
|                   |                     | 15        | 137                                      | 318              | 423              | 474              | 981              |            |                        | TEMF 020 090 15 101 AS |
|                   |                     | 20        | 193                                      | 448              | 595              | 666              | 1379             |            |                        | TEMF 020 090 20 101 AS |
|                   | 100                 | 10        | 91                                       | 212              | 282              | 316              | 655              |            |                        | TEMF 020 100 10 101 AS |
|                   |                     | 15        | 153                                      | 354              | 470              | 526              | 1090             |            |                        | TEMF 020 100 15 101 AS |
|                   |                     | 20        | 214                                      | 497              | 661              | 740              | 1532             |            |                        | TEMF 020 100 20 101 AS |
|                   | 110                 | 10        | 100                                      | 233              | 310              | 347              | 721              |            |                        | TEMF 020 110 10 101 AS |
|                   |                     | 15        | 168                                      | 389              | 517              | 579              | 1199             |            |                        | TEMF 020 110 15 101 AS |
|                   |                     | 20        | 236                                      | 547              | 727              | 814              | 1685             |            |                        | TEMF 020 110 20 101 AS |
|                   | 120                 | 10        | 109                                      | 254              | 338              | 379              | 786              |            |                        | TEMF 020 120 10 101 AS |
|                   |                     | 15        | 183                                      | 424              | 564              | 632              | 1308             |            |                        | TEMF 020 120 15 101 AS |
|                   |                     | 20        | 257                                      | 596              | 793              | 888              | 1838             |            |                        | TEMF 020 120 20 101 AS |
|                   | 140                 | 10        | 127                                      | 296              | 394              | 442              | 917              |            |                        | TEMF 020 140 10 101 AS |
|                   |                     | 15        | 214                                      | 495              | 658              | 737              | 1526             |            |                        | TEMF 020 140 15 101 AS |
|                   |                     | 20        | 300                                      | 696              | 925              | 1036             | 2145             |            |                        | TEMF 020 140 20 101 AS |
|                   | 160                 | 10        | 146                                      | 339              | 451              | 505              | 1048             |            |                        | TEMF 020 160 10 101 AS |
|                   |                     | 15        | 244                                      | 566              | 752              | 842              | 1744             |            |                        | TEMF 020 160 15 101 AS |
|                   |                     | 20        | 343                                      | 795              | 1057             | 1184             | 2451             |            |                        | TEMF 020 160 20 101 AS |
|                   | 180                 | 10        | 164                                      | 381              | 507              | 568              | 1179             |            |                        | TEMF 020 180 10 101 AS |
|                   |                     | 15        | 275                                      | 637              | 846              | 948              | 1962             |            |                        | TEMF 020 180 15 101 AS |
|                   |                     | 20        | 386                                      | 895              | 1190             | 1332             | 2758             |            |                        | TEMF 020 180 20 101 AS |
|                   | 200                 | 10        | 182                                      | 423              | 563              | 631              | 1310             |            |                        | TEMF 020 200 10 101 AS |
|                   |                     | 15        | 305                                      | 707              | 940              | 1053             | 2180             |            |                        | TEMF 020 200 15 101 AS |
|                   |                     | 20        | 429                                      | 994              | 1322             | 1480             | 3064             |            |                        | TEMF 020 200 20 101 AS |
|                   | 220                 | 10        | 200                                      | 466              | 620              | 694              | 1441             |            |                        | TEMF 020 220 10 101 AS |
|                   |                     | 15        | 336                                      | 778              | 1034             | 1158             | 2398             |            |                        | TEMF 020 220 15 101 AS |
|                   |                     | 20        | 472                                      | 1094             | 1454             | 1628             | 3370             |            |                        | TEMF 020 220 20 101 AS |
|                   | 240                 | 10        | 219                                      | 508              | 676              | 757              | 1572             |            |                        | TEMF 020 240 10 101 AS |
|                   |                     | 15        | 366                                      | 849              | 1128             | 1264             | 2616             |            |                        | TEMF 020 240 15 101 AS |
|                   |                     | 20        | 515                                      | 1193             | 1586             | 1776             | 3677             |            |                        | TEMF 020 240 20 101 AS |
|                   | 260                 | 10        | 237                                      | 550              | 732              | 820              | 1703             |            |                        | TEMF 020 260 10 101 AS |
|                   |                     | 15        | 397                                      | 920              | 1222             | 1369             | 2834             |            |                        | TEMF 020 260 15 101 AS |
|                   |                     | 20        | 558                                      | 1293             | 1718             | 1924             | 3983             |            |                        | TEMF 020 260 20 101 AS |
|                   | 280                 | 10        | 255                                      | 593              | 789              | 884              | 1834             |            |                        | TEMF 020 280 10 101 AS |
|                   |                     | 15        | 427                                      | 990              | 1316             | 1474             | 3052             |            |                        | TEMF 020 280 15 101 AS |
|                   |                     | 20        | 600                                      | 1392             | 1850             | 2072             | 4290             |            |                        | TEMF 020 280 20 101 AS |
|                   | 300                 | 10        | 273                                      | 635              | 845              | 947              | 1965             |            |                        | TEMF 020 300 10 101 AS |
|                   |                     | 15        | 458                                      | 1061             | 1410             | 1579             | 3270             |            |                        | TEMF 020 300 15 101 AS |
|                   |                     | 20        | 643                                      | 1491             | 1982             | 2220             | 4596             |            |                        | TEMF 020 300 20 101 AS |

Emisión EN442 a 20°C

TEMPO DE-PIE

ALTURA 030 (ESTÁNDAR)



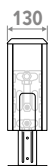
| ALTURA   |     | LONGITUD | TIPO | CALEFACCIÓN<br>Temperatura ambiente 20°C |         |         |         |         | PESO<br>CONTENIDO DE AGUA |   | CÓDIGO PEDIDO          |
|----------|-----|----------|------|------------------------------------------|---------|---------|---------|---------|---------------------------|---|------------------------|
|          |     |          |      | 35/30                                    | 45/40   | 50/45   | 55/45   | 75/65   |                           |   |                        |
|          |     |          |      | Wattios                                  | Wattios | Wattios | Wattios | Wattios |                           |   |                        |
| H        | L   | T        |      |                                          |         |         |         |         | kg                        | L |                        |
| cm       | cm  | cm       |      |                                          |         |         |         |         |                           |   |                        |
| TEMF 030 | 050 | 10       |      | 58                                       | 135     | 179     | 200     | 413     |                           |   | TEMF 030 050 10 101 AS |
|          |     | 15       |      | 97                                       | 223     | 295     | 330     | 680     |                           |   | TEMF 030 050 15 101 AS |
|          |     | 20       |      | 136                                      | 312     | 414     | 463     | 953     |                           |   | TEMF 030 050 20 101 AS |
|          | 060 | 10       |      | 70                                       | 162     | 215     | 240     | 496     |                           |   | TEMF 030 060 10 101 AS |
|          |     | 15       |      | 116                                      | 267     | 354     | 396     | 815     |                           |   | TEMF 030 060 15 101 AS |
|          |     | 20       |      | 163                                      | 375     | 497     | 556     | 1144    |                           |   | TEMF 030 060 20 101 AS |
|          | 070 | 10       |      | 81                                       | 188     | 250     | 280     | 578     |                           |   | TEMF 030 070 10 101 AS |
|          |     | 15       |      | 135                                      | 312     | 413     | 462     | 951     |                           |   | TEMF 030 070 15 101 AS |
|          |     | 20       |      | 190                                      | 437     | 580     | 648     | 1334    |                           |   | TEMF 030 070 20 101 AS |
|          | 080 | 10       |      | 93                                       | 215     | 286     | 320     | 661     |                           |   | TEMF 030 080 10 101 AS |
|          |     | 15       |      | 155                                      | 356     | 472     | 528     | 1087    |                           |   | TEMF 030 080 15 101 AS |
|          |     | 20       |      | 217                                      | 500     | 662     | 741     | 1525    |                           |   | TEMF 030 080 20 101 AS |
|          | 090 | 10       |      | 105                                      | 242     | 321     | 360     | 743     |                           |   | TEMF 030 090 10 101 AS |
|          |     | 15       |      | 174                                      | 401     | 531     | 594     | 1223    |                           |   | TEMF 030 090 15 101 AS |
|          |     | 20       |      | 244                                      | 562     | 745     | 834     | 1715    |                           |   | TEMF 030 090 20 101 AS |
|          | 100 | 10       |      | 116                                      | 269     | 357     | 400     | 826     |                           |   | TEMF 030 100 10 101 AS |
|          |     | 15       |      | 193                                      | 445     | 590     | 660     | 1359    |                           |   | TEMF 030 100 15 101 AS |
|          |     | 20       |      | 271                                      | 624     | 828     | 926     | 1906    |                           |   | TEMF 030 100 20 101 AS |
|          | 110 | 10       |      | 128                                      | 296     | 393     | 440     | 909     |                           |   | TEMF 030 110 10 101 AS |
|          |     | 15       |      | 213                                      | 490     | 649     | 727     | 1495    |                           |   | TEMF 030 110 15 101 AS |
|          |     | 20       |      | 298                                      | 687     | 911     | 1019    | 2097    |                           |   | TEMF 030 110 20 101 AS |
|          | 120 | 10       |      | 140                                      | 323     | 429     | 480     | 991     |                           |   | TEMF 030 120 10 101 AS |
|          |     | 15       |      | 232                                      | 534     | 709     | 793     | 1631    |                           |   | TEMF 030 120 15 101 AS |
|          |     | 20       |      | 326                                      | 749     | 993     | 1112    | 2287    |                           |   | TEMF 030 120 20 101 AS |
|          | 140 | 10       |      | 163                                      | 377     | 500     | 560     | 1156    |                           |   | TEMF 030 140 10 101 AS |
|          |     | 15       |      | 271                                      | 624     | 827     | 925     | 1903    |                           |   | TEMF 030 140 15 101 AS |
|          |     | 20       |      | 380                                      | 874     | 1159    | 1297    | 2668    |                           |   | TEMF 030 140 20 101 AS |
|          | 160 | 10       |      | 186                                      | 431     | 572     | 640     | 1322    |                           |   | TEMF 030 160 10 101 AS |
|          |     | 15       |      | 309                                      | 712     | 944     | 1057    | 2174    |                           |   | TEMF 030 160 15 101 AS |
|          |     | 20       |      | 434                                      | 999     | 1325    | 1482    | 3050    |                           |   | TEMF 030 160 20 101 AS |
|          | 180 | 10       |      | 210                                      | 484     | 643     | 720     | 1487    |                           |   | TEMF 030 180 10 101 AS |
|          |     | 15       |      | 348                                      | 801     | 1063    | 1189    | 2446    |                           |   | TEMF 030 180 15 101 AS |
|          |     | 20       |      | 488                                      | 1124    | 1490    | 1668    | 3431    |                           |   | TEMF 030 180 20 101 AS |
|          | 200 | 10       |      | 233                                      | 538     | 715     | 800     | 1652    |                           |   | TEMF 030 200 10 101 AS |
|          |     | 15       |      | 387                                      | 891     | 1181    | 1321    | 2718    |                           |   | TEMF 030 200 15 101 AS |
|          |     | 20       |      | 543                                      | 1249    | 1656    | 1853    | 3812    |                           |   | TEMF 030 200 20 101 AS |
|          | 220 | 10       |      | 256                                      | 592     | 786     | 880     | 1817    |                           |   | TEMF 030 220 10 101 AS |
|          |     | 15       |      | 426                                      | 980     | 1299    | 1453    | 2990    |                           |   | TEMF 030 220 15 101 AS |
|          |     | 20       |      | 597                                      | 1374    | 1821    | 2038    | 4193    |                           |   | TEMF 030 220 20 101 AS |
|          | 240 | 10       |      | 279                                      | 646     | 857     | 960     | 1982    |                           |   | TEMF 030 240 10 101 AS |
|          |     | 15       |      | 464                                      | 1069    | 1417    | 1585    | 3262    |                           |   | TEMF 030 240 15 101 AS |
|          |     | 20       |      | 651                                      | 1499    | 1987    | 2223    | 4574    |                           |   | TEMF 030 240 20 101 AS |
|          | 260 | 10       |      | 303                                      | 700     | 929     | 1040    | 2148    |                           |   | TEMF 030 260 10 101 AS |
|          |     | 15       |      | 503                                      | 1158    | 1535    | 1717    | 3533    |                           |   | TEMF 030 260 15 101 AS |
|          |     | 20       |      | 705                                      | 1624    | 2153    | 2409    | 4956    |                           |   | TEMF 030 260 20 101 AS |
|          | 280 | 10       |      | 326                                      | 754     | 1001    | 1120    | 2313    |                           |   | TEMF 030 280 10 101 AS |
|          |     | 15       |      | 542                                      | 1247    | 1653    | 1849    | 3805    |                           |   | TEMF 030 280 15 101 AS |
|          |     | 20       |      | 760                                      | 1749    | 2318    | 2594    | 5337    |                           |   | TEMF 030 280 20 101 AS |
|          | 300 | 10       |      | 349                                      | 807     | 1072    | 1200    | 2478    |                           |   | TEMF 030 300 10 101 AS |
|          |     | 15       |      | 580                                      | 1336    | 1771    | 1981    | 4077    |                           |   | TEMF 030 300 15 101 AS |
|          |     | 20       |      | 814                                      | 1873    | 2484    | 2779    | 5718    |                           |   | TEMF 030 300 20 101 AS |

Emisión EN442 a 20°C

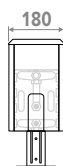
## TEMPO DE-PIE

## ALTURA 030 (TWIN)

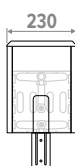
Tipo 11



Tipo 16



Tipo 21



| ALTURA<br>H<br>cm | LONGITUD<br>L<br>cm | TIPO<br>T | CALEFACCIÓN<br>Temperatura ambiente 20°C |                  |                  |                  |                  | PESO<br>kg | CONTENIDO DE AGUA<br>L | CÓDIGO PEDIDO          |
|-------------------|---------------------|-----------|------------------------------------------|------------------|------------------|------------------|------------------|------------|------------------------|------------------------|
|                   |                     |           | 35/30<br>Wattios                         | 45/40<br>Wattios | 50/45<br>Wattios | 55/45<br>Wattios | 75/65<br>Wattios |            |                        |                        |
| TEMF 030          | 050                 | 11        | 75                                       | 177              | 237              | 267              | 561              |            |                        | TEMF 030 050 11 101 AS |
|                   |                     | 16        | 97                                       | 231              | 310              | 349              | 740              |            |                        | TEMF 030 050 16 101 AS |
|                   |                     | 21        | 125                                      | 301              | 405              | 456              | 974              |            |                        | TEMF 030 050 21 101 AS |
|                   | 060                 | 11        | 90                                       | 213              | 285              | 320              | 673              |            |                        | TEMF 030 060 11 101 AS |
|                   |                     | 16        | 116                                      | 277              | 372              | 418              | 888              |            |                        | TEMF 030 060 16 101 AS |
|                   |                     | 21        | 150                                      | 362              | 486              | 547              | 1169             |            |                        | TEMF 030 060 21 101 AS |
|                   | 070                 | 11        | 105                                      | 248              | 332              | 373              | 785              |            |                        | TEMF 030 070 11 101 AS |
|                   |                     | 16        | 136                                      | 324              | 434              | 488              | 1036             |            |                        | TEMF 030 070 16 101 AS |
|                   |                     | 21        | 176                                      | 422              | 568              | 639              | 1364             |            |                        | TEMF 030 070 21 101 AS |
|                   | 080                 | 11        | 120                                      | 284              | 380              | 426              | 897              |            |                        | TEMF 030 080 11 101 AS |
|                   |                     | 16        | 155                                      | 370              | 496              | 558              | 1184             |            |                        | TEMF 030 080 16 101 AS |
|                   |                     | 21        | 201                                      | 482              | 648              | 730              | 1558             |            |                        | TEMF 030 080 21 101 AS |
|                   | 090                 | 11        | 135                                      | 319              | 427              | 479              | 1009             |            |                        | TEMF 030 090 11 101 AS |
|                   |                     | 16        | 174                                      | 416              | 558              | 628              | 1332             |            |                        | TEMF 030 090 16 101 AS |
|                   |                     | 21        | 226                                      | 542              | 729              | 821              | 1753             |            |                        | TEMF 030 090 21 101 AS |
|                   | 100                 | 11        | 150                                      | 355              | 474              | 533              | 1121             |            |                        | TEMF 030 100 11 101 AS |
|                   |                     | 16        | 194                                      | 462              | 620              | 697              | 1480             |            |                        | TEMF 030 100 16 101 AS |
|                   |                     | 21        | 251                                      | 603              | 811              | 912              | 1948             |            |                        | TEMF 030 100 21 101 AS |
|                   | 110                 | 11        | 165                                      | 390              | 522              | 586              | 1233             |            |                        | TEMF 030 110 11 101 AS |
|                   |                     | 16        | 213                                      | 508              | 682              | 767              | 1628             |            |                        | TEMF 030 110 16 101 AS |
|                   |                     | 21        | 276                                      | 663              | 892              | 1003             | 2143             |            |                        | TEMF 030 110 21 101 AS |
|                   | 120                 | 11        | 180                                      | 425              | 569              | 639              | 1345             |            |                        | TEMF 030 120 11 101 AS |
|                   |                     | 16        | 232                                      | 555              | 744              | 837              | 1776             |            |                        | TEMF 030 120 16 101 AS |
|                   |                     | 21        | 301                                      | 723              | 973              | 1095             | 2338             |            |                        | TEMF 030 120 21 101 AS |
|                   | 140                 | 11        | 210                                      | 496              | 664              | 745              | 1569             |            |                        | TEMF 030 140 11 101 AS |
|                   |                     | 16        | 271                                      | 647              | 868              | 976              | 2072             |            |                        | TEMF 030 140 16 101 AS |
|                   |                     | 21        | 351                                      | 844              | 1135             | 1277             | 2727             |            |                        | TEMF 030 140 21 101 AS |
|                   | 160                 | 11        | 240                                      | 567              | 759              | 852              | 1794             |            |                        | TEMF 030 160 11 101 AS |
|                   |                     | 16        | 310                                      | 740              | 992              | 1116             | 2368             |            |                        | TEMF 030 160 16 101 AS |
|                   |                     | 21        | 401                                      | 964              | 1297             | 1460             | 3117             |            |                        | TEMF 030 160 21 101 AS |
|                   | 180                 | 11        | 270                                      | 638              | 854              | 959              | 2018             |            |                        | TEMF 030 180 11 101 AS |
|                   |                     | 16        | 349                                      | 832              | 1117             | 1255             | 2664             |            |                        | TEMF 030 180 16 101 AS |
|                   |                     | 21        | 451                                      | 1084             | 1459             | 1642             | 3506             |            |                        | TEMF 030 180 21 101 AS |
|                   | 200                 | 11        | 300                                      | 709              | 949              | 1065             | 2242             |            |                        | TEMF 030 200 11 101 AS |
|                   |                     | 16        | 387                                      | 924              | 1241             | 1395             | 2960             |            |                        | TEMF 030 200 16 101 AS |
|                   |                     | 21        | 502                                      | 1205             | 1621             | 1824             | 3896             |            |                        | TEMF 030 200 21 101 AS |
|                   | 220                 | 11        | 330                                      | 780              | 1043             | 1172             | 2466             |            |                        | TEMF 030 220 11 101 AS |
|                   |                     | 16        | 426                                      | 1017             | 1365             | 1534             | 3256             |            |                        | TEMF 030 220 16 101 AS |
|                   |                     | 21        | 552                                      | 1326             | 1784             | 2007             | 4286             |            |                        | TEMF 030 220 21 101 AS |
|                   | 240                 | 11        | 360                                      | 851              | 1138             | 1278             | 2690             |            |                        | TEMF 030 240 11 101 AS |
|                   |                     | 16        | 465                                      | 1109             | 1489             | 1674             | 3552             |            |                        | TEMF 030 240 16 101 AS |
|                   |                     | 21        | 602                                      | 1446             | 1945             | 2189             | 4675             |            |                        | TEMF 030 240 21 101 AS |
|                   | 260                 | 11        | 390                                      | 922              | 1233             | 1385             | 2915             |            |                        | TEMF 030 260 11 101 AS |
|                   |                     | 16        | 504                                      | 1202             | 1613             | 1813             | 3848             |            |                        | TEMF 030 260 16 101 AS |
|                   |                     | 21        | 652                                      | 1567             | 2108             | 2372             | 5065             |            |                        | TEMF 030 260 21 101 AS |
|                   | 280                 | 11        | 420                                      | 993              | 1328             | 1491             | 3139             |            |                        | TEMF 030 280 11 101 AS |
|                   |                     | 16        | 542                                      | 1294             | 1737             | 1953             | 4144             |            |                        | TEMF 030 280 16 101 AS |
|                   |                     | 21        | 702                                      | 1687             | 2270             | 2554             | 5454             |            |                        | TEMF 030 280 21 101 AS |
|                   | 300                 | 11        | 450                                      | 1064             | 1423             | 1598             | 3363             |            |                        | TEMF 030 300 11 101 AS |
|                   |                     | 16        | 581                                      | 1387             | 1861             | 2092             | 4440             |            |                        | TEMF 030 300 16 101 AS |
|                   |                     | 21        | 752                                      | 1808             | 2432             | 2736             | 5844             |            |                        | TEMF 030 300 21 101 AS |

Emisión EN442 a 20°C

## TEMPO DE-PIE

## ALTURA 040 (ESTÁNDAR)

Tipo 10



Tipo 15



Tipo 20



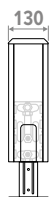
| ALTURA   | LONGITUD | TIPO | CALEFACCIÓN<br>Temperatura ambiente 20°C |         |         |         |         | PESO | CONTENIDO DE AGUA | CÓDIGO PEDIDO          |
|----------|----------|------|------------------------------------------|---------|---------|---------|---------|------|-------------------|------------------------|
|          |          |      | 35/30                                    | 45/40   | 50/45   | 55/45   | 75/65   |      |                   |                        |
|          |          |      | Wattios                                  | Wattios | Wattios | Wattios | Wattios |      |                   |                        |
| H        | L        | T    |                                          |         |         |         |         | kg   | L                 |                        |
| cm       | cm       |      |                                          |         |         |         |         |      |                   |                        |
| TEMF 040 | 050      | 10   | 69                                       | 158     | 210     | 234     | 482     |      |                   | TEMF 040 050 10 101 AS |
|          |          | 15   | 113                                      | 259     | 343     | 383     | 784     |      |                   | TEMF 040 050 15 101 AS |
|          |          | 20   | 159                                      | 363     | 480     | 537     | 1098    |      |                   | TEMF 040 050 20 101 AS |
|          | 060      | 10   | 83                                       | 190     | 251     | 281     | 578     |      |                   | TEMF 040 060 10 101 AS |
|          |          | 15   | 136                                      | 311     | 411     | 460     | 941     |      |                   | TEMF 040 060 15 101 AS |
|          |          | 20   | 191                                      | 436     | 577     | 645     | 1318    |      |                   | TEMF 040 060 20 101 AS |
|          | 070      | 10   | 96                                       | 221     | 293     | 328     | 674     |      |                   | TEMF 040 070 10 101 AS |
|          |          | 15   | 159                                      | 363     | 480     | 537     | 1098    |      |                   | TEMF 040 070 15 101 AS |
|          |          | 20   | 222                                      | 508     | 672     | 752     | 1537    |      |                   | TEMF 040 070 20 101 AS |
|          | 080      | 10   | 110                                      | 253     | 335     | 375     | 770     |      |                   | TEMF 040 080 10 101 AS |
|          |          | 15   | 181                                      | 414     | 548     | 613     | 1254    |      |                   | TEMF 040 080 15 101 AS |
|          |          | 20   | 254                                      | 581     | 769     | 859     | 1757    |      |                   | TEMF 040 080 20 101 AS |
|          | 090      | 10   | 124                                      | 285     | 377     | 422     | 867     |      |                   | TEMF 040 090 10 101 AS |
|          |          | 15   | 204                                      | 466     | 617     | 690     | 1411    |      |                   | TEMF 040 090 15 101 AS |
|          |          | 20   | 286                                      | 654     | 865     | 966     | 1976    |      |                   | TEMF 040 090 20 101 AS |
|          | 100      | 10   | 137                                      | 316     | 419     | 469     | 963     |      |                   | TEMF 040 100 10 101 AS |
|          |          | 15   | 227                                      | 518     | 686     | 766     | 1568    |      |                   | TEMF 040 100 15 101 AS |
|          |          | 20   | 318                                      | 726     | 961     | 1074    | 2196    |      |                   | TEMF 040 100 20 101 AS |
|          | 110      | 10   | 151                                      | 348     | 461     | 515     | 1059    |      |                   | TEMF 040 110 10 101 AS |
|          |          | 15   | 249                                      | 570     | 754     | 843     | 1725    |      |                   | TEMF 040 110 15 101 AS |
|          |          | 20   | 350                                      | 799     | 1057    | 1182    | 2416    |      |                   | TEMF 040 110 20 101 AS |
|          | 120      | 10   | 165                                      | 379     | 503     | 562     | 1156    |      |                   | TEMF 040 120 10 101 AS |
|          |          | 15   | 272                                      | 622     | 823     | 920     | 1882    |      |                   | TEMF 040 120 15 101 AS |
|          |          | 20   | 381                                      | 872     | 1153    | 1289    | 2635    |      |                   | TEMF 040 120 20 101 AS |
|          | 140      | 10   | 192                                      | 442     | 586     | 656     | 1348    |      |                   | TEMF 040 140 10 101 AS |
|          |          | 15   | 317                                      | 726     | 960     | 1073    | 2195    |      |                   | TEMF 040 140 15 101 AS |
|          |          | 20   | 445                                      | 1017    | 1345    | 1503    | 3074    |      |                   | TEMF 040 140 20 101 AS |
|          | 160      | 10   | 220                                      | 506     | 670     | 750     | 1541    |      |                   | TEMF 040 160 10 101 AS |
|          |          | 15   | 363                                      | 829     | 1097    | 1226    | 2509    |      |                   | TEMF 040 160 15 101 AS |
|          |          | 20   | 509                                      | 1162    | 1537    | 1718    | 3514    |      |                   | TEMF 040 160 20 101 AS |
|          | 180      | 10   | 247                                      | 569     | 754     | 843     | 1733    |      |                   | TEMF 040 180 10 101 AS |
|          |          | 15   | 408                                      | 933     | 1234    | 1379    | 2822    |      |                   | TEMF 040 180 15 101 AS |
|          |          | 20   | 572                                      | 1308    | 1730    | 1933    | 3953    |      |                   | TEMF 040 180 20 101 AS |
|          | 200      | 10   | 275                                      | 632     | 838     | 937     | 1926    |      |                   | TEMF 040 200 10 101 AS |
|          |          | 15   | 453                                      | 1037    | 1371    | 1533    | 3136    |      |                   | TEMF 040 200 15 101 AS |
|          |          | 20   | 636                                      | 1453    | 1922    | 2148    | 4392    |      |                   | TEMF 040 200 20 101 AS |
|          | 220      | 10   | 302                                      | 695     | 922     | 1031    | 2119    |      |                   | TEMF 040 220 10 101 AS |
|          |          | 15   | 499                                      | 1140    | 1509    | 1686    | 3450    |      |                   | TEMF 040 220 15 101 AS |
|          |          | 20   | 699                                      | 1598    | 2114    | 2363    | 4831    |      |                   | TEMF 040 220 20 101 AS |
|          | 240      | 10   | 330                                      | 758     | 1005    | 1124    | 2311    |      |                   | TEMF 040 240 10 101 AS |
|          |          | 15   | 544                                      | 1244    | 1645    | 1839    | 3763    |      |                   | TEMF 040 240 15 101 AS |
|          |          | 20   | 763                                      | 1743    | 2306    | 2577    | 5270    |      |                   | TEMF 040 240 20 101 AS |
|          | 260      | 10   | 357                                      | 822     | 1089    | 1218    | 2504    |      |                   | TEMF 040 260 10 101 AS |
|          |          | 15   | 589                                      | 1348    | 1783    | 1993    | 4077    |      |                   | TEMF 040 260 15 101 AS |
|          |          | 20   | 826                                      | 1889    | 2498    | 2792    | 5710    |      |                   | TEMF 040 260 20 101 AS |
|          | 280      | 10   | 385                                      | 885     | 1173    | 1312    | 2696    |      |                   | TEMF 040 280 10 101 AS |
|          |          | 15   | 635                                      | 1451    | 1920    | 2146    | 4390    |      |                   | TEMF 040 280 15 101 AS |
|          |          | 20   | 890                                      | 2034    | 2690    | 3007    | 6149    |      |                   | TEMF 040 280 20 101 AS |
|          | 300      | 10   | 412                                      | 948     | 1257    | 1406    | 2889    |      |                   | TEMF 040 300 10 101 AS |
|          |          | 15   | 680                                      | 1555    | 2057    | 2299    | 4704    |      |                   | TEMF 040 300 15 101 AS |
|          |          | 20   | 954                                      | 2179    | 2882    | 3222    | 6588    |      |                   | TEMF 040 300 20 101 AS |

Emisión EN442 a 20°C

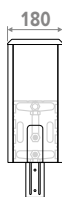
# TEMPO DE-PIE

# ALTURA 040 (TWIN)

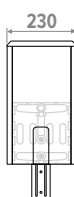
Tipo 11



Tipo 16



Tipo 21

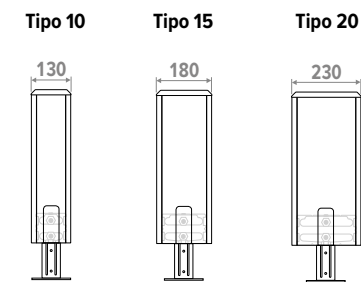


| ALTURA<br>H<br>cm | LONGITUD<br>L<br>cm | TIPO<br>T | CALEFACCIÓN<br>Temperatura ambiente 20°C |                  |                  |                  |                  | PESO<br>kg | CONTENIDO DE AGUA<br>L | CÓDIGO PEDIDO          |
|-------------------|---------------------|-----------|------------------------------------------|------------------|------------------|------------------|------------------|------------|------------------------|------------------------|
|                   |                     |           | 35/30<br>Wattios                         | 45/40<br>Wattios | 50/45<br>Wattios | 55/45<br>Wattios | 75/65<br>Wattios |            |                        |                        |
| TEMF 040          | 050                 | 11        | 85                                       | 200              | 268              | 300              | 632              |            |                        | TEMF 040 050 11 101 AS |
|                   |                     | 16        | 111                                      | 265              | 355              | 400              | 850              |            |                        | TEMF 040 050 16 101 AS |
|                   |                     | 21        | 145                                      | 349              | 471              | 530              | 1137             |            |                        | TEMF 040 050 21 101 AS |
|                   | 060                 | 11        | 102                                      | 240              | 321              | 360              | 758              |            |                        | TEMF 040 060 11 101 AS |
|                   |                     | 16        | 133                                      | 318              | 426              | 480              | 1020             |            |                        | TEMF 040 060 16 101 AS |
|                   |                     | 21        | 173                                      | 419              | 565              | 636              | 1364             |            |                        | TEMF 040 060 21 101 AS |
|                   | 070                 | 11        | 119                                      | 280              | 375              | 421              | 885              |            |                        | TEMF 040 070 11 101 AS |
|                   |                     | 16        | 155                                      | 370              | 498              | 560              | 1190             |            |                        | TEMF 040 070 16 101 AS |
|                   |                     | 21        | 202                                      | 489              | 659              | 742              | 1592             |            |                        | TEMF 040 070 21 101 AS |
|                   | 080                 | 11        | 136                                      | 320              | 428              | 481              | 1011             |            |                        | TEMF 040 080 11 101 AS |
|                   |                     | 16        | 177                                      | 423              | 569              | 639              | 1360             |            |                        | TEMF 040 080 16 101 AS |
|                   |                     | 21        | 231                                      | 559              | 753              | 848              | 1819             |            |                        | TEMF 040 080 21 101 AS |
|                   | 090                 | 11        | 153                                      | 360              | 482              | 541              | 1138             |            |                        | TEMF 040 090 11 101 AS |
|                   |                     | 16        | 199                                      | 476              | 640              | 719              | 1530             |            |                        | TEMF 040 090 16 101 AS |
|                   |                     | 21        | 260                                      | 629              | 847              | 954              | 2047             |            |                        | TEMF 040 090 21 101 AS |
|                   | 100                 | 11        | 169                                      | 400              | 535              | 601              | 1264             |            |                        | TEMF 040 100 11 101 AS |
|                   |                     | 16        | 221                                      | 529              | 711              | 799              | 1700             |            |                        | TEMF 040 100 16 101 AS |
|                   |                     | 21        | 289                                      | 698              | 941              | 1060             | 2274             |            |                        | TEMF 040 100 21 101 AS |
|                   | 110                 | 11        | 186                                      | 440              | 589              | 661              | 1390             |            |                        | TEMF 040 110 11 101 AS |
|                   |                     | 16        | 243                                      | 582              | 782              | 879              | 1870             |            |                        | TEMF 040 110 16 101 AS |
|                   |                     | 21        | 318                                      | 768              | 1035             | 1166             | 2501             |            |                        | TEMF 040 110 21 101 AS |
|                   | 120                 | 11        | 203                                      | 480              | 642              | 721              | 1517             |            |                        | TEMF 040 120 11 101 AS |
|                   |                     | 16        | 266                                      | 635              | 853              | 959              | 2040             |            |                        | TEMF 040 120 16 101 AS |
|                   |                     | 21        | 347                                      | 838              | 1130             | 1272             | 2729             |            |                        | TEMF 040 120 21 101 AS |
|                   | 140                 | 11        | 237                                      | 560              | 749              | 841              | 1770             |            |                        | TEMF 040 140 11 101 AS |
|                   |                     | 16        | 310                                      | 741              | 995              | 1119             | 2380             |            |                        | TEMF 040 140 16 101 AS |
|                   |                     | 21        | 405                                      | 978              | 1318             | 1484             | 3184             |            |                        | TEMF 040 140 21 101 AS |
|                   | 160                 | 11        | 271                                      | 640              | 856              | 961              | 2022             |            |                        | TEMF 040 160 11 101 AS |
|                   |                     | 16        | 354                                      | 847              | 1137             | 1279             | 2720             |            |                        | TEMF 040 160 16 101 AS |
|                   |                     | 21        | 462                                      | 1117             | 1506             | 1696             | 3638             |            |                        | TEMF 040 160 21 101 AS |
|                   | 180                 | 11        | 305                                      | 720              | 963              | 1081             | 2275             |            |                        | TEMF 040 180 11 101 AS |
|                   |                     | 16        | 398                                      | 953              | 1279             | 1439             | 3060             |            |                        | TEMF 040 180 16 101 AS |
|                   |                     | 21        | 520                                      | 1257             | 1694             | 1908             | 4093             |            |                        | TEMF 040 180 21 101 AS |
|                   | 200                 | 11        | 339                                      | 800              | 1070             | 1202             | 2528             |            |                        | TEMF 040 200 11 101 AS |
|                   |                     | 16        | 443                                      | 1058             | 1422             | 1599             | 3400             |            |                        | TEMF 040 200 16 101 AS |
|                   |                     | 21        | 578                                      | 1397             | 1882             | 2120             | 4548             |            |                        | TEMF 040 200 21 101 AS |
|                   | 220                 | 11        | 373                                      | 880              | 1177             | 1322             | 2781             |            |                        | TEMF 040 220 11 101 AS |
|                   |                     | 16        | 487                                      | 1164             | 1564             | 1759             | 3740             |            |                        | TEMF 040 220 16 101 AS |
|                   |                     | 21        | 636                                      | 1536             | 2071             | 2332             | 5003             |            |                        | TEMF 040 220 21 101 AS |
|                   | 240                 | 11        | 407                                      | 960              | 1285             | 1442             | 3034             |            |                        | TEMF 040 240 11 101 AS |
|                   |                     | 16        | 531                                      | 1270             | 1706             | 1918             | 4080             |            |                        | TEMF 040 240 16 101 AS |
|                   |                     | 21        | 694                                      | 1676             | 2259             | 2544             | 5458             |            |                        | TEMF 040 240 21 101 AS |
|                   | 260                 | 11        | 440                                      | 1040             | 1391             | 1562             | 3286             |            |                        | TEMF 040 260 11 101 AS |
|                   |                     | 16        | 575                                      | 1376             | 1848             | 2078             | 4420             |            |                        | TEMF 040 260 16 101 AS |
|                   |                     | 21        | 752                                      | 1816             | 2447             | 2755             | 5912             |            |                        | TEMF 040 260 21 101 AS |
|                   | 280                 | 11        | 474                                      | 1120             | 1498             | 1682             | 3539             |            |                        | TEMF 040 280 11 101 AS |
|                   |                     | 16        | 620                                      | 1482             | 1990             | 2238             | 4760             |            |                        | TEMF 040 280 16 101 AS |
|                   |                     | 21        | 809                                      | 1955             | 2635             | 2968             | 6367             |            |                        | TEMF 040 280 21 101 AS |
|                   | 300                 | 11        | 508                                      | 1200             | 1606             | 1802             | 3792             |            |                        | TEMF 040 300 11 101 AS |
|                   |                     | 16        | 664                                      | 1588             | 2132             | 2398             | 5100             |            |                        | TEMF 040 300 16 101 AS |
|                   |                     | 21        | 867                                      | 2095             | 2824             | 3180             | 6822             |            |                        | TEMF 040 300 21 101 AS |

Emisión EN442 a 20°C

TEMPO DE-PIE

ALTURA 050 (ESTÁNDAR)



| ALTURA   |     | LONGITUD | TIPO | CALEFACCIÓN<br>Temperatura ambiente 20°C |         |         |         |         | PESO<br>CONTENIDO DE AGUA |   | CÓDIGO PEDIDO          |
|----------|-----|----------|------|------------------------------------------|---------|---------|---------|---------|---------------------------|---|------------------------|
|          |     |          |      | 35/30                                    | 45/40   | 50/45   | 55/45   | 75/65   |                           |   |                        |
|          |     |          |      | Wattios                                  | Wattios | Wattios | Wattios | Wattios |                           |   |                        |
| H        | L   | T        |      |                                          |         |         |         |         | kg                        | L |                        |
| cm       | cm  |          |      |                                          |         |         |         |         |                           |   |                        |
| TEMF 050 | 050 | 10       |      | 78                                       | 178     | 235     | 263     | 538     |                           |   | TEMF 050 050 10 101 AS |
|          |     | 15       |      | 127                                      | 289     | 382     | 426     | 867     |                           |   | TEMF 050 050 15 101 AS |
|          |     | 20       |      | 178                                      | 405     | 534     | 597     | 1213    |                           |   | TEMF 050 050 20 101 AS |
|          | 060 | 10       |      | 93                                       | 214     | 282     | 316     | 646     |                           |   | TEMF 050 060 10 101 AS |
|          |     | 15       |      | 153                                      | 347     | 458     | 511     | 1040    |                           |   | TEMF 050 060 15 101 AS |
|          |     | 20       |      | 214                                      | 486     | 641     | 716     | 1455    |                           |   | TEMF 050 060 20 101 AS |
|          | 070 | 10       |      | 109                                      | 249     | 329     | 368     | 753     |                           |   | TEMF 050 070 10 101 AS |
|          |     | 15       |      | 178                                      | 405     | 535     | 597     | 1214    |                           |   | TEMF 050 070 15 101 AS |
|          |     | 20       |      | 250                                      | 567     | 748     | 835     | 1698    |                           |   | TEMF 050 070 20 101 AS |
|          | 080 | 10       |      | 124                                      | 285     | 376     | 421     | 861     |                           |   | TEMF 050 080 10 101 AS |
|          |     | 15       |      | 204                                      | 463     | 611     | 682     | 1387    |                           |   | TEMF 050 080 15 101 AS |
|          |     | 20       |      | 285                                      | 647     | 854     | 954     | 1940    |                           |   | TEMF 050 080 20 101 AS |
|          | 090 | 10       |      | 140                                      | 320     | 423     | 473     | 968     |                           |   | TEMF 050 090 10 101 AS |
|          |     | 15       |      | 229                                      | 521     | 687     | 768     | 1561    |                           |   | TEMF 050 090 15 101 AS |
|          |     | 20       |      | 321                                      | 729     | 961     | 1074    | 2183    |                           |   | TEMF 050 090 20 101 AS |
|          | 100 | 10       |      | 156                                      | 356     | 471     | 526     | 1076    |                           |   | TEMF 050 100 10 101 AS |
|          |     | 15       |      | 255                                      | 579     | 764     | 853     | 1734    |                           |   | TEMF 050 100 15 101 AS |
|          |     | 20       |      | 356                                      | 809     | 1068    | 1193    | 2425    |                           |   | TEMF 050 100 20 101 AS |
|          | 110 | 10       |      | 171                                      | 391     | 518     | 579     | 1184    |                           |   | TEMF 050 110 10 101 AS |
|          |     | 15       |      | 280                                      | 636     | 840     | 938     | 1907    |                           |   | TEMF 050 110 15 101 AS |
|          |     | 20       |      | 392                                      | 890     | 1175    | 1312    | 2668    |                           |   | TEMF 050 110 20 101 AS |
|          | 120 | 10       |      | 187                                      | 427     | 565     | 631     | 1291    |                           |   | TEMF 050 120 10 101 AS |
|          |     | 15       |      | 306                                      | 694     | 917     | 1023    | 2081    |                           |   | TEMF 050 120 15 101 AS |
|          |     | 20       |      | 428                                      | 971     | 1282    | 1431    | 2910    |                           |   | TEMF 050 120 20 101 AS |
|          | 140 | 10       |      | 218                                      | 498     | 659     | 736     | 1506    |                           |   | TEMF 050 140 10 101 AS |
|          |     | 15       |      | 357                                      | 810     | 1069    | 1194    | 2428    |                           |   | TEMF 050 140 15 101 AS |
|          |     | 20       |      | 499                                      | 1133    | 1495    | 1670    | 3395    |                           |   | TEMF 050 140 20 101 AS |
|          | 160 | 10       |      | 249                                      | 569     | 753     | 842     | 1722    |                           |   | TEMF 050 160 10 101 AS |
|          |     | 15       |      | 408                                      | 926     | 1222    | 1364    | 2774    |                           |   | TEMF 050 160 15 101 AS |
|          |     | 20       |      | 570                                      | 1295    | 1709    | 1908    | 3880    |                           |   | TEMF 050 160 20 101 AS |
|          | 180 | 10       |      | 280                                      | 640     | 847     | 947     | 1937    |                           |   | TEMF 050 180 10 101 AS |
|          |     | 15       |      | 459                                      | 1042    | 1375    | 1535    | 3121    |                           |   | TEMF 050 180 15 101 AS |
|          |     | 20       |      | 642                                      | 1457    | 1922    | 2147    | 4365    |                           |   | TEMF 050 180 20 101 AS |
|          | 200 | 10       |      | 311                                      | 711     | 941     | 1052    | 2152    |                           |   | TEMF 050 200 10 101 AS |
|          |     | 15       |      | 510                                      | 1157    | 1527    | 1706    | 3468    |                           |   | TEMF 050 200 15 101 AS |
|          |     | 20       |      | 713                                      | 1619    | 2136    | 2385    | 4850    |                           |   | TEMF 050 200 20 101 AS |
|          | 220 | 10       |      | 342                                      | 782     | 1035    | 1157    | 2367    |                           |   | TEMF 050 220 10 101 AS |
|          |     | 15       |      | 561                                      | 1273    | 1680    | 1876    | 3815    |                           |   | TEMF 050 220 15 101 AS |
|          |     | 20       |      | 784                                      | 1780    | 2350    | 2624    | 5335    |                           |   | TEMF 050 220 20 101 AS |
|          | 240 | 10       |      | 373                                      | 853     | 1129    | 1262    | 2582    |                           |   | TEMF 050 240 10 101 AS |
|          |     | 15       |      | 612                                      | 1389    | 1833    | 2047    | 4162    |                           |   | TEMF 050 240 15 101 AS |
|          |     | 20       |      | 855                                      | 1942    | 2563    | 2862    | 5820    |                           |   | TEMF 050 240 20 101 AS |
|          | 260 | 10       |      | 404                                      | 925     | 1223    | 1368    | 2798    |                           |   | TEMF 050 260 10 101 AS |
|          |     | 15       |      | 663                                      | 1504    | 1985    | 2217    | 4508    |                           |   | TEMF 050 260 15 101 AS |
|          |     | 20       |      | 927                                      | 2104    | 2777    | 3101    | 6305    |                           |   | TEMF 050 260 20 101 AS |
|          | 280 | 10       |      | 436                                      | 996     | 1318    | 1473    | 3013    |                           |   | TEMF 050 280 10 101 AS |
|          |     | 15       |      | 714                                      | 1620    | 2138    | 2388    | 4855    |                           |   | TEMF 050 280 15 101 AS |
|          |     | 20       |      | 998                                      | 2266    | 2990    | 3339    | 6790    |                           |   | TEMF 050 280 20 101 AS |
|          | 300 | 10       |      | 467                                      | 1067    | 1412    | 1578    | 3228    |                           |   | TEMF 050 300 10 101 AS |
|          |     | 15       |      | 765                                      | 1736    | 2291    | 2558    | 5202    |                           |   | TEMF 050 300 15 101 AS |
|          |     | 20       |      | 1069                                     | 2428    | 3204    | 3578    | 7275    |                           |   | TEMF 050 300 20 101 AS |

Emisión EN442 a 20°C

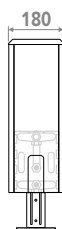
## TEMPO DE-PIE

## ALTURA 050 (TWIN)

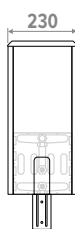
Tipo 11



Tipo 16



Tipo 21



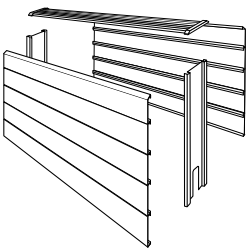
| ALTURA<br>H<br>cm | LONGITUD<br>L<br>cm | TIPO<br>T | CALEFACCIÓN<br>Temperatura ambiente 20°C |                 |                 |                 |                 | PESO<br>kg | CONTENIDO DE AGUA<br>L | CÓDIGO PEDIDO          |
|-------------------|---------------------|-----------|------------------------------------------|-----------------|-----------------|-----------------|-----------------|------------|------------------------|------------------------|
|                   |                     |           | 35/30<br>Wattos                          | 45/40<br>Wattos | 50/45<br>Wattos | 55/45<br>Wattos | 75/65<br>Wattos |            |                        |                        |
| TEMF 050          | 050                 | 11        | 93                                       | 220             | 294             | 330             | 693             |            |                        | TEMF 050 050 11 101 AS |
|                   |                     | 16        | 123                                      | 294             | 396             | 445             | 949             |            |                        | TEMF 050 050 16 101 AS |
|                   |                     | 21        | 162                                      | 394             | 532             | 599             | 1291            |            |                        | TEMF 050 050 21 101 AS |
|                   | 060                 | 11        | 112                                      | 264             | 352             | 396             | 832             |            |                        | TEMF 050 060 11 101 AS |
|                   |                     | 16        | 147                                      | 353             | 475             | 534             | 1139            |            |                        | TEMF 050 060 16 101 AS |
|                   |                     | 21        | 195                                      | 473             | 638             | 719             | 1549            |            |                        | TEMF 050 060 21 101 AS |
|                   | 070                 | 11        | 130                                      | 307             | 411             | 461             | 970             |            |                        | TEMF 050 070 11 101 AS |
|                   |                     | 16        | 172                                      | 412             | 554             | 624             | 1329            |            |                        | TEMF 050 070 16 101 AS |
|                   |                     | 21        | 227                                      | 551             | 744             | 839             | 1807            |            |                        | TEMF 050 070 21 101 AS |
|                   | 080                 | 11        | 149                                      | 351             | 470             | 527             | 1109            |            |                        | TEMF 050 080 11 101 AS |
|                   |                     | 16        | 196                                      | 471             | 633             | 712             | 1518            |            |                        | TEMF 050 080 16 101 AS |
|                   |                     | 21        | 260                                      | 630             | 851             | 959             | 2066            |            |                        | TEMF 050 080 21 101 AS |
|                   | 090                 | 11        | 167                                      | 395             | 528             | 593             | 1247            |            |                        | TEMF 050 090 11 101 AS |
|                   |                     | 16        | 221                                      | 530             | 712             | 801             | 1708            |            |                        | TEMF 050 090 16 101 AS |
|                   |                     | 21        | 292                                      | 709             | 957             | 1079            | 2324            |            |                        | TEMF 050 090 21 101 AS |
|                   | 100                 | 11        | 186                                      | 439             | 587             | 659             | 1386            |            |                        | TEMF 050 100 11 101 AS |
|                   |                     | 16        | 246                                      | 589             | 792             | 891             | 1898            |            |                        | TEMF 050 100 16 101 AS |
|                   |                     | 21        | 325                                      | 788             | 1064            | 1198            | 2582            |            |                        | TEMF 050 100 21 101 AS |
|                   | 110                 | 11        | 205                                      | 483             | 646             | 725             | 1525            |            |                        | TEMF 050 110 11 101 AS |
|                   |                     | 16        | 270                                      | 648             | 871             | 980             | 2088            |            |                        | TEMF 050 110 16 101 AS |
|                   |                     | 21        | 357                                      | 867             | 1170            | 1318            | 2840            |            |                        | TEMF 050 110 21 101 AS |
|                   | 120                 | 11        | 223                                      | 527             | 705             | 791             | 1663            |            |                        | TEMF 050 120 11 101 AS |
|                   |                     | 16        | 295                                      | 707             | 950             | 1069            | 2278            |            |                        | TEMF 050 120 16 101 AS |
|                   |                     | 21        | 389                                      | 945             | 1276            | 1438            | 3098            |            |                        | TEMF 050 120 21 101 AS |
|                   | 140                 | 11        | 260                                      | 615             | 822             | 923             | 1940            |            |                        | TEMF 050 140 11 101 AS |
|                   |                     | 16        | 344                                      | 825             | 1108            | 1247            | 2657            |            |                        | TEMF 050 140 16 101 AS |
|                   |                     | 21        | 454                                      | 1103            | 1489            | 1678            | 3615            |            |                        | TEMF 050 140 21 101 AS |
|                   | 160                 | 11        | 298                                      | 703             | 940             | 1055            | 2218            |            |                        | TEMF 050 160 11 101 AS |
|                   |                     | 16        | 393                                      | 942             | 1267            | 1425            | 3037            |            |                        | TEMF 050 160 16 101 AS |
|                   |                     | 21        | 519                                      | 1261            | 1702            | 1917            | 4131            |            |                        | TEMF 050 160 21 101 AS |
|                   | 180                 | 11        | 335                                      | 790             | 1057            | 1187            | 2495            |            |                        | TEMF 050 180 11 101 AS |
|                   |                     | 16        | 442                                      | 1060            | 1425            | 1603            | 3416            |            |                        | TEMF 050 180 16 101 AS |
|                   |                     | 21        | 584                                      | 1418            | 1915            | 2157            | 4648            |            |                        | TEMF 050 180 21 101 AS |
|                   | 200                 | 11        | 372                                      | 878             | 1174            | 1318            | 2772            |            |                        | TEMF 050 200 11 101 AS |
|                   |                     | 16        | 491                                      | 1178            | 1583            | 1781            | 3796            |            |                        | TEMF 050 200 16 101 AS |
|                   |                     | 21        | 649                                      | 1576            | 2127            | 2397            | 5164            |            |                        | TEMF 050 200 21 101 AS |
|                   | 220                 | 11        | 409                                      | 966             | 1292            | 1450            | 3049            |            |                        | TEMF 050 220 11 101 AS |
|                   |                     | 16        | 541                                      | 1296            | 1742            | 1959            | 4176            |            |                        | TEMF 050 220 16 101 AS |
|                   |                     | 21        | 714                                      | 1733            | 2340            | 2636            | 5680            |            |                        | TEMF 050 220 21 101 AS |
|                   | 240                 | 11        | 446                                      | 1054            | 1409            | 1582            | 3326            |            |                        | TEMF 050 240 11 101 AS |
|                   |                     | 16        | 590                                      | 1413            | 1900            | 2137            | 4555            |            |                        | TEMF 050 240 16 101 AS |
|                   |                     | 21        | 779                                      | 1891            | 2553            | 2876            | 6197            |            |                        | TEMF 050 240 21 101 AS |
|                   | 260                 | 11        | 484                                      | 1142            | 1527            | 1714            | 3604            |            |                        | TEMF 050 260 11 101 AS |
|                   |                     | 16        | 639                                      | 1531            | 2058            | 2316            | 4935            |            |                        | TEMF 050 260 16 101 AS |
|                   |                     | 21        | 844                                      | 2048            | 2765            | 3116            | 6713            |            |                        | TEMF 050 260 21 101 AS |
|                   | 280                 | 11        | 521                                      | 1230            | 1644            | 1846            | 3881            |            |                        | TEMF 050 280 11 101 AS |
|                   |                     | 16        | 688                                      | 1649            | 2217            | 2493            | 5314            |            |                        | TEMF 050 280 16 101 AS |
|                   |                     | 21        | 909                                      | 2206            | 2978            | 3356            | 7230            |            |                        | TEMF 050 280 21 101 AS |
|                   | 300                 | 11        | 558                                      | 1317            | 1762            | 1977            | 4158            |            |                        | TEMF 050 300 11 101 AS |
|                   |                     | 16        | 737                                      | 1767            | 2375            | 2672            | 5694            |            |                        | TEMF 050 300 16 101 AS |
|                   |                     | 21        | 974                                      | 2364            | 3191            | 3595            | 7746            |            |                        | TEMF 050 300 21 101 AS |

Emisión EN442 a 20°C

# TEMPO DE-PIE

# COMPONENTES

## CARCASA



### SUMINISTRO ESTÁNDAR:

- rejilla
- 2 paneles
- lado abierto y cerrado
- color 101

### CÓDIGO PEDIDO

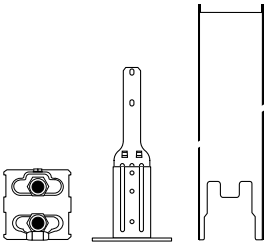
CTEF 020 040 10 101

                    Tipo

                    Longitud

                    Altura

## SET DE CALEFACCIÓN



### SUMINISTRO ESTÁNDAR:

- intercambiador de calor
- soportes
- purgador acodado (para tipos 10, 15 y 20) o purgador extendido (para tipos 11, 16 y 21) 1/8"
- pies estándar
- tapón de vaciado 1/2"

### CÓDIGO PEDIDO

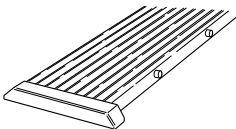
HTEF 020 040 10

                    Tipo

                    Longitud

                    Altura

## REJILLA



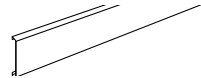
### CÓDIGO PEDIDO

5603 000 040 10 101

                    Tipo

                    Longitud

## PANEL FRONTAL SUELTO (Altura 10 cm, idéntica para todas las carcassas)



### CÓDIGO PEDIDO

5504 000 050 00 101

                    Longitud

## PANEL SUPERIOR SUELTO (Altura 10 cm, idéntica para todas las carcassas)

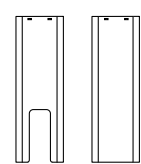


### CÓDIGO PEDIDO

5505 000 050 00 101

                    Longitud

## LATERALES (por par open/dicht)



### CÓDIGO PEDIDO

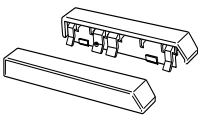
5754 020 000 10 XXX

                    Color

                    Tipo

                    Altura

## PIEZA ESQUINA SINTÉTICA (POR PAR IZQUIERDA / DERECHA)

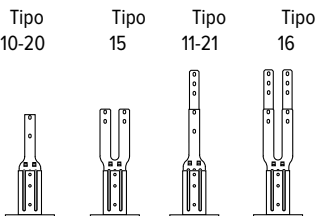


### CÓDIGO PEDIDO

5604 000 000 10

                    Tipo

## PIE AJUSTABLE ESTÁNDAR



Altura regulable de 135 mm a 185 mm

Número de pies para el intercambiador de calor (1 por soporte)

- para longitudes desde 050 hasta 110 cm: 2 unidades
- para longitudes desde 120 hasta 220 cm: 3 unidades
- para longitudes desde 240 hasta 280 cm: 4 unidades

Los pies (gris neutro estándar) también están disponibles en el mismo color que la carcasa. Para ello, repetir el código de color de la carcasa después del código del pie.

ej.: 5201 000 000 10 xxx

### CÓDIGO PEDIDO

5201 000 000 10

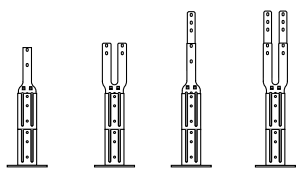
                    Tipo

## TEMPO DE-PIE

## COMPONENTES

### PIE AJUSTABLE EN LONGITUD PARA INSTALACIÓN EN HORMIGÓN EN OBRA

Tipo 10-20      Tipo 15      Tipo 11-21      Tipo 16



Altura regulable de 255 mm a 290 mm

Número de pies para el intercambiador de calor (1 por soporte)

- para longitudes desde 050 hasta 110 cm: 2 unidades
- para longitudes desde 120 hasta 220 cm: 3 unidades
- para longitudes desde 240 hasta 280 cm: 4 unidades

Pies en el color de la carcasa.

Los pies (gris neutro estándar) también están disponibles en el mismo color que la carcasa. Para ello, repetir el código de color de la carcasa después del código del pie.

ej.: 5202 000 000 10 xxx

#### CÓDIGO PEDIDO

5202 000 000 10  
Tipo

### SOPORTES (por unidad)



Cantidad de soportes por intercambiador de calor

- para longitudes desde 050 hasta 110 cm: 2 unidades
- para longitudes desde 120 hasta 220 cm: 3 unidades
- para longitudes desde 240 hasta 280 cm: 4 unidades

#### CÓDIGO PEDIDO

5151 020 000 10  
Tipo de intercambiador de calor  
Altura

### INTERCAMBIADOR DE CALOR



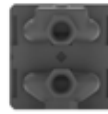
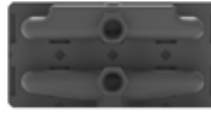
#### SUMINISTRO ESTÁNDAR:

- intercambiador de calor
- purgador acodado y tapón de vaciado incluidos

#### CÓDIGO PEDIDO

5003 000 050 06  
Tipo de intercambiador de calor  
Longitud

### Resumen de los tipos de intercambiador de calor

|            | Tempo Tipo 10                                                                                  | Tempo Tipo 11                                                                                  | Tempo Tipo 15                                                                                  | Tempo Tipo 16                                                                                   | Tempo Tipo 20                                                                                    | Tempo Tipo 21                                                                                    |
|------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| ALTURA 020 | <br>Tipo 10 |                                                                                                | <br>Tipo 15 |                                                                                                 | <br>Tipo 20 |                                                                                                  |
| ALTURA 035 | <br>Tipo 10 | <br>Tipo 11 | <br>Tipo 15 | <br>Tipo 16 | <br>Tipo 20 | <br>Tipo 21 |

### PURGADOR EXTENDIDO DE 1/8"



|               |      | H20 |    |    | H35 |    |    |    |    |    |
|---------------|------|-----|----|----|-----|----|----|----|----|----|
|               | Tipo | 10  | 15 | 20 | 10  | 11 | 15 | 16 | 20 | 21 |
| Código pedido |      |     |    |    |     |    |    |    |    |    |
| 50900114      | 078  | ✓   | ✓  | ✓  | -   | ✓  | -  | ✓  | -  | ✓  |
| 50900114      | 178  | -   | -  | -  | ✓   | -  | ✓  | -  | ✓  | -  |
| 50900114      | 278  | -   | -  | -  | -   | -  | -  | -  | -  | -  |
| 50900114      | 378  | -   | -  | -  | -   | -  | -  | -  | -  | -  |
| 50900114      | 528  | -   | -  | -  | -   | -  | -  | -  | -  | -  |
| 50900114      | 728  | -   | -  | -  | -   | -  | -  | -  | -  | -  |

TEMPO DE-PIE

FACTORES DE CORRECCIÓN

Las emisiones indicadas con ΔT 50 (75/65/20) son valores exactos medidos según la EN442. Para el resto de ΔT, esta tabla indica un valor calculado utilizando un factor de corrección medio válido para todas las dimensiones.

En [www.jaga.info/descargas/selection\\_tools/](http://www.jaga.info/descargas/selection_tools/) se pueden descargar herramientas de cálculo con las emisiones exactas. Las herramientas de cálculo online se mantienen siempre actualizadas con los datos más recientes. Por lo tanto, las pequeñas diferencias entre las tablas impresas y las diversas herramientas de cálculo online son completamente normales y se encuentran dentro de los márgenes de tolerancia establecidos por la norma.

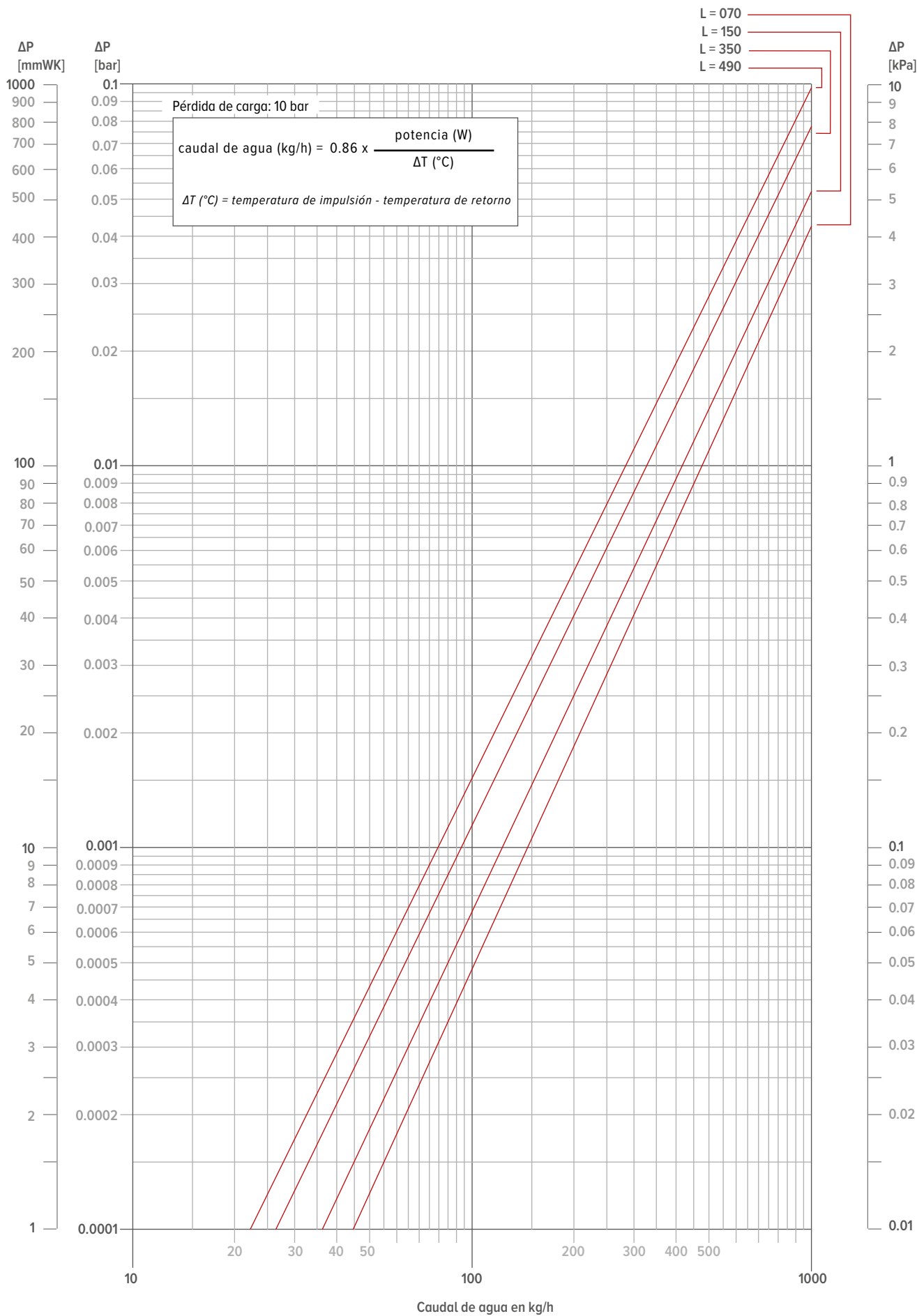
FACTORES DE CORRECCIÓN MEDIOS PARA PRODUCTOS ESTÁTICOS SEGÚN EN442 - 75/65/20°C

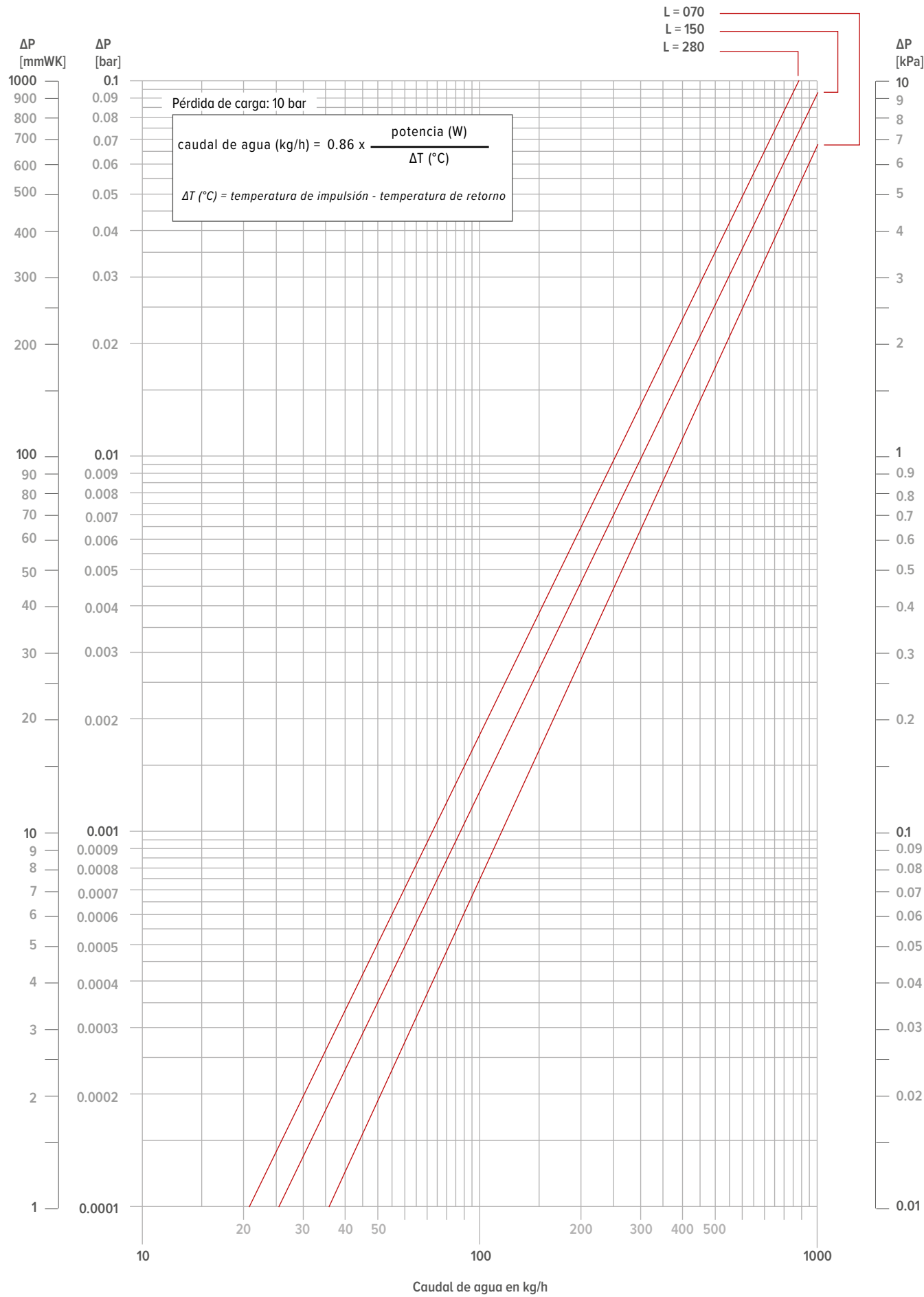
| temperatura ambiente: 20°C |    |      |      |      |      |      |      |      |      | temperatura ambiente: 24°C |    |    |      |      |      |      |      |      |      |      |      |
|----------------------------|----|------|------|------|------|------|------|------|------|----------------------------|----|----|------|------|------|------|------|------|------|------|------|
| Valor-N medio: 1.36        |    |      |      |      |      |      |      |      |      | Valor-N medio: 1.36        |    |    |      |      |      |      |      |      |      |      |      |
|                            | TR | 65   | 60   | 55   | 50   | 45   | 40   | 35   | 30   | 25                         |    | TR | 65   | 60   | 55   | 50   | 45   | 40   | 35   | 30   | 25   |
| TA                         |    |      |      |      |      |      |      |      |      |                            | TA |    |      |      |      |      |      |      |      |      |      |
| 75                         |    | 1.00 | 0.93 | 0.85 | 0.77 | 0.69 | 0.61 | 0.52 | 0.42 | 0.31                       | 75 |    | 0.89 | 0.82 | 0.75 | 0.67 | 0.59 | 0.51 | 0.41 | 0.31 | 0.16 |
| 70                         |    | 0.94 | 0.87 | 0.79 | 0.72 | 0.64 | 0.56 | 0.48 | 0.39 | 0.28                       | 70 |    | 0.83 | 0.76 | 0.69 | 0.62 | 0.54 | 0.47 | 0.38 | 0.28 | 0.14 |
| 65                         |    |      | 0.80 | 0.74 | 0.67 | 0.60 | 0.52 | 0.44 | 0.35 | 0.25                       | 65 |    |      | 0.70 | 0.64 | 0.57 | 0.50 | 0.43 | 0.35 | 0.25 | 0.12 |
| 60                         |    |      |      | 0.68 | 0.61 | 0.55 | 0.48 | 0.40 | 0.32 | 0.23                       | 60 |    |      |      | 0.58 | 0.52 | 0.45 | 0.38 | 0.31 | 0.23 | 0.11 |
| 55                         |    |      |      |      | 0.56 | 0.50 | 0.43 | 0.36 | 0.29 | 0.20                       | 55 |    |      |      |      | 0.47 | 0.41 | 0.34 | 0.28 | 0.20 | 0.09 |
| 50                         |    |      |      |      |      | 0.44 | 0.38 | 0.32 | 0.25 | 0.18                       | 50 |    |      |      |      |      | 0.36 | 0.30 | 0.24 | 0.17 | 0.08 |
| 45                         |    |      |      |      |      |      | 0.34 | 0.28 | 0.22 | 0.15                       | 45 |    |      |      |      |      |      | 0.26 | 0.20 | 0.14 | 0.06 |
| 40                         |    |      |      |      |      |      |      | 0.24 | 0.19 | 0.13                       | 40 |    |      |      |      |      |      |      | 0.17 | 0.12 | 0.05 |
| 35                         |    |      |      |      |      |      |      |      | 0.15 | 0.10                       | 35 |    |      |      |      |      |      |      |      | 0.09 | 0.03 |
| 30                         |    |      |      |      |      |      |      |      |      | 0.07                       | 30 |    |      |      |      |      |      |      |      |      | 0.02 |

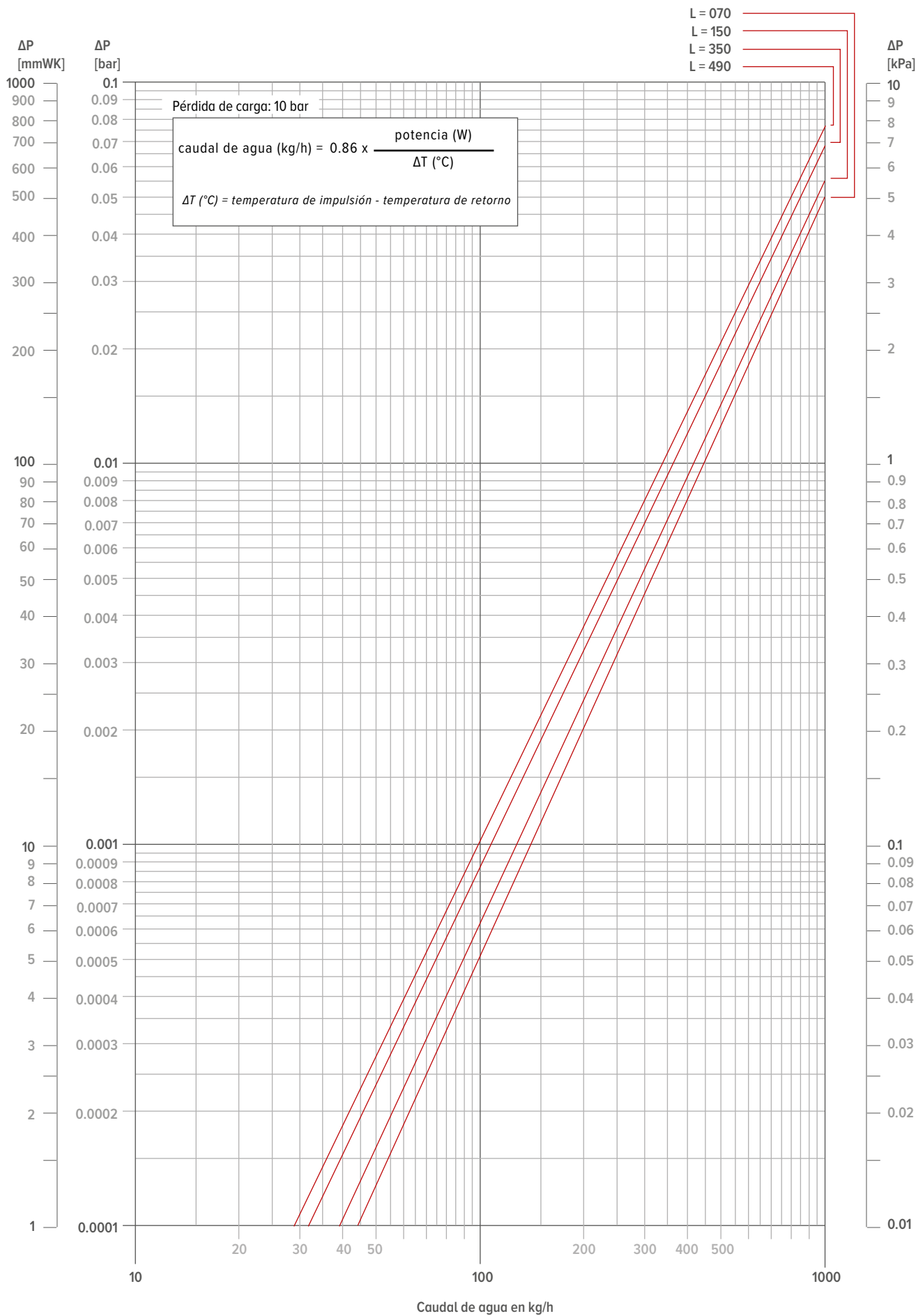
Factores de corrección medios para Strada (sin DBH). Factores de corrección exactos para Strada o Strada Hybrid: ver los Selection tools

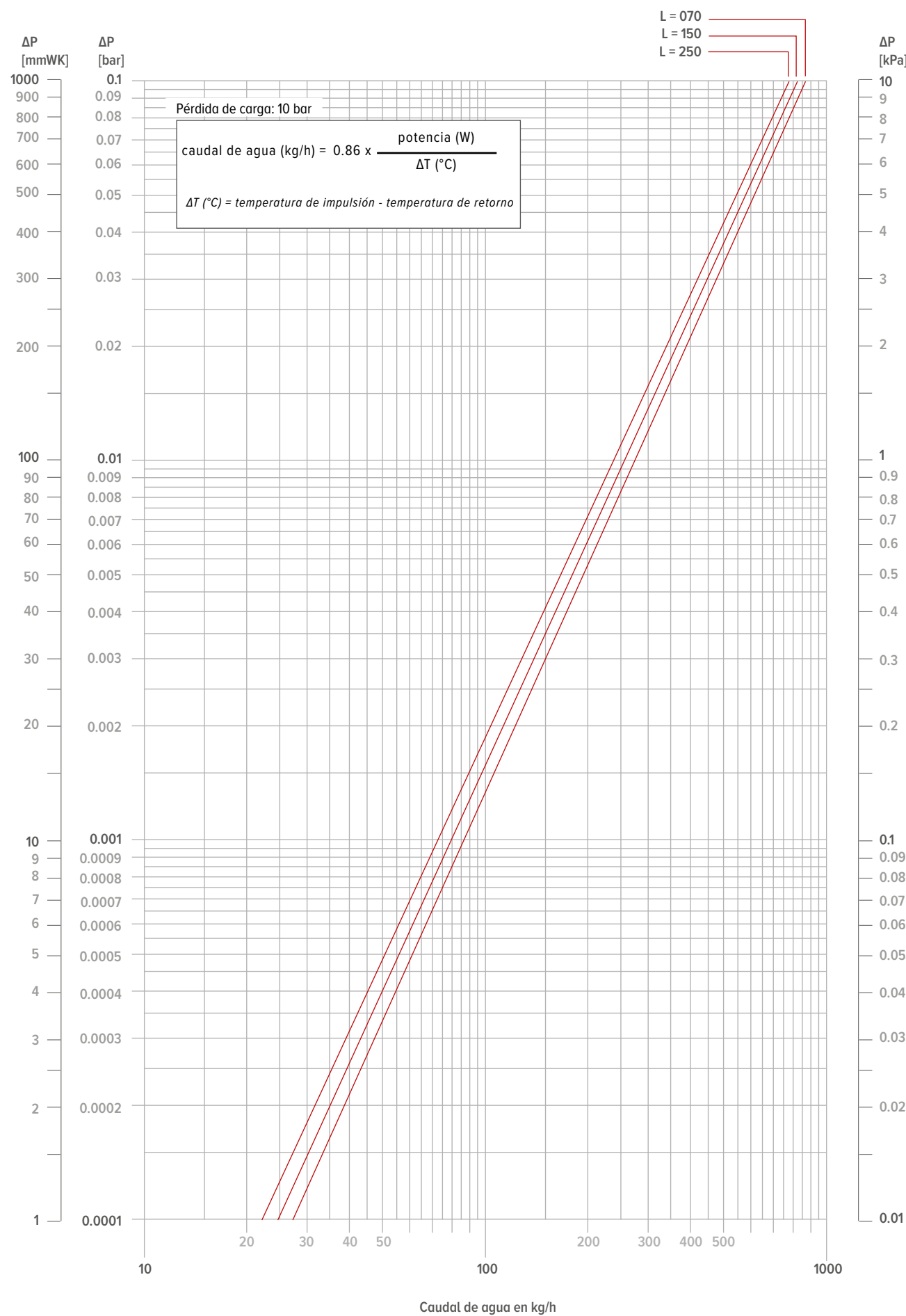
DIRECTRIZ PARA LIMITAR EL RUIDO

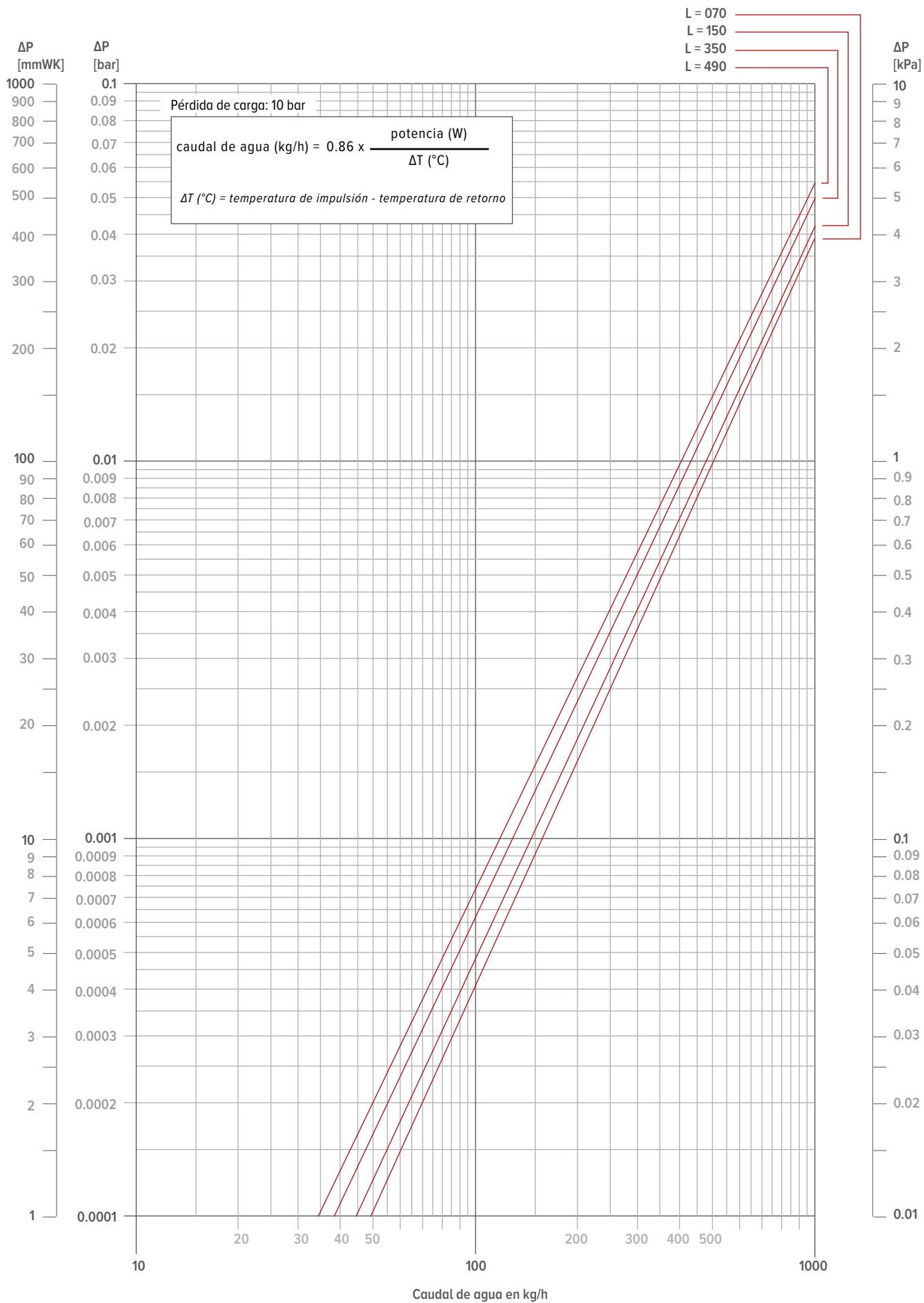
| TUBERÍAS                   |                    |      | Velocidad máxima del agua (EN10255) |                     |      | Potencia máxima a ΔT (°C) (T impulsión - T retorno) |         |         |         |         |         |         |
|----------------------------|--------------------|------|-------------------------------------|---------------------|------|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|
|                            |                    |      |                                     |                     |      | ΔT 30                                               | ΔT 20   | ΔT 10   | ΔT 5    | ΔT 4    | ΔT 3    | ΔT 2    |
|                            |                    |      |                                     |                     |      | Wattios                                             | Wattios | Wattios | Wattios | Wattios | Wattios | Wattios |
| Ø exterior                 | Grosor de la pared |      | contenido de agua por metro         | caudal máx. de agua |      |                                                     |         |         |         |         |         |         |
| mm                         | mm                 |      | l                                   | kg/h                |      |                                                     |         |         |         |         |         |         |
| TUBO GALVANIZADO DIN 2440  |                    |      |                                     |                     |      |                                                     |         |         |         |         |         |         |
| 3/8 DN10 OD                | 17.2               | 2.35 | 0.40                                | 0.12                | 173  | 6028                                                | 4019    | 2009    | 1005    | 804     | 603     | 402     |
| 1/2 DN15 OD                | 21.3               | 2.65 | 0.40                                | 0.20                | 288  | 10046                                               | 6698    | 3349    | 1674    | 1340    | 1005    | 670     |
| 3/4 DN20 OD                | 26.9               | 2.65 | 0.42                                | 0.37                | 559  | 19515                                               | 13010   | 6505    | 3253    | 2602    | 1952    | 1301    |
| 1 DN25 OD                  | 33.7               | 3.25 | 0.49                                | 0.58                | 1023 | 35690                                               | 23793   | 11897   | 5948    | 4759    | 3569    | 2379    |
| 1 1/4 DN32 OD              | 42.4               | 3.25 | 0.60                                | 1.01                | 2182 | 76101                                               | 50734   | 25367   | 12684   | 10147   | 7610    | 5073    |
| 1 1/2 DN40 OD              | 48.3               | 3.25 | 0.66                                | 1.37                | 3255 | 113549                                              | 75700   | 37850   | 18925   | 15140   | 11355   | 7570    |
| 2 DN50 OD                  | 60.3               | 3.65 | 0.80                                | 2.21                | 6365 | 222025                                              | 148017  | 74008   | 37004   | 29603   | 22203   | 14802   |
| TUBO DE COBRE / ACERO FINO |                    |      |                                     |                     |      |                                                     |         |         |         |         |         |         |
| 10/1                       | 10                 | 1.00 | 0.40                                | 0.05                | 72   | 2512                                                | 1674    | 837     | 419     | 335     | 251     | 167     |
| 12/1                       | 12                 | 1.00 | 0.40                                | 0.08                | 115  | 4019                                                | 2679    | 1340    | 670     | 536     | 402     | 268     |
| 14/1                       | 14                 | 1.00 | 0.40                                | 0.11                | 158  | 5526                                                | 3684    | 1842    | 921     | 737     | 553     | 368     |
| 15/1                       | 15                 | 1.00 | 0.40                                | 0.13                | 187  | 6530                                                | 4353    | 2177    | 1088    | 871     | 653     | 435     |
| 16/1                       | 16                 | 1.00 | 0.40                                | 0.15                | 216  | 7535                                                | 5023    | 2512    | 1256    | 1005    | 753     | 502     |
| 18/1                       | 18                 | 1.00 | 0.40                                | 0.20                | 288  | 10046                                               | 6698    | 3349    | 1674    | 1340    | 1005    | 670     |
| 22/1                       | 22                 | 1.00 | 0.40                                | 0.31                | 446  | 15572                                               | 10381   | 5191    | 2595    | 2076    | 1557    | 1038    |
| 28/1                       | 28                 | 1.00 | 0.47                                | 0.53                | 904  | 31522                                               | 21014   | 10507   | 5254    | 4203    | 3152    | 2101    |
| PER/ALU                    |                    |      |                                     |                     |      |                                                     |         |         |         |         |         |         |
| 12/2                       | 12                 | 2.00 | 0.40                                | 0.05                | 72   | 2512                                                | 1674    | 837     | 419     | 335     | 251     | 167     |
| 14/2                       | 14                 | 2.00 | 0.40                                | 0.08                | 115  | 4019                                                | 2679    | 1340    | 670     | 536     | 402     | 268     |
| 16/1.5                     | 16                 | 1.50 | 0.40                                | 0.13                | 187  | 6530                                                | 4353    | 2177    | 1088    | 871     | 653     | 435     |
| 16/2                       | 16                 | 2.00 | 0.40                                | 0.11                | 158  | 5526                                                | 3684    | 1842    | 921     | 737     | 553     | 368     |
| 17/2                       | 17                 | 2.00 | 0.40                                | 0.13                | 187  | 6530                                                | 4353    | 2177    | 1088    | 871     | 653     | 435     |
| 18/2                       | 18                 | 2.00 | 0.40                                | 0.15                | 216  | 7535                                                | 5023    | 2512    | 1256    | 1005    | 753     | 502     |
| 20/2                       | 20                 | 2.00 | 0.40                                | 0.20                | 288  | 10046                                               | 6698    | 3349    | 1674    | 1340    | 1005    | 670     |
| 26/3                       | 26                 | 3.00 | 0.40                                | 0.31                | 446  | 15572                                               | 10381   | 5191    | 2595    | 2076    | 1557    | 1038    |
| 32/3                       | 32                 | 3.00 | 0.47                                | 0.53                | 904  | 31522                                               | 21014   | 10507   | 5254    | 4203    | 3152    | 2101    |
| 40/3.5                     | 40                 | 3.50 | 0.56                                | 0.86                | 1726 | 60220                                               | 40147   | 20073   | 10037   | 8029    | 6022    | 4015    |
| 50/4.25                    | 50                 | 4.25 | 0.66                                | 1.35                | 3206 | 111824                                              | 74549   | 37275   | 18637   | 14910   | 11182   | 7455    |
| 63/5                       | 63                 | 5.00 | 0.80                                | 2.21                | 6346 | 221359                                              | 147573  | 73786   | 36893   | 29515   | 22136   | 14757   |

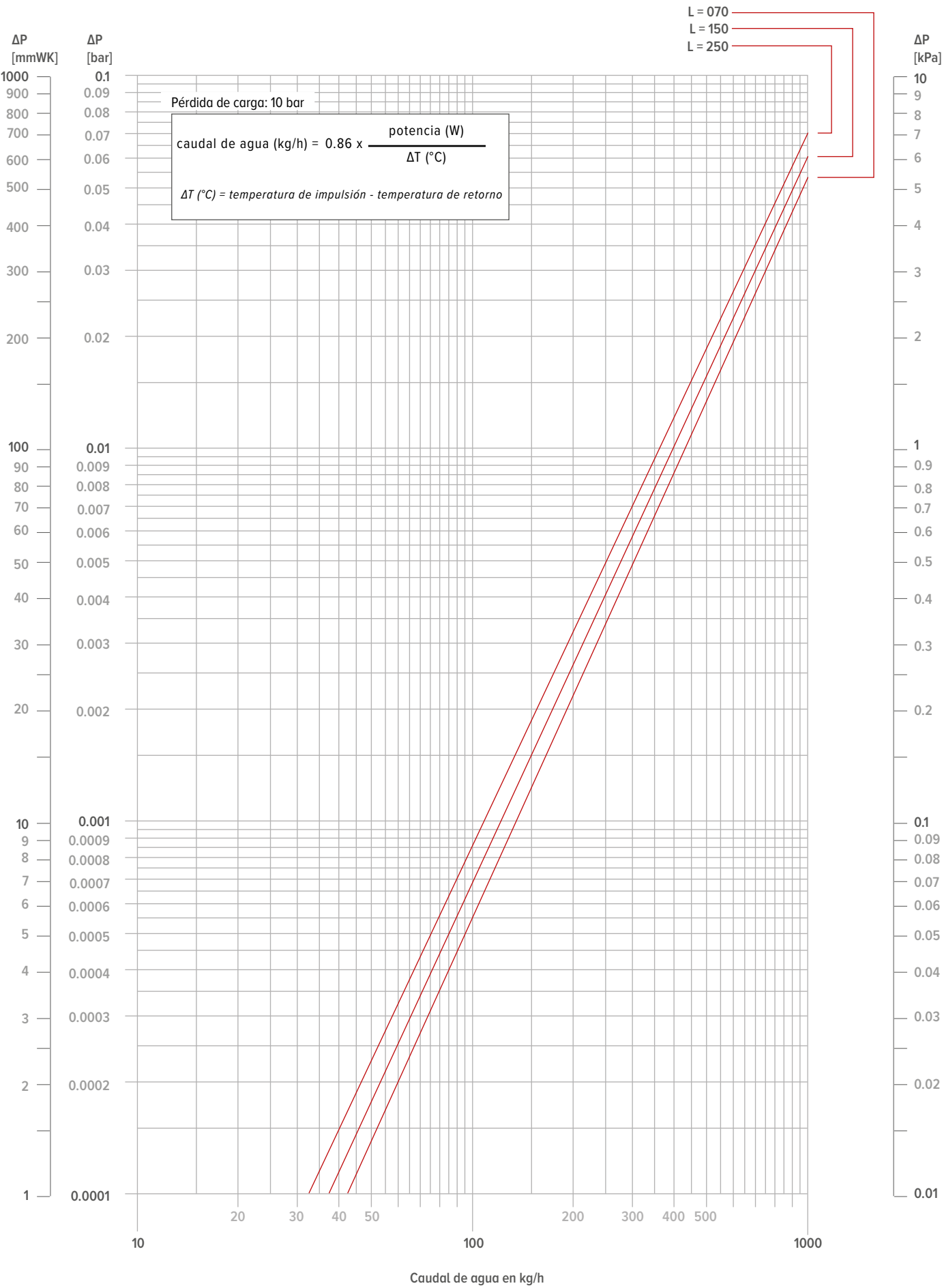
















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