

Technical catalogue

07/2022

trench convectors **Aquilo**


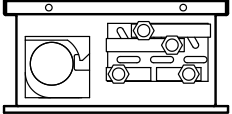

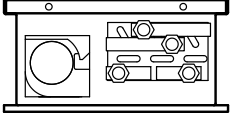
trench convectors

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Range overview

| | | types |
|--|--|-------|
| | <p>Aquilo FMS (no fan) 2 connections height [mm]: 90, 110, 140, 190 width [mm]: 200, 250, 300, 340, 420 overall length [mm]: 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1800, 2000, 2200, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3200, 3400, 3600</p> | |
| | <p>Aquilo F1S (with a 24 V fan) 2 connections height [mm]: 75 width [mm]: 170, 200, 230 height [mm]: 110 width [mm]: 230, 250 overall length [mm]: 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1800, 2000, 2200, 2400, 2500, 2600, 2800, 3000</p> | |
| | <p>Aquilo F2C (heating or cooling, with a 24 V fan) 2 connections height [mm]: 110 width [mm]: 230 height [mm]: 170 width [mm]: 340 overall length [mm]: 850, 1200, 1600, 2100, 2400, 2700</p> | |
| | <p>Aquilo F2V (heating or cooling, with a 230 V fan) 2 connections height [mm]: 170 width [mm]: 340 overall length [mm]: 850, 1200, 1600, 2100, 2400, 2700</p> | |

Range overview

| | | types |
|--|--|--|
|  | <p>Aquilo F4C (heating and cooling, with a 24 V fan)</p> <p>2 connections - heating circuit 2 connections - cooling circuit</p> <p>height [mm]: 170 width [mm]: 340 overall length [mm]: 850, 1200, 1600, 2100, 2400, 2700</p> |  |
|  | <p>Aquilo F4V (heating and cooling, with a 230 V fan)</p> <p>2 connections - heating circuit 2 connections - cooling circuit</p> <p>height [mm]: 170 width [mm]: 340 overall length [mm]: 850, 1200, 1600, 2100, 2400, 2700</p> |  |



AQUILO FMS (NO FAN)

Aquilo FMS trench convectors are specially designed for in-floor installation. The heating element is a copper-aluminum heat exchanger, painted black and mounted inside a double-side galvanized steel duct which is also painted black on the inside. On the top the convector is protected by a range of decorative grilles made of a choice of different materials. The grille is ordered separately. The heat exchanger is connected to the heating system by two G ½" internal thread pipes.

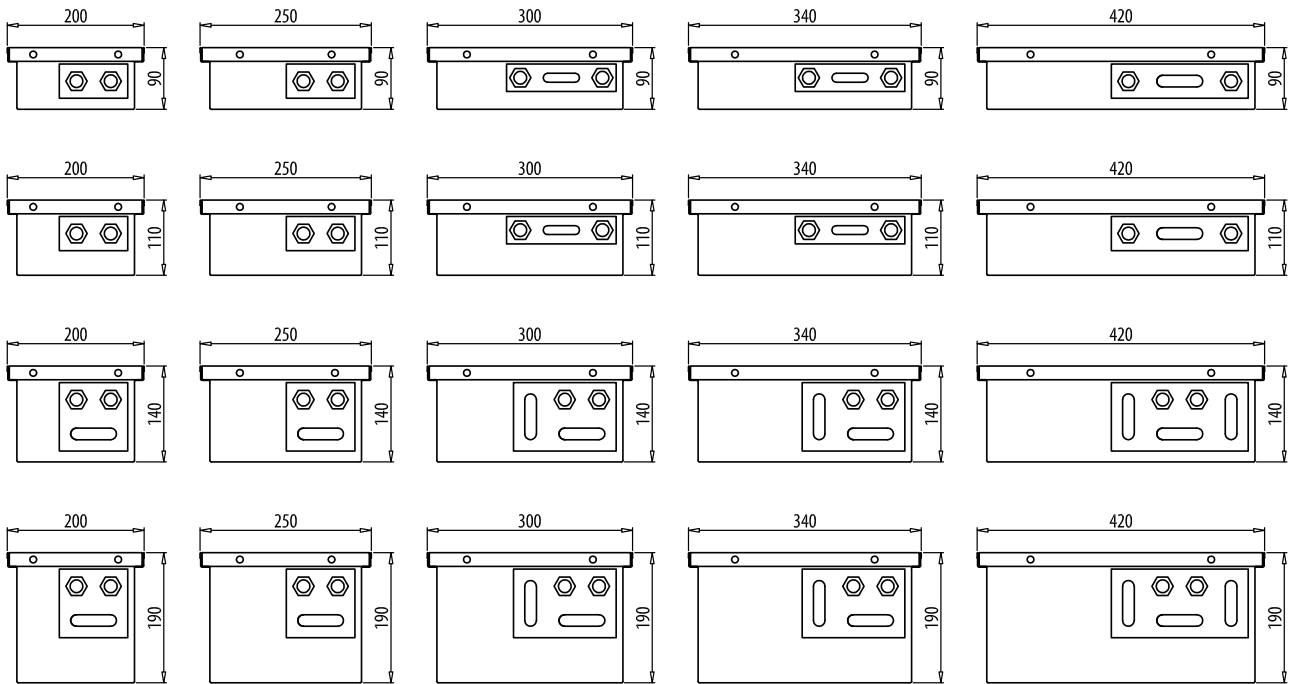
Technical specification

- Width : 200, 250, 300, 340, 420 mm
- Length : from 700 up to 3600 mm
- Height: 90, 110, 140, 190 mm
- Heat exchanger : aluminum finned copper
- Duct design : Double-side galvanized steel, black RAL 9005 dry powder-coated on the inside
option: stainless steel
- Grille material : wood (oak, beech)
Duralumin in a choice of colours: natural, light brown, dark brown or black
stainless steel
- Connections: 2 x G ½" – internal thread
- Operating pressure : 10 bar
- Max. temperature : 110 °C
- Test pressure : 13 bar

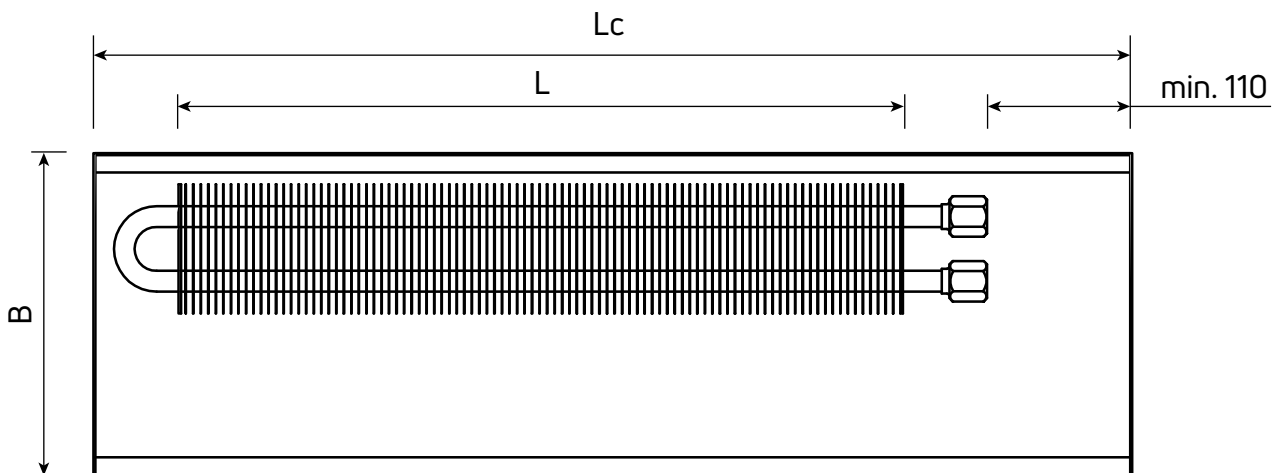


- Heat exchanger accessories : manual air vent, 2 side covers, 10 cm long stainless steel flexible connector kit with a G ½" thread
- Duct accessories : leveling bolts M8x30 mm with internal hexagon (for duct length up to 2.5 m – 4 pcs., over 2.5 m – 6 pcs.), 4 surface mounting elements with duct fixing screws, breakable pass for the heating system pipes + 2 rubber passes for domestic electric circuit connection, covers for masking heat exchanger connections, protecting the heat exchanger and duct against damage or scuffing during installation and installation spacers to be used when pouring concrete over the tub and laying the finished floor to avoid deformation of the tub

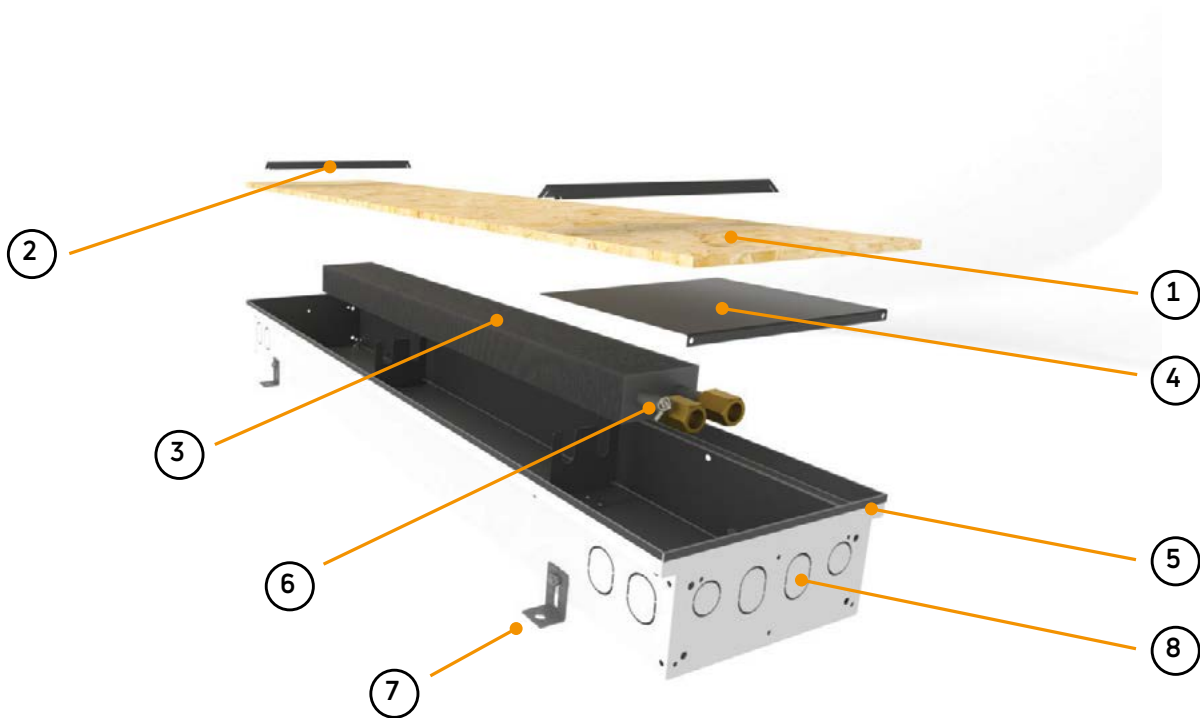
side views



top view - examples



Lc - convector's overall length
L - exchanger's length
B - width



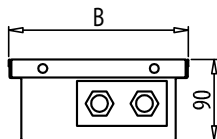
- 1 - Protective cover
- 2 - Braces to prevent distortion during floor laying
- 3 - Heat exchanger (copper pipes, aluminum fins, coated with black varnish).
- 4 - Cover sheet to hide valves and connections.

- 5 - Duct (double-side galvanized, and varnished).
- 6 - Air vent.
- 7 - Surface mounting brackets.
- 8 - Knock-outs for pipe connections.

weight and water content

| width - B | [mm] | 200 | | | | 250 | | | | 300 | | | | 340 | | | | 420 | | | |
|---------------|--------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|------|-----|-----|------|-----|------|------|------|------|
| height | [mm] | 90 | 110 | 140 | 190 | 90 | 110 | 140 | 190 | 90 | 110 | 140 | 190 | 90 | 110 | 140 | 190 | 90 | 110 | 140 | 190 |
| weight | [kg/m] | 6.7 | 7 | 8.8 | 9.5 | 7.3 | 7.7 | 9.5 | 10.2 | 8.8 | 9 | 11.7 | 12.3 | 9.3 | 9.7 | 12.2 | 13 | 11.3 | 11.5 | 14.8 | 15.5 |
| water content | [L/m] | 0.3 | 0.3 | 0.6 | 0.6 | 0.3 | 0.3 | 0.6 | 0.6 | 0.3 | 0.3 | 0.9 | 0.9 | 0.3 | 0.3 | 0.9 | 0.9 | 0.6 | 0.6 | 1.2 | 1.2 |

DESCRIPTION - EXAMPLE: **Aquilo FMS 25 150 09 01**



name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

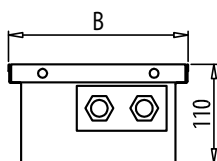


| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | B - width [mm] | | | | |
|------------------------------|--|-------------------|-------------------|--------------------|--------------------|--------------------|
| | | 200 | 250 | 300 | 340 | 420 |
| 700 | 75/65/20 55/45/20 | 110 54 | 137 67 | 176 86 | 194 95 | 228 111 |
| 800 | 75/65/20 55/45/20 | 134 66 | 166 81 | 215 105 | 237 116 | 277 135 |
| 900 | 75/65/20 55/45/20 | 158 77 | 196 96 | 253 124 | 279 136 | 327 160 |
| 1000 | 75/65/20 55/45/20 | 182 89 | 226 111 | 291 142 | 321 157 | 377 184 |
| 1100 | 75/65/20 55/45/20 | 206 101 | 255 125 | 330 161 | 363 178 | 426 208 |
| 1200 | 75/65/20 55/45/20 | 230 112 | 285 139 | 368 180 | 406 199 | 476 233 |
| 1300 | 75/65/20 55/45/20 | 254 124 | 315 154 | 406 199 | 448 219 | 525 257 |
| 1400 | 75/65/20 55/45/20 | 278 136 | 344 168 | 445 218 | 490 240 | 575 281 |
| 1500 | 75/65/20 55/45/20 | 302 148 | 374 183 | 483 236 | 532 260 | 624 305 |
| 1600 | 75/65/20 55/45/20 | 326 159 | 404 198 | 521 255 | 575 281 | 674 330 |
| 1800 | 75/65/20 55/45/20 | 374 183 | 463 226 | 598 292 | 659 322 | 773 378 |
| 2000 | 75/65/20 55/45/20 | 422 206 | 523 256 | 675 330 | 744 364 | 872 426 |
| 2200 | 75/65/20 55/45/20 | 470 230 | 582 285 | 751 367 | 828 405 | 971 475 |
| 2400 | 75/65/20 55/45/20 | 518 253 | 641 313 | 828 405 | 912 446 | 1070 523 |
| 2500 | 75/65/20 55/45/20 | 542 265 | 671 328 | 866 423 | 955 467 | 1120 548 |
| 2600 | 75/65/20 55/45/20 | 566 277 | 701 343 | 905 443 | 997 488 | 1169 572 |
| 2700 | 75/65/20 55/45/20 | 590 289 | 730 357 | 943 461 | 1039 508 | 1219 596 |
| 2800 | 75/65/20 55/45/20 | 614 300 | 760 372 | 981 480 | 1081 529 | 1268 620 |
| 2900 | 75/65/20 55/45/20 | 638 312 | 790 386 | 1019 498 | 1124 550 | 1318 645 |
| 3000 | 75/65/20 55/45/20 | 662 324 | 820 401 | 1058 517 | 1166 570 | 1367 668 |
| 3200 | 75/65/20 55/45/20 | 710 347 | 879 430 | 1134 555 | 1250 611 | 1466 717 |
| 3400 | 75/65/20 55/45/20 | 758 371 | 938 459 | 1211 592 | 1335 653 | 1565 765 |
| 3600 | 75/65/20 55/45/20 | 806 394 | 998 488 | 1288 630 | 1419 694 | 1665 814 |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

All Aquilo convectors available on request.

(no fan) - height 110 mm



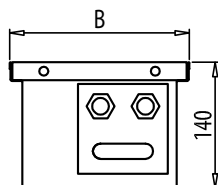
DESCRIPTION - EXAMPLE : **Aquilo FMS 25 150 11 01**

name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | B - width [mm] | | | | |
|------------------------------|---------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| | | 200 | 250 | 300 | 340 | 420 |
| 700 | 75/65/20 55/45/20 | 121 59 | 161 79 | 213 104 | 232 113 | 278 136 |
| 800 | 75/65/20 55/45/20 | 148 72 | 196 96 | 260 127 | 282 138 | 338 165 |
| 900 | 75/65/20 55/45/20 | 174 85 | 231 113 | 306 150 | 332 162 | 399 195 |
| 1000 | 75/65/20 55/45/20 | 200 98 | 266 130 | 353 173 | 383 187 | 459 224 |
| 1100 | 75/65/20 55/45/20 | 227 111 | 301 147 | 399 195 | 433 212 | 520 254 |
| 1200 | 75/65/20 55/45/20 | 253 124 | 336 164 | 445 218 | 483 236 | 580 284 |
| 1300 | 75/65/20 55/45/20 | 280 137 | 372 182 | 492 241 | 534 261 | 640 313 |
| 1400 | 75/65/20 55/45/20 | 306 150 | 407 199 | 538 263 | 584 286 | 701 343 |
| 1500 | 75/65/20 55/45/20 | 332 162 | 442 216 | 584 286 | 635 311 | 761 372 |
| 1600 | 75/65/20 55/45/20 | 359 176 | 477 233 | 631 309 | 685 335 | 822 402 |
| 1800 | 75/65/20 55/45/20 | 411 201 | 547 267 | 724 354 | 786 384 | 942 461 |
| 2000 | 75/65/20 55/45/20 | 464 227 | 617 302 | 816 399 | 886 433 | 1063 520 |
| 2200 | 75/65/20 55/45/20 | 517 253 | 687 336 | 909 445 | 987 483 | 1184 579 |
| 2400 | 75/65/20 55/45/20 | 570 279 | 757 370 | 1002 490 | 1088 532 | 1305 638 |
| 2500 | 75/65/20 55/45/20 | 596 291 | 792 387 | 1048 512 | 1138 556 | 1365 667 |
| 2600 | 75/65/20 55/45/20 | 623 305 | 827 404 | 1095 535 | 1188 581 | 1426 697 |
| 2700 | 75/65/20 55/45/20 | 649 317 | 862 422 | 1141 558 | 1239 606 | 1486 727 |
| 2800 | 75/65/20 55/45/20 | 675 330 | 897 439 | 1187 580 | 1289 630 | 1546 756 |
| 2900 | 75/65/20 55/45/20 | 702 343 | 932 456 | 1234 603 | 1340 655 | 1607 786 |
| 3000 | 75/65/20 55/45/20 | 728 356 | 967 473 | 1280 626 | 1390 680 | 1667 815 |
| 3200 | 75/65/20 55/45/20 | 781 382 | 1038 508 | 1373 671 | 1491 729 | 1788 874 |
| 3400 | 75/65/20 55/45/20 | 834 408 | 1108 542 | 1466 717 | 1591 778 | 1909 934 |
| 3600 | 75/65/20 55/45/20 | 886 433 | 1178 576 | 1558 762 | 1692 827 | 2030 993 |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

All Aquilo convectors available on request.



DESCRIPTION - EXAMPLE: **Aquilo FMS 25 150 14 01**

name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

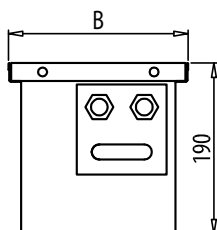


| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | B - width [mm] | | | | |
|------------------------------|--|-------------------|--------------------|--------------------|--------------------|---------------------|
| | | 200 | 250 | 300 | 340 | 420 |
| 700 | 75/65/20 55/45/20 | 134 66 | 199 97 | 238 116 | 276 135 | 325 159 |
| 800 | 75/65/20 55/45/20 | 163 80 | 242 118 | 290 142 | 337 165 | 395 193 |
| 900 | 75/65/20 55/45/20 | 193 94 | 285 139 | 341 167 | 397 194 | 466 228 |
| 1000 | 75/65/20 55/45/20 | 222 109 | 328 160 | 393 192 | 457 223 | 537 263 |
| 1100 | 75/65/20 55/45/20 | 251 123 | 371 181 | 445 218 | 517 253 | 607 297 |
| 1200 | 75/65/20 55/45/20 | 280 137 | 414 202 | 496 243 | 577 282 | 678 332 |
| 1300 | 75/65/20 55/45/20 | 309 151 | 458 224 | 548 268 | 637 311 | 748 366 |
| 1400 | 75/65/20 55/45/20 | 339 166 | 501 245 | 600 293 | 697 341 | 819 400 |
| 1500 | 75/65/20 55/45/20 | 368 180 | 544 266 | 652 319 | 757 370 | 890 435 |
| 1600 | 75/65/20 55/45/20 | 397 194 | 587 287 | 703 344 | 817 400 | 960 469 |
| 1800 | 75/65/20 55/45/20 | 455 222 | 673 329 | 807 395 | 938 459 | 1102 539 |
| 2000 | 75/65/20 55/45/20 | 514 251 | 760 372 | 910 445 | 1058 517 | 1243 608 |
| 2200 | 75/65/20 55/45/20 | 572 280 | 846 414 | 1014 496 | 1178 576 | 1384 677 |
| 2400 | 75/65/20 55/45/20 | 630 308 | 932 456 | 1117 546 | 1298 635 | 1525 746 |
| 2500 | 75/65/20 55/45/20 | 660 323 | 975 477 | 1169 572 | 1358 664 | 1596 780 |
| 2600 | 75/65/20 55/45/20 | 689 337 | 1019 498 | 1220 597 | 1418 693 | 1666 815 |
| 2700 | 75/65/20 55/45/20 | 718 351 | 1062 519 | 1272 622 | 1479 723 | 1737 849 |
| 2800 | 75/65/20 55/45/20 | 747 365 | 1105 540 | 1324 647 | 1539 753 | 1808 884 |
| 2900 | 75/65/20 55/45/20 | 776 379 | 1148 561 | 1376 673 | 1599 782 | 1878 918 |
| 3000 | 75/65/20 55/45/20 | 805 394 | 1191 582 | 1427 698 | 1659 811 | 1949 953 |
| 3200 | 75/65/20 55/45/20 | 864 422 | 1278 625 | 1531 749 | 1779 870 | 2090 1022 |
| 3400 | 75/65/20 55/45/20 | 922 451 | 1364 667 | 1634 799 | 1899 929 | 2231 1091 |
| 3600 | 75/65/20 55/45/20 | 981 480 | 1450 709 | 1738 850 | 2019 987 | 2373 1160 |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

All Aquilo convectors available on request.

(no fan) - height 190 mm



DESCRIPTION - EXAMPLE : **Aquilo FMS 25 150 19 01**



| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | B - width [mm] | | | | |
|------------------------------|---------------------------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
| | | 200 | 250 | 300 | 340 | 420 |
| 700 | 75/65/20 55/45/20 | 138 67 | 226 111 | 300 147 | 364 178 | 449 220 |
| 800 | 75/65/20 55/45/20 | 169 83 | 275 134 | 365 178 | 444 217 | 547 267 |
| 900 | 75/65/20 55/45/20 | 199 97 | 325 159 | 430 210 | 523 256 | 645 315 |
| 1000 | 75/65/20 55/45/20 | 229 112 | 374 183 | 496 243 | 602 294 | 742 363 |
| 1100 | 75/65/20 55/45/20 | 259 127 | 423 207 | 561 274 | 681 333 | 840 411 |
| 1200 | 75/65/20 55/45/20 | 289 141 | 472 231 | 626 306 | 761 372 | 937 458 |
| 1300 | 75/65/20 55/45/20 | 319 156 | 521 255 | 691 338 | 840 411 | 1035 506 |
| 1400 | 75/65/20 55/45/20 | 349 171 | 571 279 | 756 370 | 919 449 | 1133 554 |
| 1500 | 75/65/20 55/45/20 | 379 185 | 620 303 | 822 402 | 998 488 | 1230 601 |
| 1600 | 75/65/20 55/45/20 | 409 200 | 669 327 | 887 434 | 1078 527 | 1328 649 |
| 1800 | 75/65/20 55/45/20 | 470 230 | 767 375 | 1017 497 | 1236 604 | 1523 745 |
| 2000 | 75/65/20 55/45/20 | 530 259 | 866 423 | 1148 561 | 1395 682 | 1719 841 |
| 2200 | 75/65/20 55/45/20 | 590 289 | 964 471 | 1278 625 | 1553 759 | 1914 936 |
| 2400 | 75/65/20 55/45/20 | 650 318 | 1062 519 | 1408 689 | 1711 837 | 2109 1031 |
| 2500 | 75/65/20 55/45/20 | 680 333 | 1112 544 | 1474 721 | 1791 876 | 2207 1079 |
| 2600 | 75/65/20 55/45/20 | 710 347 | 1161 568 | 1539 753 | 1870 914 | 2305 1127 |
| 2700 | 75/65/20 55/45/20 | 741 362 | 1210 592 | 1604 784 | 1949 953 | 2402 1175 |
| 2800 | 75/65/20 55/45/20 | 771 377 | 1259 616 | 1669 816 | 2028 992 | 2500 1223 |
| 2900 | 75/65/20 55/45/20 | 801 392 | 1308 640 | 1734 848 | 2108 1031 | 2598 1270 |
| 3000 | 75/65/20 55/45/20 | 831 406 | 1357 664 | 1800 880 | 2187 1069 | 2695 1318 |
| 3200 | 75/65/20 55/45/20 | 891 436 | 1456 712 | 1930 944 | 2345 1147 | 2891 1414 |
| 3400 | 75/65/20 55/45/20 | 951 465 | 1554 760 | 2060 1007 | 2504 1224 | 3086 1509 |
| 3600 | 75/65/20 55/45/20 | 1011 494 | 1653 808 | 2191 1071 | 2662 1302 | 3281 1604 |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

All Aquilo convectors available on request.



AQUILO F1S (FAN VERSION)

Aquilo F1S trench convectors are specially designed for in-floor installation. The heating element is a copper-aluminum heat exchanger, painted black and mounted inside a double-side galvanized steel duct which is, also painted black on the inside. Aquilo F1S convectors are additionally equipped with noiseless centrifugal fans mounted inside the duct. The number of fans is determined by the length of the convector and the required heat output. The fans are driven by 24 V motors. On the top the convector is protected by a range of decorative grilles made of a choice of different materials. The grille is ordered separately. The heat exchanger is connected to the heating system by two G ½" internal thread pipes.

Electrical accessories required to complete the installation and to be ordered separately include a transformer, as well as a surface-mounted thermostat to control fan speed.

Technical specification

- Height : 75 mm (width 170, 200, 230 mm)
110 mm (width 230, 250 mm)
- Length : from 700 up to 3000 mm
- Heat exchanger : aluminum finned copper
- Duct design : Double-side galvanized steel, black RAL 9005 dry powder-coated on the inside
option: stainless steel
- Grille material : wood (oak, beech)
Duralumin in a choice of colours : natural, light brown, dark brown or black
stainless steel
- Connections : 2 x G ½" – internal thread
- Operating pressure : 10 bar
- Max. temperature : 110 °C
- Test pressure : 13 bar



- Heat exchanger accessories : manual air vent, 10 cm long stainless steel flexible connector kit with a G ½" thread
- Duct accessories : leveling bolts M8x30 mm with internal hexagon (for duct length up to 2.5 m – 4 pcs., over 2.5 m – 6 pcs.), 4 surface mounting elements with duct fixing screws, breakable pass for the heating system pipes + 2 rubber passes for domestic electric circuit connection, covers for masking heat exchanger connections, protecting the heat exchanger and duct against damage or scuffing during installation and installation spacers to be used when pouring concrete over the tub and laying the finished floor to avoid deformation of the tub
- Standard electrical accessories : 1 or 2 modules with centrifugal fans driven with 24V motors (the number of the fans in a single module depends on the convector's length). Every single module incorporates one motor.
- Obligatory additional electrical accessories : RAS transformer (~230/24V) appropriate to the convector's - or the group of convectors - size, depending on the number of connected motors, together with a manual switch, or a room thermostat with a manual or automatic speed switch, to regulate the convector's heat output via a three-level setting of the fan's speed (the remote-controlled thermostat available)

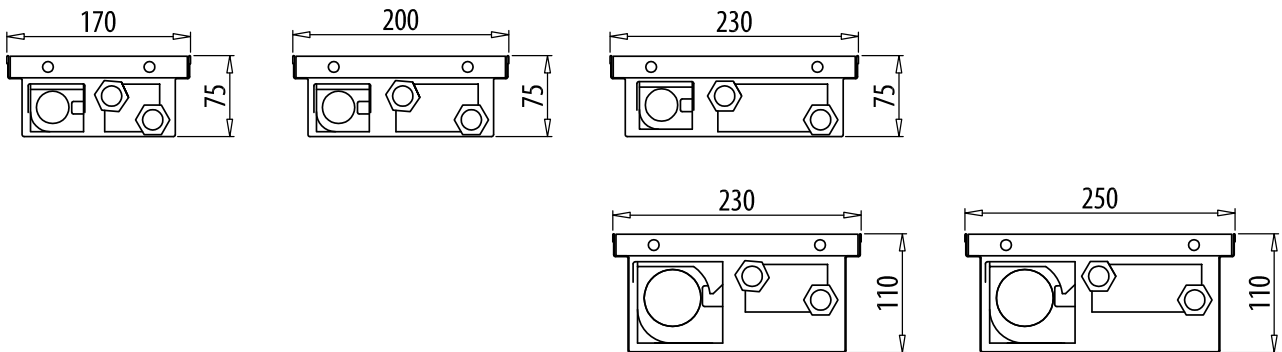
Note:

It is strictly forbidden to power the F1S convector directly from the ~230 V electric circuit. The application of an adequate RAS transformer is a must.

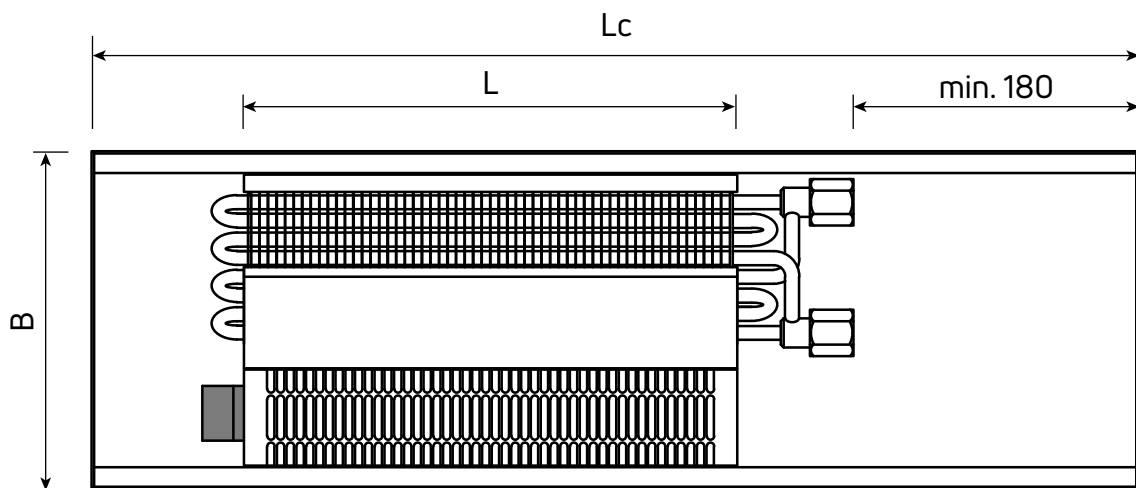
AQUILO F1S

(fan version)

side views



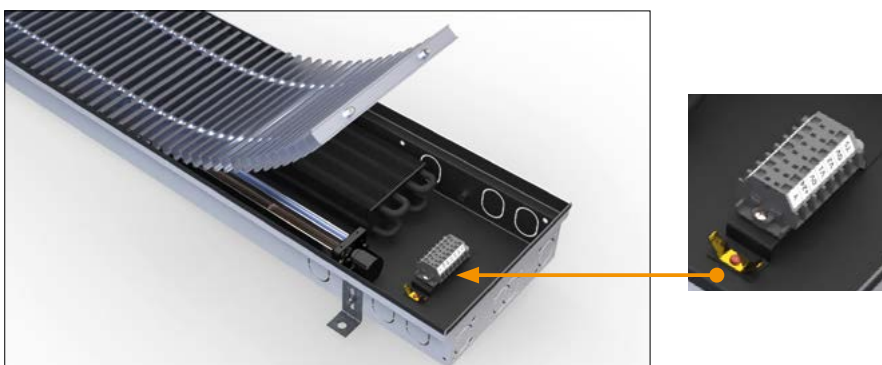
top view - examples

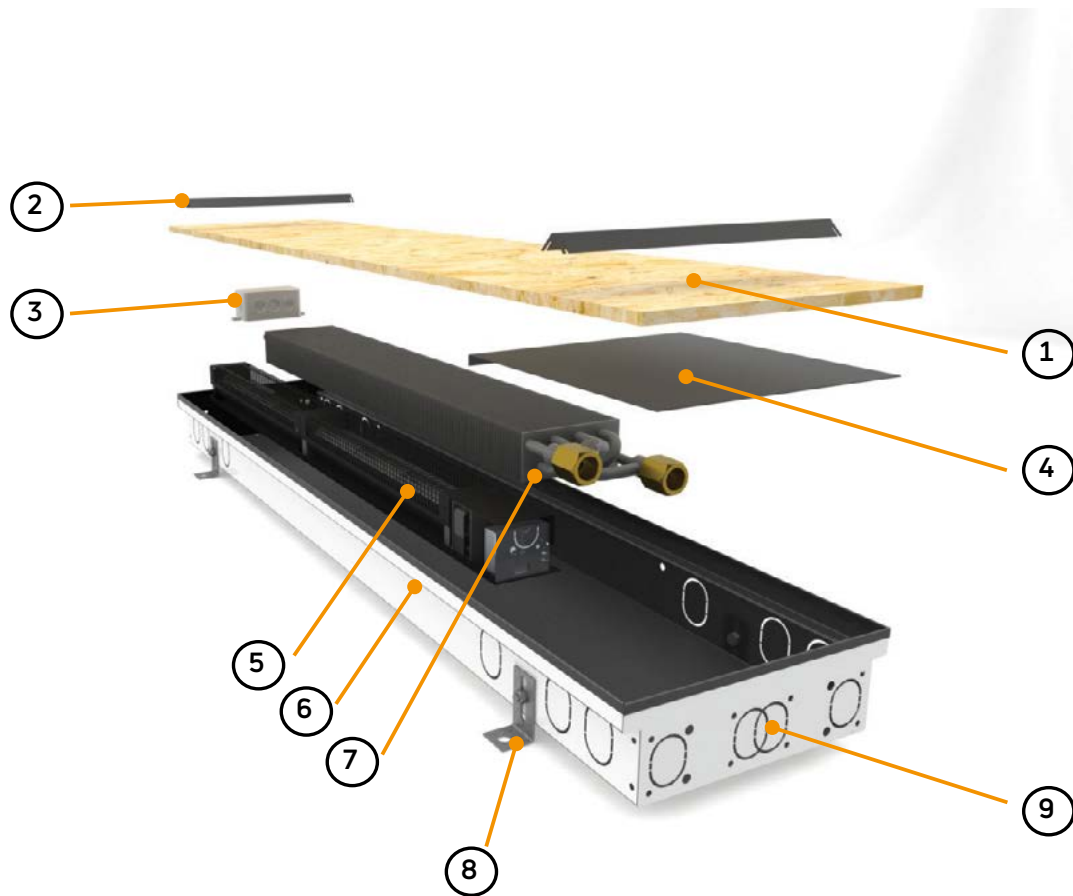


↑ 24 V DC

Lc - convector's overall length
L - exchanger's length
B - width

view of electrical connection





- 1 - Protective cover
- 2 - Braces to prevent distortion during floor laying
- 3 - Flush box for fan power supply.
- 4 - Cover sheet to hide valves and connections.
- 5 - Heat exchanger (copper pipes, aluminum fins, coated with black varnish).

- 6 - Duct (double-side galvanized, and varnished).
- 7 - Air vent.
- 8 - Surface mounting brackets.
- 9 - Knock-outs for pipe connections.

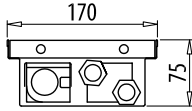
weight and water content

| height | [mm] | 75 | | | 110 | |
|---------------|--------|-----|-----|-----|-----|------|
| width - B | [mm] | 170 | 200 | 230 | 230 | 250 |
| weight | [kg/m] | 7.2 | 8 | 9.3 | 9.2 | 10.2 |
| water content | [U/m] | 0.1 | 0.2 | 0.4 | 0.2 | 0.4 |

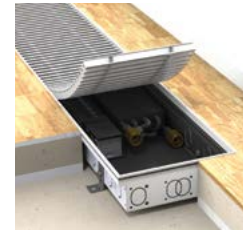
(fan version) - height 75 mm

Note: do not use the linear grilles with the F1S convectors!

DESCRIPTION - EXAMPLE : **Aquila F1S 17 150 08 01**



name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

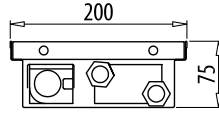
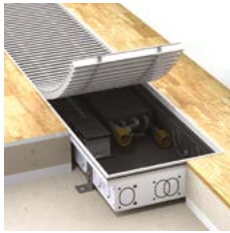


| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | width 170 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------------|--|---|--------------|--------------|--|----|----|---------------------|--------------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 700 | 75/65/20 55/45/20 | 192 109 | 342 195 | 427 243 | < 20 | 22 | 30 | 1 | 8 |
| 800 | 75/65/20 55/45/20 | 192 109 | 342 195 | 427 243 | | | | | |
| 900 | 75/65/20 55/45/20 | 192 109 | 342 195 | 427 243 | | | | | |
| 1000 | 75/65/20 55/45/20 | 397 226 | 706 402 | 883 503 | | 23 | 31 | | |
| 1100 | 75/65/20 55/45/20 | 397 226 | 706 402 | 883 503 | | | | | |
| 1200 | 75/65/20 55/45/20 | 397 226 | 706 402 | 883 503 | | | | | |
| 1300 | 75/65/20 55/45/20 | 602 343 | 1070 610 | 1338 763 | | 24 | 32 | | |
| 1400 | 75/65/20 55/45/20 | 602 343 | 1070 610 | 1338 763 | | | | | |
| 1500 | 75/65/20 55/45/20 | 714 407 | 1269 723 | 1586 904 | | | | | |
| 1600 | 75/65/20 55/45/20 | 714 407 | 1269 723 | 1586 904 | | | | | |
| 1800 | 75/65/20 55/45/20 | 875 499 | 1555 886 | 1944 1108 | 21 | 26 | 33 | | |
| 2000 | 75/65/20 55/45/20 | 987 563 | 1754 1000 | 2193 1250 | | | | | |
| 2200 | 75/65/20 55/45/20 | 1086 619 | 1930 1100 | 2413 1375 | | | | | |
| 2400 | 75/65/20 55/45/20 | 1197 682 | 2129 1214 | 2661 1517 | 22 | 27 | 34 | 2 | 16 |
| 2500 | 75/65/20 55/45/20 | 1297 739 | 2306 1314 | 2882 1643 | | | | | |
| 2600 | 75/65/20 55/45/20 | 1297 739 | 2306 1314 | 2882 1643 | | | | | |
| 2800 | 75/65/20 55/45/20 | 1409 803 | 2504 1427 | 3130 1784 | 23 | 28 | 35 | | |
| 3000 | 75/65/20 55/45/20 | 1564 891 | 2780 1585 | 3475 1981 | | | | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 24V DC.

All Aquilo convectors available on request.



Note: do not use the linear grilles with the F1S convectors!

DESCRIPTION - EXAMPLE : **Aquilo F1S 20 150 08 01**



| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | width 200 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------------|--|---|--------------|--------------|--|----|----|---------------------|--------------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 700 | 75/65/20 55/45/20 | 285 162 | 506 288 | 633 361 | < 20 | 22 | 30 | 1 | 8 |
| 800 | 75/65/20 55/45/20 | 285 162 | 506 288 | 633 361 | | | | | |
| 900 | 75/65/20 55/45/20 | 285 162 | 506 288 | 633 361 | | | | | |
| 1000 | 75/65/20 55/45/20 | 588 335 | 1046 596 | 1307 745 | | 23 | 31 | | |
| 1100 | 75/65/20 55/45/20 | 588 335 | 1046 596 | 1307 745 | | | | | |
| 1200 | 75/65/20 55/45/20 | 588 335 | 1046 596 | 1307 745 | | 24 | 32 | | |
| 1300 | 75/65/20 55/45/20 | 891 508 | 1585 903 | 1981 1129 | | | | | |
| 1400 | 75/65/20 55/45/20 | 891 508 | 1585 903 | 1981 1129 | | | | | |
| 1500 | 75/65/20 55/45/20 | 1057 602 | 1878 1070 | 2348 1338 | | | | | |
| 1600 | 75/65/20 55/45/20 | 1057 602 | 1878 1070 | 2348 1338 | | 25 | 32 | | |
| 1800 | 75/65/20 55/45/20 | 1296 739 | 2303 1313 | 2879 1641 | | | | | |
| 2000 | 75/65/20 55/45/20 | 1461 833 | 2598 1481 | 3247 1851 | 21 | 26 | 33 | | |
| 2200 | 75/65/20 55/45/20 | 1608 917 | 2859 1630 | 3574 2037 | | | | | |
| 2400 | 75/65/20 55/45/20 | 1773 1011 | 3153 1797 | 3941 2246 | 22 | 27 | 34 | 2 | 16 |
| 2500 | 75/65/20 55/45/20 | 1921 1095 | 3414 1946 | 4268 2433 | | | | | |
| 2600 | 75/65/20 55/45/20 | 1921 1095 | 3414 1946 | 4268 2433 | 23 | 28 | 35 | | |
| 2800 | 75/65/20 55/45/20 | 2086 1189 | 3708 2114 | 4635 2642 | | | | | |
| 3000 | 75/65/20 55/45/20 | 2316 1320 | 4117 2347 | 5146 2933 | | | | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

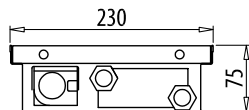
The fan is powered by 24V DC.

All Aquilo convectors available on request.

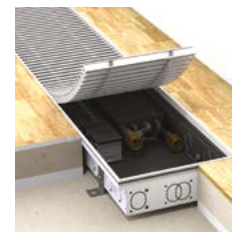
(fan version) - height 75 mm

Note: do not use the linear grilles with the F1S convectors!

DESCRIPTION - EXAMPLE : **Aquila F1S 23 150 08 01**



name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

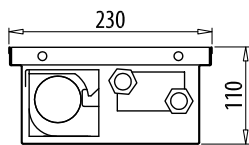


| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | width 230 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------------|--|---|--------------|--------------|--|----|----|---------------------|--------------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 700 | 75/65/20 55/45/20 | 313 178 | 556 317 | 695 396 | < 20 | 22 | 30 | 1 | 8 |
| 800 | 75/65/20 55/45/20 | 313 178 | 556 317 | 695 396 | | | | | |
| 900 | 75/65/20 55/45/20 | 313 178 | 556 317 | 695 396 | | | | | |
| 1000 | 75/65/20 55/45/20 | 645 368 | 1147 654 | 1434 817 | | 23 | 31 | | |
| 1100 | 75/65/20 55/45/20 | 645 368 | 1147 654 | 1434 817 | | | | | |
| 1200 | 75/65/20 55/45/20 | 645 368 | 1147 654 | 1434 817 | | 24 | 32 | | |
| 1300 | 75/65/20 55/45/20 | 978 557 | 1739 991 | 2174 1239 | | | | | |
| 1400 | 75/65/20 55/45/20 | 978 557 | 1739 991 | 2174 1239 | | | | | |
| 1500 | 75/65/20 55/45/20 | 1160 661 | 2062 1175 | 2578 1469 | | 25 | 32 | | |
| 1600 | 75/65/20 55/45/20 | 1160 661 | 2062 1175 | 2578 1469 | | | | | |
| 1800 | 75/65/20 55/45/20 | 1422 811 | 2528 1441 | 3160 1801 | 21 | 26 | 33 | | |
| 2000 | 75/65/20 55/45/20 | 1604 914 | 2851 1625 | 3564 2031 | | | | | |
| 2200 | 75/65/20 55/45/20 | 1765 1006 | 3138 1789 | 3922 2236 | | | | | |
| 2400 | 75/65/20 55/45/20 | 1947 1110 | 3461 1973 | 4326 2466 | 22 | 27 | 34 | 2 | 16 |
| 2500 | 75/65/20 55/45/20 | 2108 1202 | 3747 2136 | 4684 2670 | | | | | |
| 2600 | 75/65/20 55/45/20 | 2108 1202 | 3747 2136 | 4684 2670 | 23 | 28 | 35 | | |
| 2800 | 75/65/20 55/45/20 | 2290 1305 | 4070 2320 | 5088 2900 | | | | | |
| 3000 | 75/65/20 55/45/20 | 2542 1449 | 4518 2575 | 5648 3219 | | | | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

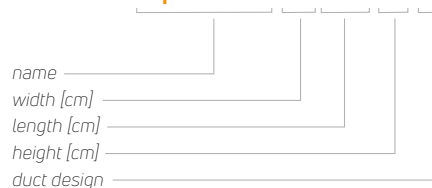
The fan is powered by 24V DC.

All Aquilo convectors available on request.



Note: do not use the linear grilles with the F1S convectors!

DESCRIPTION - EXAMPLE : **Aquilo F1S 23 150 11 01**



| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | width 230 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------------|--|---|--------------|--------------|--|----|----|---------------------|--------------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 700 | 75/65/20 55/45/20 | 397 226 | 706 402 | 882 503 | 21 | 26 | 32 | 1 | 16 |
| 800 | 75/65/20 55/45/20 | 397 226 | 706 402 | 882 503 | | | | | |
| 900 | 75/65/20 55/45/20 | 397 226 | 706 402 | 882 503 | | | | | |
| 1000 | 75/65/20 55/45/20 | 820 467 | 1458 831 | 1822 1039 | 22 | 28 | 34 | | |
| 1100 | 75/65/20 55/45/20 | 820 467 | 1458 831 | 1822 1039 | | | | | |
| 1200 | 75/65/20 55/45/20 | 820 467 | 1458 831 | 1822 1039 | | | | | |
| 1300 | 75/65/20 55/45/20 | 1242 708 | 2209 1259 | 2761 1574 | 23 | 30 | 36 | | |
| 1400 | 75/65/20 55/45/20 | 1242 708 | 2209 1259 | 2761 1574 | | | | | |
| 1500 | 75/65/20 55/45/20 | 1473 840 | 2619 1493 | 3274 1866 | 24 | 31 | 37 | | |
| 1600 | 75/65/20 55/45/20 | 1473 840 | 2619 1493 | 3274 1866 | | | | | |
| 1800 | 75/65/20 55/45/20 | 1806 1029 | 3211 1830 | 4014 2288 | 25 | 33 | 39 | 2 | 32 |
| 2000 | 75/65/20 55/45/20 | 2037 1161 | 3621 2064 | 4526 2580 | | | | | |
| 2200 | 75/65/20 55/45/20 | 2242 1278 | 3986 2272 | 4982 2840 | | | | | |
| 2400 | 75/65/20 55/45/20 | 2472 1409 | 4395 2505 | 5494 3132 | 26 | 35 | 41 | | |
| 2500 | 75/65/20 55/45/20 | 2678 1526 | 4760 2713 | 5950 3392 | | | | | |
| 2600 | 75/65/20 55/45/20 | 2678 1526 | 4760 2713 | 5950 3392 | 27 | 36 | 42 | | |
| 2800 | 75/65/20 55/45/20 | 2908 1658 | 5170 2947 | 6462 3683 | | | | | |
| 3000 | 75/65/20 55/45/20 | 3228 1840 | 5739 3271 | 7174 4089 | | | | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

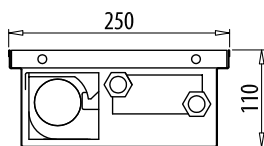
The fan is powered by 24V DC.

All Aquilo convectors available on request.

(fan version) - height 110 mm

Note: do not use the linear grilles with the F1S convectors!

DESCRIPTION - EXAMPLE: **Aquila F1S 25 150 11 01**



name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____



| Lc overall length [mm] | Heat output t _s / t _r / t _i [°C] | width 250 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------------|--|---|--------------|--------------|--|----|----|---------------------|--------------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 700 | 75/65/20 55/45/20 | 541 308 | 962 548 | 1202 685 | 21 | 26 | 32 | 1 | 16 |
| 800 | 75/65/20 55/45/20 | 541 308 | 962 548 | 1202 685 | | | | | |
| 900 | 75/65/20 55/45/20 | 541 308 | 962 548 | 1202 685 | | | | | |
| 1000 | 75/65/20 55/45/20 | 1117 637 | 1986 1132 | 2482 1415 | 22 | 28 | 34 | | |
| 1100 | 75/65/20 55/45/20 | 1117 637 | 1986 1132 | 2482 1415 | | | | | |
| 1200 | 75/65/20 55/45/20 | 1117 637 | 1986 1132 | 2482 1415 | | | | | |
| 1300 | 75/65/20 55/45/20 | 1693 965 | 3010 1716 | 3763 2145 | 23 | 30 | 36 | | |
| 1400 | 75/65/20 55/45/20 | 1693 965 | 3010 1716 | 3763 2145 | | | | | |
| 1500 | 75/65/20 55/45/20 | 2007 1144 | 3569 2034 | 4461 2543 | 24 | 31 | 37 | | |
| 1600 | 75/65/20 55/45/20 | 2007 1144 | 3569 2034 | 4461 2543 | | | | | |
| 1800 | 75/65/20 55/45/20 | 2461 1403 | 4375 2494 | 5469 3117 | 25 | 33 | 39 | 2 | 32 |
| 2000 | 75/65/20 55/45/20 | 2775 1582 | 4934 2812 | 6167 3515 | | | | | |
| 2200 | 75/65/20 55/45/20 | 3055 1741 | 5430 3095 | 6788 3869 | | | | | |
| 2400 | 75/65/20 55/45/20 | 3369 1920 | 5989 3414 | 7486 4267 | 26 | 35 | 41 | | |
| 2500 | 75/65/20 55/45/20 | 3648 2079 | 6486 3697 | 8107 4621 | | | | | |
| 2600 | 75/65/20 55/45/20 | 3648 2079 | 6486 3697 | 8107 4621 | 27 | 36 | 42 | | |
| 2800 | 75/65/20 55/45/20 | 3962 2258 | 7044 4015 | 8805 5019 | | | | | |
| 3000 | 75/65/20 55/45/20 | 4399 2507 | 7820 4457 | 9775 5572 | | | | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 24V DC.

All Aquilo convectors available on request.

AQUILO F2C / F2V (HEATING OR COOLING)

Aquilo F2C and F2V trench convectors are specially designed for the in-floor installation, and can be used for either heating or cooling. The heating or cooling element is a copper-aluminum heat exchanger, painted black and mounted inside a duct made of unpainted stainless steel.

Aquilo F2C and F2V convectors are additionally equipped with noiseless centrifugal fans mounted inside the duct. The number of fans is determined by the length of the convector and the required heat output. The fans are driven by 24 V motors (F2C model) or 230 V motors (F2V model). On the top the convector is protected by a range of decorative grilles made of a choice of different materials. The grille is ordered separately. The heat exchanger is connected to the heating or cooling system by two G ½" internal thread pipes. Electrical accessories required to complete the installation and to be ordered separately include a transformer, as well as a surface-mounted thermostat to control fan speed.

Technical specification

- Height : 110 mm (width 230 mm) - Aquilo F2C
170 mm (width 340 mm) - Aquilo F2C, F2V
- Length : 850, 1200, 1600, 2100, 2400, 2700 mm
- Heat exchanger : aluminum finned copper
- Duct design : standard version: unpainted stainless steel
Note: for swimming pool applications special versions are necessary
Detailed specifications are available on request.
- Grille material : wood (oak, beech), stainless steel
Duralumin in a choice of colours : natural, light brown, dark brown or black
Note: only Duralumin grilles can be used in case of cooling mode selection
- Connections : 2 x G ½" – internal thread
- Operating pressure : 10 bar
- Max. temperature : 110 °C
- Test pressure : 13 bar



- Heat exchanger accessories : manual air vent, 10 cm long stainless steel flexible connector kit with a G ½" thread
- Duct accessories : leveling bolts M8x30 mm with internal hexagon (for duct length up to 2.5 m – 4 pcs., over 2.5 m – 6 pcs.), 4 surface mounting elements with duct fixing screws, breakable pass for the heating or cooling system pipes + 2 rubber passes for domestic electric circuit connection, covers for masking heat exchanger connections, protecting the heat exchanger and duct against damage or scuffing during installation and installation spacers to be used when pouring concrete over the tub and laying the finished floor to avoid deformation of the tub
- Standard electrical accessories : 1 module with centrifugal fans driven with 24V motors in the F2C model and 230V in the F2V model (the number of the fans in a single module depends on the convector's length). Every single module incorporates one motor.
- Obligatory additional electrical accessories: RAS transformer (~230/24V in the F2C model) appropriate to the convector's - or the group of convectors - size, depending on the number of connected motors, together with a manual switch, or a room thermostat with a manual or automatic speed switch, to regulate the convector's heating or cooling efficiency via a three-level setting of the fan's speed (the remote-controlled thermostat available).

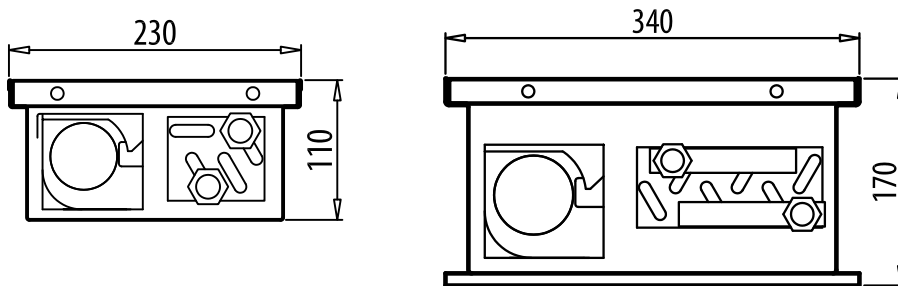
Note:

It is strictly forbidden to power the F2C convector directly from the ~230 V electric circuit. The application of an adequate RAS transformer is a must.

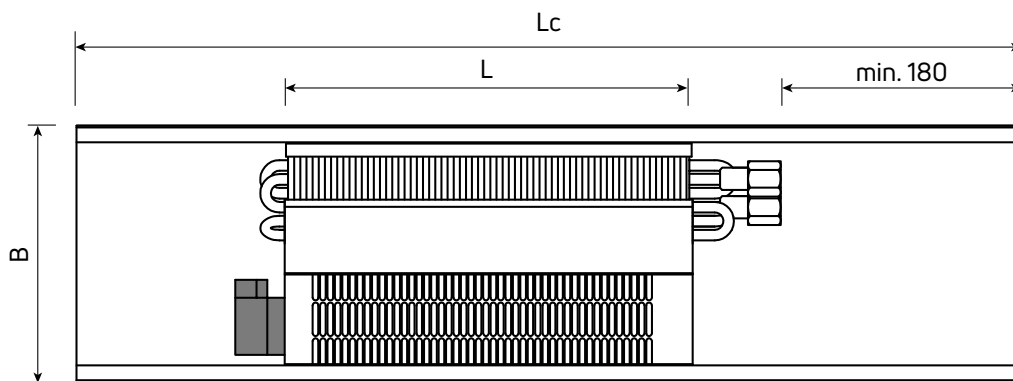
AQUILO F2C / F2V

(heating or cooling)

side view



top view



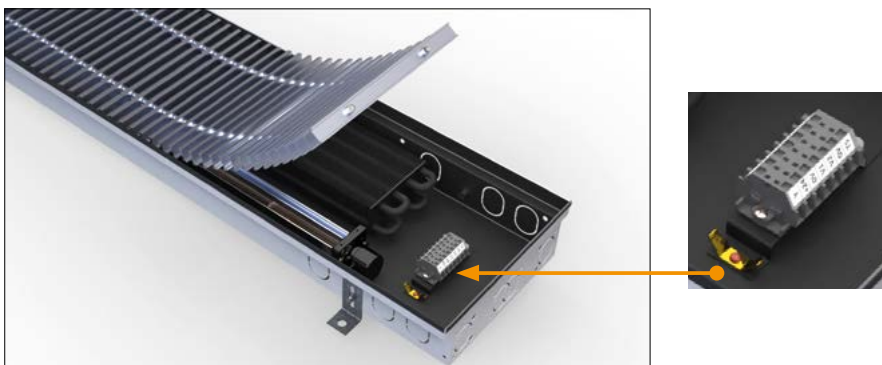
↑ F2C - 24 V DC
F2V - 230 V AC

Lc - convector's overall length
L - exchanger's length
B - width

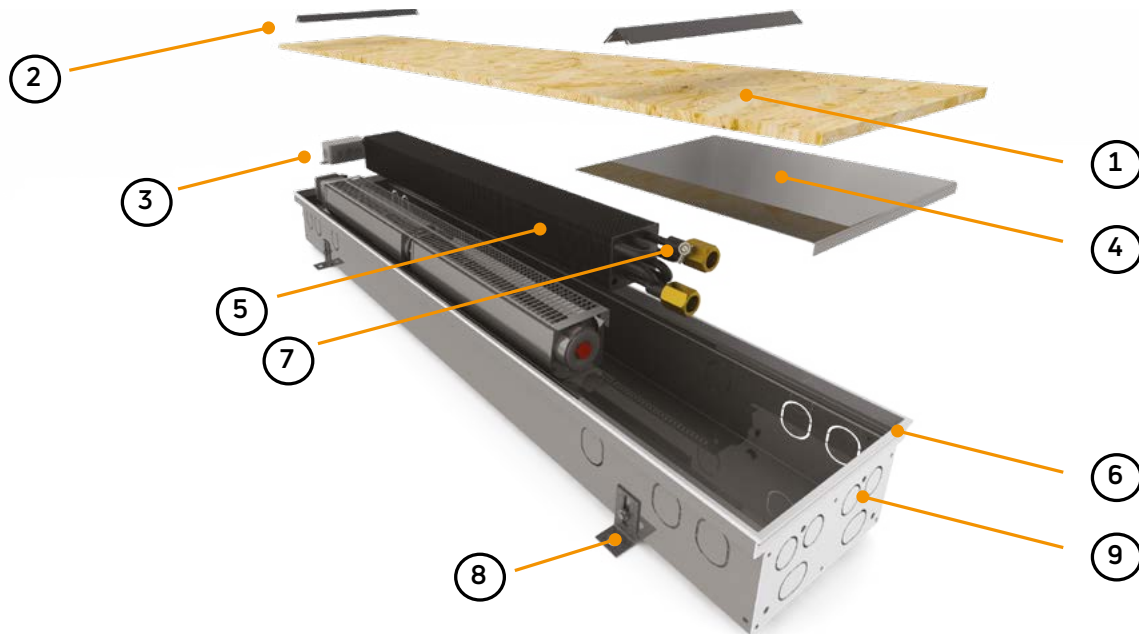
weight and water content

| | | Aquila F2C | | Aquila F2V |
|---------------|--------|------------|------|------------|
| height | [mm] | 110 | 170 | 170 |
| width - B | [mm] | 230 | 340 | 340 |
| weight | [kg/m] | 13.1 | 20.8 | 21.1 |
| water content | [l/m] | 0.3 | 0.7 | 0.7 |

view of electrical connection



(heating or cooling)



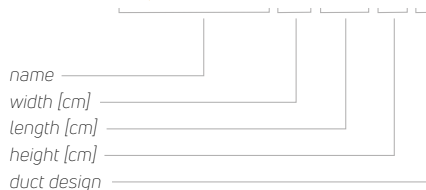
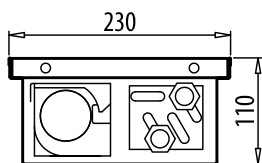
- 1 - Protective cover
- 2 - Braces to prevent distortion during floor laying
- 3 - Flush box for fan power supply.
- 4 - Cover sheet to hide valves and connections.
- 5 - Heat exchanger (copper pipes, aluminum fins, coated with black varnish).

- 6 - Duct (double-side galvanized, and varnished).
- 7 - Air vent.
- 8 - Surface mounting brackets.
- 9 - Knock-outs for pipe connections.

(heating or cooling) - height 110 mm

Note: do not use the linear grilles with the F2C convectors!

DESCRIPTION - EXAMPLE : **AQUILO F2C 23 120 11 11**



| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | width 230 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|------------------------------------|--------------------------------------|--------------|--------------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 75/65/20 55/45/20 | 501 286 | 890 507 | 1113 634 | 21 | 26 | 32 | 1 | 16 |
| 1200 | 75/65/20 55/45/20 | 1001 571 | 1780 1015 | 2225 1268 | 22 | 28 | 34 | | |
| 1600 | 75/65/20 55/45/20 | 1487 848 | 2644 1507 | 3305 1884 | 23 | 30 | 36 | | |
| 2100 | 75/65/20 55/45/20 | 2120 1208 | 3770 2149 | 4712 2686 | 25 | 33 | 39 | 2 | 32 |
| 2400 | 75/65/20 55/45/20 | 2592 1477 | 4607 2626 | 5759 3283 | 26 | 35 | 41 | | |
| 2700 | 75/65/20 55/45/20 | 3107 1771 | 5524 3149 | 6905 3936 | 27 | 36 | 42 | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 24V DC.

Cooling mode

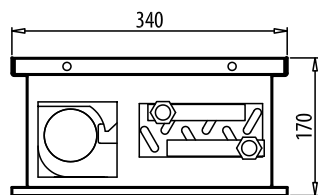
| Lc overall length [mm] | Cooling output $t_s / t_r / t_l$ [°C] | width 230 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|---------------------------------------|--------------------------------------|------|------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 8/14/28 | 128 | 227 | 284 | 21 | 26 | 32 | 1 | 16 |
| 1200 | 8/14/28 | 255 | 454 | 567 | 22 | 28 | 34 | | |
| 1600 | 8/14/28 | 379 | 674 | 843 | 23 | 30 | 36 | | |
| 2100 | 8/14/28 | 541 | 962 | 1202 | 25 | 33 | 39 | 2 | 32 |
| 2400 | 8/14/28 | 661 | 1175 | 1469 | 26 | 35 | 41 | | |
| 2700 | 8/14/28 | 792 | 1409 | 1761 | 27 | 36 | 42 | | |

Cooling output [W] in accordance with EN 16430 at 8/14/28 °C.

The fan is powered by 24V DC.

All Aquilo convectors available on request.

(heating or cooling) - height 170 mm



Note: do not use the linear grilles with the F2C convectors!

DESCRIPTION - EXAMPLE: **AQUILO F2C 34 120 17 11**

name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|------------------------------------|--------------------------------------|--------------|---------------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 75/65/20 55/45/20 | 776 442 | 1380 787 | 1725 983 | 21 | 27 | 33 | 1 | 20 |
| 1200 | 75/65/20 55/45/20 | 1553 885 | 2760 1573 | 3450 1967 | 22 | 29 | 34 | | |
| 1600 | 75/65/20 55/45/20 | 2306 1314 | 4099 2336 | 5124 2921 | 23 | 31 | 37 | | |
| 2100 | 75/65/20 55/45/20 | 3288 1874 | 5845 3332 | 7306 4164 | 25 | 34 | 40 | 2 | 40 |
| 2400 | 75/65/20 55/45/20 | 4018 2290 | 7143 4072 | 8929 5090 | 26 | 35 | 42 | | |
| 2700 | 75/65/20 55/45/20 | 4817 2746 | 8564 4881 | 10705 6102 | 27 | 37 | 43 | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 24V DC.

Cooling mode

| Lc overall length [mm] | Cooling output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|---------------------------------------|--------------------------------------|------|------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 8/14/28 | 198 | 352 | 440 | 21 | 27 | 33 | 1 | 20 |
| 1200 | 8/14/28 | 396 | 705 | 881 | 22 | 29 | 34 | | |
| 1600 | 8/14/28 | 589 | 1046 | 1308 | 23 | 31 | 37 | | |
| 2100 | 8/14/28 | 839 | 1492 | 1865 | 25 | 34 | 40 | 2 | 40 |
| 2400 | 8/14/28 | 1026 | 1823 | 2279 | 26 | 35 | 42 | | |
| 2700 | 8/14/28 | 1230 | 2186 | 2733 | 27 | 37 | 43 | | |

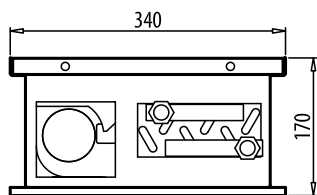
Cooling output [W] in accordance with EN 16430 at 8/14/28 °C.

The fan is powered by 24V DC.

All Aquilo convectors available on request.

(heating or cooling) - height 170 mm

Note: do not use the linear grilles with the F2V convectors!



DESCRIPTION - EXAMPLE : **AQUILO F2V 34 120 17 11**

name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____



| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|------------------------------------|--------------------------------------|---------------|---------------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 75/65/20 55/45/20 | 942 537 | 1675 955 | 2094 1194 | 22 | 30 | 41 | 1 | 38 |
| 1200 | 75/65/20 55/45/20 | 1885 1074 | 3351 1910 | 4189 2388 | 23 | 31 | 41 | | |
| 1600 | 75/65/20 55/45/20 | 2800 1596 | 4978 2837 | 6222 3547 | 25 | 33 | 42 | | |
| 2100 | 75/65/20 55/45/20 | 3992 2275 | 7096 4045 | 8870 5056 | 25 | 35 | 45 | 2 | 76 |
| 2400 | 75/65/20 55/45/20 | 4879 2781 | 8674 4944 | 10842 6180 | 27 | 35 | 45 | | |
| 2700 | 75/65/20 55/45/20 | 5849 3334 | 10398 5927 | 12998 7409 | 28 | 36 | 46 | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 230V AC.

Cooling mode

| Lc overall length [mm] | Cooling output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|---------------------------------------|--------------------------------------|------|------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 8/14/28 | 293 | 522 | 652 | 22 | 30 | 41 | 1 | 38 |
| 1200 | 8/14/28 | 586 | 1042 | 1303 | 23 | 31 | 41 | | |
| 1600 | 8/14/28 | 871 | 1549 | 1936 | 25 | 33 | 42 | | |
| 2100 | 8/14/28 | 1242 | 2208 | 2760 | 25 | 35 | 45 | 2 | 76 |
| 2400 | 8/14/28 | 1518 | 2699 | 3374 | 27 | 35 | 45 | | |
| 2700 | 8/14/28 | 1820 | 3236 | 4045 | 28 | 36 | 46 | | |

Cooling output [W] in accordance with EN 16430 at 8/14/28 °C.

The fan is powered by 230V AC.

All Aquilo convectors available on request.

AQUILO F4C / F4V (HEATING AND COOLING)

Aquilo F4C and F4V trench convectors are especially designed for the in-floor installation, and can be used for either heating and/or cooling. The heating or cooling element is a double-loop copper-aluminum heat exchanger, painted black, mounted inside a duct made of unpainted stainless steel.

Aquilo F4C and F4V convectors are additionally equipped with noiseless centrifugal fans mounted inside the duct. The number of fans is determined by the length of the convector and the required heat output. The fans are driven by 24 V motors (F4C model) or 230 V motors (F4V model). On the top the convector is protected by a range of decorative grilles made of a choice of different materials. The grille is ordered separately. The heat exchanger is connected to the heating and cooling systems by four G ½" internal thread pipes. Electrical accessories required to complete the installation and to be ordered separately include a transformer, as well as a surface-mounted thermostat to control fan speed.

Technical specification

- Width : 340 mm
- Length : 850, 1200, 1600, 2100, 2400, 2700 mm
- Height : 170 mm
- Heat exchanger : aluminum finned copper
- Duct design : standard version: stainless steel in natural colour
Note: for swimming pool applications special versions are necessary
Detailed specifications are available on request.
- Grille material : only Duralumin grilles can be used in the following choice of colours:
natural, light brown, dark brown or black
- Connections : 4 x G ½" – internal thread
- Operating pressure : 10 bar
- Max. temperature : 110 °C
- Test pressure : 13 bar



- Heat exchanger accessories : manual air vent, 10 cm long stainless steel flexible connector kit with a G ½" thread
- Duct accessories : leveling bolts M8x30 mm with internal hexagon (for duct length up to 2.5 m – 4 pcs., over 2.5 m – 6 pcs.), 4 surface mounting elements with duct fixing screws, breakable pass for the heating or cooling system pipes + 2 rubber passes for domestic electric circuit connection, covers for masking heat exchanger connections, protecting the heat exchanger and duct against damage or scuffing during installation and installation spacers to be used when pouring concrete over the tub and laying the finished floor to avoid deformation of the tub
- Standard electrical accessories : 1 or 2 modules with centrifugal fans driven with 24V motors in the F4C model and 230V in the F4V model (the number of the fans in a single module depends on the convector's length). Every single module incorporates one motor.
- Obligatory additional electrical accessories : RAS transformer (~230/24V in the F4C model) appropriate to the convector's - or the group of convectors - size, depending on the number of connected motors, together with a manual switch, or a room thermostat with a manual or automatic speed switch, to regulate the convector's heating or cooling efficiency via a three-level setting of the fan's speed (the remote-controlled thermostat available).

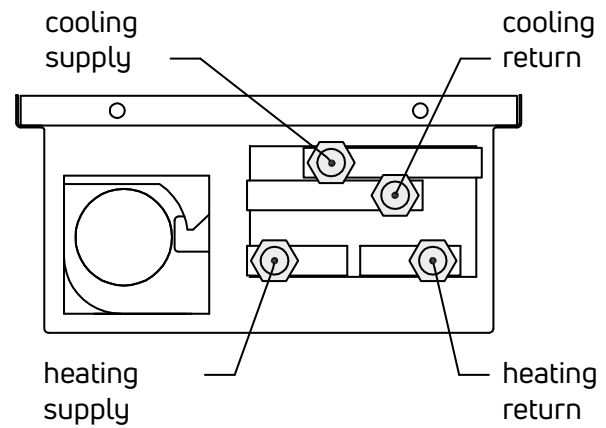
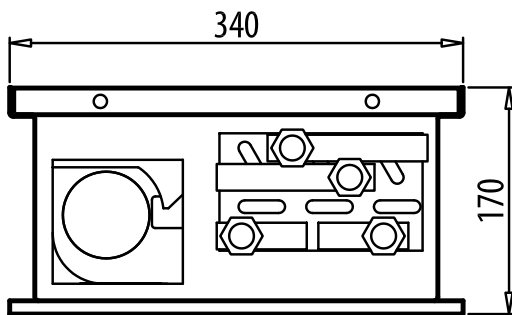
Note:

It is strictly forbidden to power the F4C convector directly from the ~230 V electric circuit. The application of an adequate RAS transformer is a must.

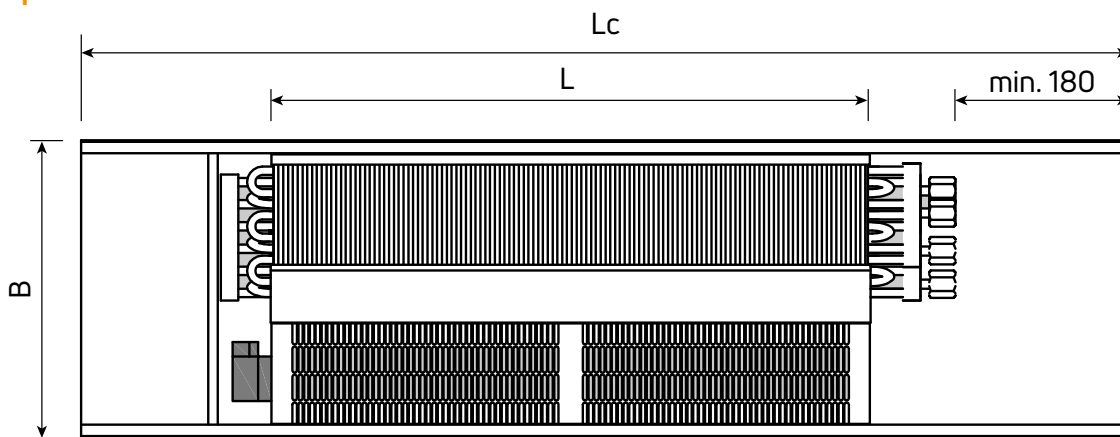
AQUILO F4C / F4V

(heating and cooling)

side view



top view



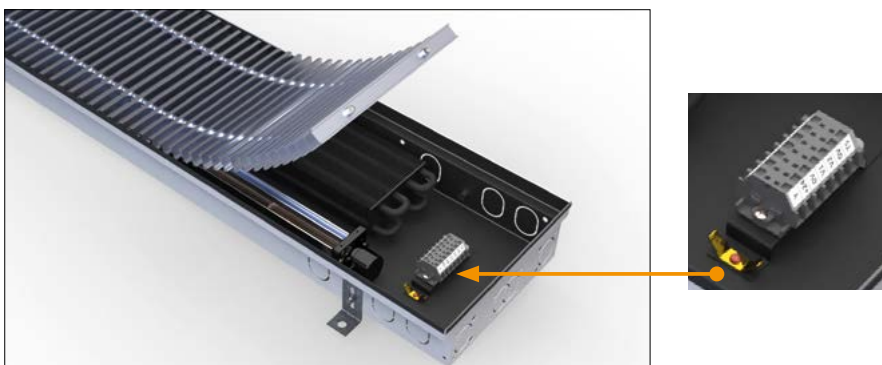
↑ F4C - 24 V DC
F4V - 230 V AC

Lc - convector's overall length
L - exchanger's length
B - width

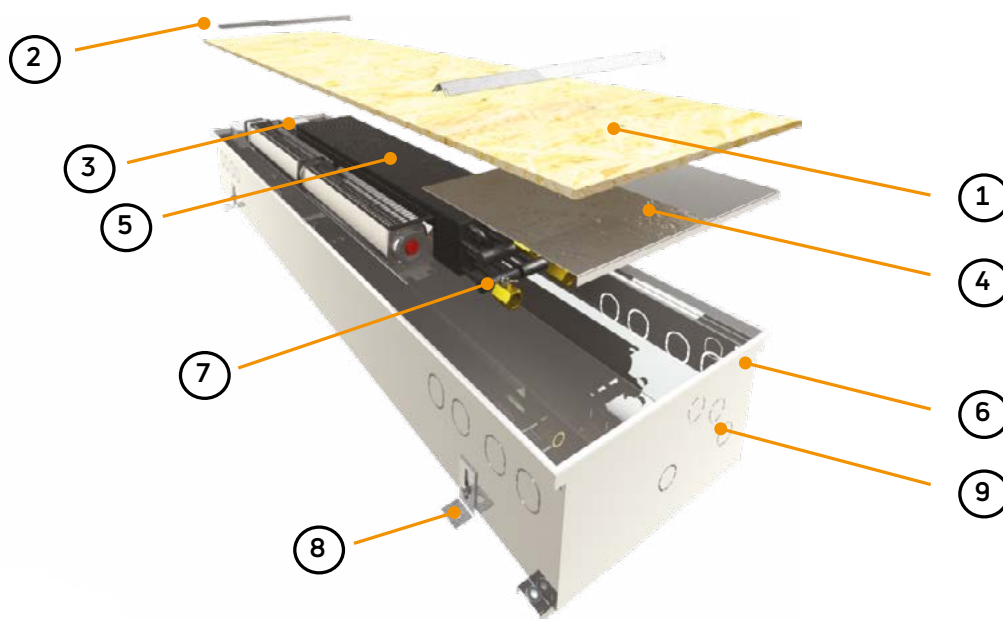
weight and water content

| | | |
|---------------|--------|------|
| width - B | [mm] | 340 |
| height | [mm] | 170 |
| weight | [kg/m] | 21.6 |
| water content | [l/m] | 10 |

view of electrical connection



(heating and cooling)

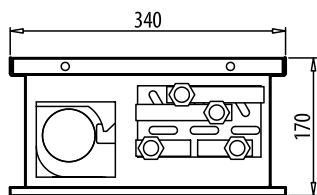


- 1 - Protective cover
- 2 - Braces to prevent distortion during floor laying
- 3 - Flush box for fan power supply.
Fan control module (only for the F4V version)
- 4 - Cover sheet to hide valves and connections.
- 5 - Heat exchanger (copper pipes, aluminum fins, coated with black varnish).

- 6 - Duct (double-side galvanized, and varnished).
- 7 - Air vent.
- 8 - Surface mounting brackets.
- 9 - Knock-outs for pipe connections.

(heating and cooling) - height 170 mm

Note: do not use the linear grilles with the F4C convectors!



DESCRIPTION - EXAMPLE : **AQUILO F4C 34 120 17 11**

name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____



| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|------------------------------------|--------------------------------------|--------------|--------------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 75/65/20 55/45/20 | 524 299 | 932 531 | 1165 664 | 21 | 26 | 32 | 1 | 20 |
| 1200 | 75/65/20 55/45/20 | 1049 598 | 1865 1063 | 2331 1329 | 22 | 28 | 34 | | |
| 1600 | 75/65/20 55/45/20 | 1558 888 | 2770 1579 | 3462 1973 | 23 | 30 | 36 | | |
| 2100 | 75/65/20 55/45/20 | 2221 1266 | 3949 2251 | 4936 2814 | 25 | 33 | 39 | 2 | 40 |
| 2400 | 75/65/20 55/45/20 | 2715 1548 | 4826 2751 | 6033 3439 | 26 | 35 | 41 | | |
| 2700 | 75/65/20 55/45/20 | 3255 1855 | 5786 3298 | 7233 4123 | 27 | 36 | 42 | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 24V DC.

Cooling mode

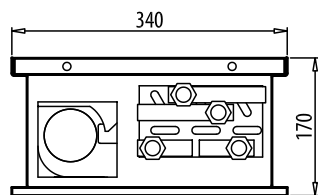
| Lc overall length [mm] | Cooling output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|---------------------------------------|--------------------------------------|------|------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 8/14/28 | 198 | 352 | 440 | 21 | 26 | 32 | 1 | 20 |
| 1200 | 8/14/28 | 396 | 705 | 881 | 22 | 28 | 34 | | |
| 1600 | 8/14/28 | 589 | 1046 | 1308 | 23 | 30 | 36 | | |
| 2100 | 8/14/28 | 839 | 1492 | 1865 | 25 | 33 | 39 | 2 | 40 |
| 2400 | 8/14/28 | 1026 | 1823 | 2279 | 26 | 35 | 41 | | |
| 2700 | 8/14/28 | 1230 | 2186 | 2733 | 27 | 36 | 42 | | |

Cooling output [W] in accordance with EN 16430 at 8/14/28 °C.

The fan is powered by 24V DC.

All Aquilo convectors available on request.

(heating and cooling) - height 170 mm



Note: do not use the linear grilles with the F4V convectors!

DESCRIPTION - EXAMPLE : **AQUILO F4V 34 120 17 11**

name _____
width [cm] _____
length [cm] _____
height [cm] _____
duct design _____

| Lc overall length [mm] | Heat output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|------------------------------------|--------------------------------------|--------------|--------------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 75/65/20 55/45/20 | 637 363 | 1132 645 | 1415 807 | 22 | 30 | 41 | 1 | 38 |
| 1200 | 75/65/20 55/45/20 | 1274 726 | 2264 1290 | 2830 1613 | 23 | 31 | 41 | | |
| 1600 | 75/65/20 55/45/20 | 1892 1078 | 3363 1917 | 4204 2396 | 25 | 33 | 42 | | |
| 2100 | 75/65/20 55/45/20 | 2697 1537 | 4795 2733 | 5994 3417 | 25 | 35 | 45 | 2 | 76 |
| 2400 | 75/65/20 55/45/20 | 3296 1879 | 5860 3340 | 7325 4175 | 27 | 35 | 45 | | |
| 2700 | 75/65/20 55/45/20 | 3952 2253 | 7026 4005 | 8782 5006 | 28 | 36 | 46 | | |

Heat output [W] in accordance with EN 16430 at 75/65/20 and 55/45/20 °C. Use the correction factor table on page 52 to calculate the heat output for other system parameters.

The fan is powered by 230V AC.

Cooling mode

| Lc overall length [mm] | Cooling output $t_s / t_r / t_l$ [°C] | width 340 [mm], fan's speed setting: | | | sound intensity [dB(A)], fan's speed setting: | | | number of motors | electric power [W] |
|------------------------|---------------------------------------|--------------------------------------|------|------|---|----|----|------------------|--------------------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | | |
| 850 | 8/14/28 | 293 | 522 | 652 | 22 | 30 | 41 | 1 | 38 |
| 1200 | 8/14/28 | 586 | 1042 | 1303 | 23 | 31 | 41 | | |
| 1600 | 8/14/28 | 871 | 1549 | 1936 | 25 | 33 | 42 | | |
| 2100 | 8/14/28 | 1242 | 2208 | 2760 | 25 | 35 | 45 | 2 | 76 |
| 2400 | 8/14/28 | 1518 | 2699 | 3374 | 27 | 35 | 45 | | |
| 2700 | 8/14/28 | 1820 | 3236 | 4045 | 28 | 36 | 46 | | |

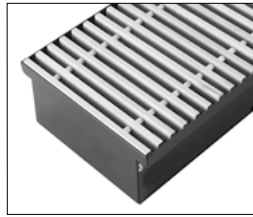
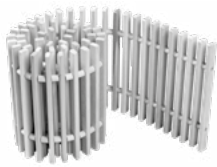
Cooling output [W] in accordance with EN 16430 at 8/14/28 °C.

The fan is powered by 230V AC.

All Aquilo convectors available on request.

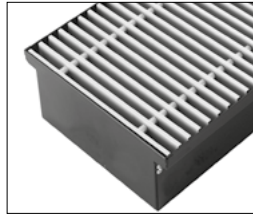
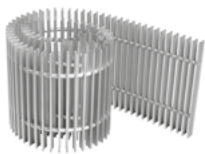
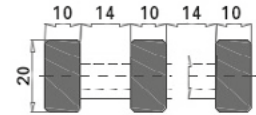
Decorative grilles

description



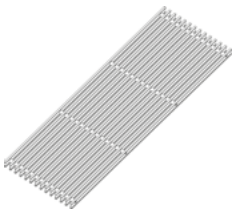
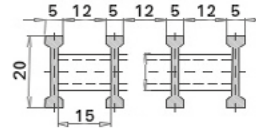
wooden, transverse

- Beech or oak.
- Natural, oiled or varnished
- Roll-up transverse grille with oak or beech cross members
- The wooden grille is supplied, as standard, in the standard PMO version, i.e. with no finishing frame
- Free air flow: 58%



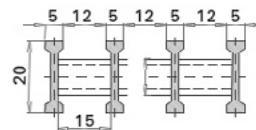
anodised duralumin, transverse

- Roll-up transverse grille with oxidized Duralumin cross members
- Available colours: natural, light brown, dark brown or black
- The grille is supplied, as standard, in the standard PMO version, i.e. with no finishing frame
- Free air flow: 71%



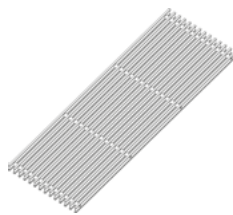
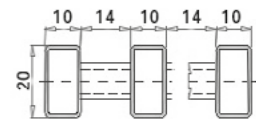
anodised duralumin, linear

- Linear grille with oxidized Duralumin cross members
- Available colours: natural, light brown, dark brown or black
- The grille is supplied, as standard, in the standard PMO version, i.e. with no finishing frame
- Free air flow: 71%



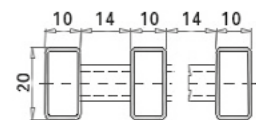
stainless steel, transverse

- Roll-up transverse grille with stainless steel cross members
- Steel variety: 14301
- The grille is supplied, as standard, in the standard PMO version, i.e. with no finishing frame
- Free air flow: 58%

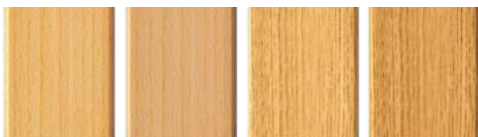


stainless steel, linear

- Linear grille with stainless steel cross members
- Steel variety: 14301
- The grille is supplied, as standard, in the standard PMO version, i.e. with no finishing frame
- Free air flow: 58%



wooden grille



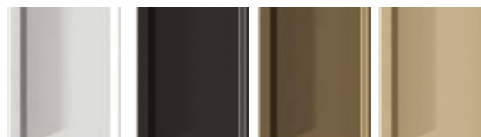
natural beech

beech varnished

natural oak

oak varnished

anodised duralumin grilles



natural

black

dark brown

light brown

steel grille



stainless steel

Note: Linear grilles to be used only with the FMS convectors. The maximum length of the linear grille as a whole is 290 cm! Above this length, the grille consists of min. two parts.

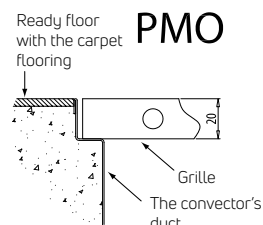
Decorative grilles

decorative grilles

Decorative grilles for the Aquilo trench convectors are available in versions without a decorative finishing frames or with L, U or Z-type frames. Due to different lengths of the grille members in the version with a decorative finishing frame or a no-frame version (for the convectors of the same width), all decorative frames must be ordered at the same times as with the grilles. L, U and Z-type frames are available in Duralumin only and in all colour variants – the same as for Duralumin grilles.

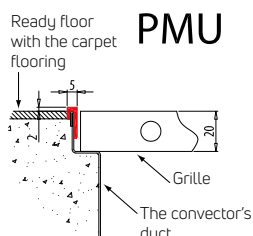
Versions with no decorative frame

The use of decorative grilles without a decorative frame is possible only when the trench convector has been carefully installed, and especially carefully positioned relative to the level of the finished floor. This version assumes a perfect floor finish around the trench convector with a trench of exactly the same width.



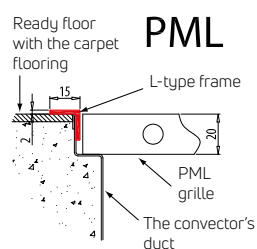
Versions with the U-type decorative frame

The decorative grille with U-type decorative frame frames the trench convector within the surrounding floor. U-type frames cover the edge of the convector's trench. It is recommended for installations when the user wants to emphasise the outline of the duct. U-type frames are delivered with the decorative grille in suitably sized segments to mount on the duct's edges during the installation of the grille. U-type frames should be sealed with silicone.



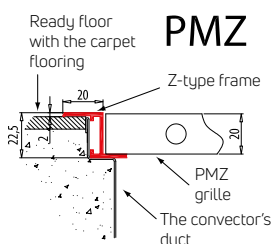
Versions with the L-type decorative frame

The decorative grille with L-type decorative frames frame the trench convector within the surrounding floor. L-type frames cover the contact area between the duct and the floor and is primarily used for installations where the gap between the duct and the surrounding floor is uneven. L-type frames are supplied along with the decorative grille, in adequately trimmed segments to be mounted onto the convector's duct while the grille is being positioned. L-type frames can be easily fixed to the floor with the double-sided self-adhesive tape.



Versions with the Z-type decorative frame

The decorative grille with the Z-type decorative frame optically frames the trench convector within the surrounding floor. The Z-type frame covers the contact area between the duct and the floor, as well as creates the base for positioning the decorative grilles. It is mainly used for places where the convector's duct is set deeper ("sunk") than floor level, as well as in cases where the convector has not been evenly positioned horizontally in the surrounding floor, and finally in places where the gap between the trench convector's duct and the surrounding floor is uneven. The Z-type frame is supplied as a set along with the decorative grille. Floor fixing with the silicone adhesive is recommended.



NOTE:

The maximum length of the „L” type decorative frame as a whole is 290 cm, and the „U” and „Z” type decorative frames are 390 cm! Above these lengths, the frame will be composed of min. two parts.

The moisture content for beech or natural oak Aquilo convector grilles is approx. 10%. To enable the Clients colouring of their own choice, the grilles are not sold protected by preliminary varnishing. However, during storage or after installation, due to the humidity conditions of the environment, raw wooden grilles may be extended by as much as 2-3 mm or shortened by up to 10 mm for each meter of its length. To avoid the adverse effects of this natural process, the grilles need to be protected against moisture. Painting with oil or varnishing eliminates the possibility of the negative effects of swelling or shrinking of the wooden grilles. In case grilles become moist, they should be varnished only after they become entirely dry and return to their required length, appropriate to the duct's dimensions. If the length of the grill is appropriate to the length of the steel duct, it should be secured immediately to avoid the effect of its undesirable shortening.

Decorative grilles

decorative grilles

- L, U and Z-type decorative frames are available in the same colours as the grilles.
- L, U and Z-type frames must be ordered at the same time as the grille!
- The width of the grille without a frame (PMO) differs from the one with an L-type frame (PML), U-type frame (PMU) or Z-type-frame (PMZ), for the same width of the convector. Therefore, the PMO grille is not suitable for the PML, PMU or PMZ set, and – consequently – the PML or PMU grille is not suitable for the PMZ set.
- The width of the grilles are as follows
 - PMO = B - 6 mm;
 - PMU = B - 12 mm;
 - PML = B - 12 mm;
 - PMZ = B - 20 mm;
 - where: B - the total width of the convector.
- Maximum length of the L strip in one section is 280 cm
- Maximum length of the U and Z strips in one section is 350 cm
- Installation with the Z-type frame version requires the duct to be positioned at least 3-5 mm below the surface of the finished floor.
- If, due to the improper mounting or the mechanical damage, the convector's duct is deformed or damaged, the manufacturer will not be held responsible for difficulties positioning the decorative frames or grilles.

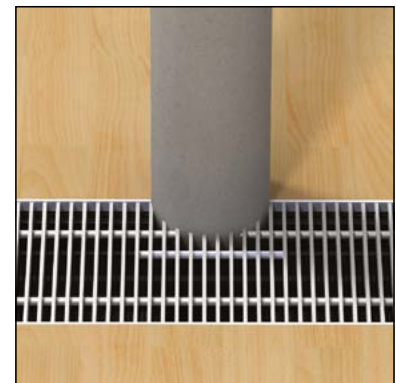
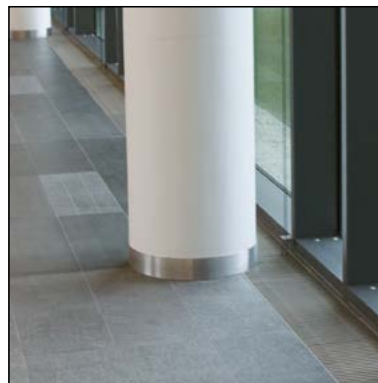
The Z-type frame is delivered pre-assembled. It should be fixed with silicone to the finished floor. L-type frames are delivered as individual components, with double-sided self-adhesive tape on the inside. The U-type frame is delivered disassembled. If any change in the shape of the convector's duct occurs, due to incorrect mounting or mechanical damage, the Manufacturer will not bear responsibility for any potential problems with mounting of the frames.

Supports for linear grilles

To preserve the integrity of linear grilles (stability and rigidity), supports are required. They are delivered in quantities suitable for the installation. For transport and installation, the supports are secured with plastic strips which can be cut off after the grille has been successfully fitted.



Note: linear grilles can only be used with FMS convectors. The maximum length of the linear grille as a whole is 290 cm! Above this length, the grille consists of min. two parts.

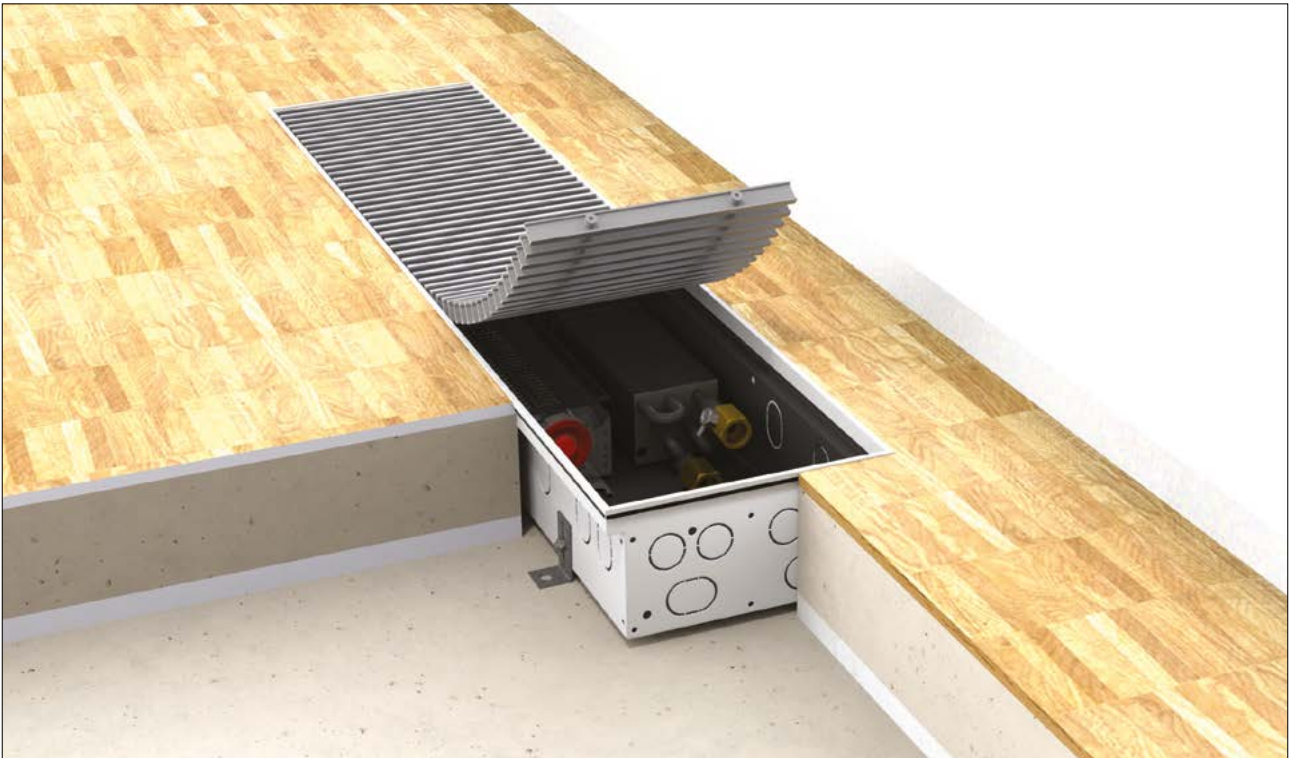


Grilles - weight [kg/m]

| Type | PMO | | | | | | | | PMU, PML | | | | | | PMZ | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|------|-----|----------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|------|------|
| Width [mm] | 170 | 200 | 230 | 250 | 300 | 340 | 420 | 170 | 200 | 230 | 250 | 300 | 340 | 420 | 170 | 200 | 230 | 250 | 300 | 340 | 420 |
| Duralumin | 1.9 | 2.2 | 2.4 | 2.6 | 3.0 | 3.4 | 4.0 | 2.6 | 2.9 | 3.2 | 3.3 | 3.8 | 4.1 | 4.8 | 3.1 | 3.3 | 3.6 | 3.8 | 4.2 | 4.6 | 5.3 |
| Beech, oak | 1.5 | 1.7 | 1.9 | 2.0 | 2.4 | 2.6 | 3.2 | 2.2 | 2.5 | 2.7 | 2.8 | 3.1 | 3.4 | 3.9 | 2.7 | 2.9 | 3.1 | 3.3 | 3.6 | 3.9 | 4.5 |
| Stainless steel | 5.1 | 5.8 | 6.6 | 7.2 | 8.5 | 9.5 | 11.6 | 5.6 | 6.4 | 7.2 | 7.8 | 9.1 | 10.1 | 12.2 | 5.9 | 6.7 | 7.5 | 8.0 | 9.3 | 10.4 | 12.5 |

PMU anodised aluminium grille - examples

example of the installation of a radiator with PMU anodised aluminium grille

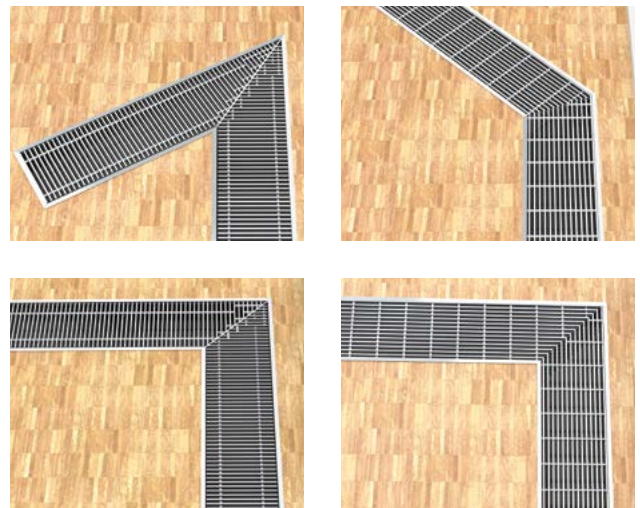


Customized designs

examples of non-standard grilles

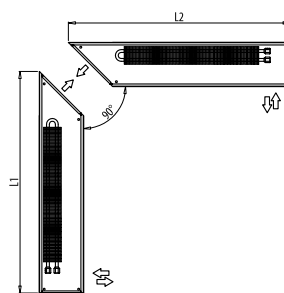
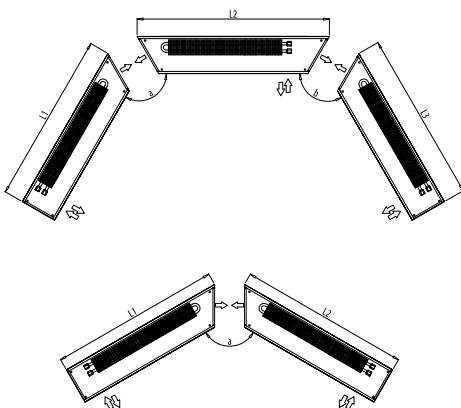


duct on supports



non-standard convectors

Corner type trench convectors are available on request. The duct is manufactured after the design has been accepted by the customer.



The ducts are connected from the front with 4 x M6 bolts.

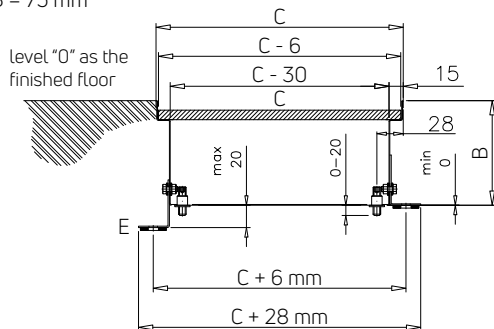
Note:
stainless steel grilles are not available for corner versions

Connections to pipe systems

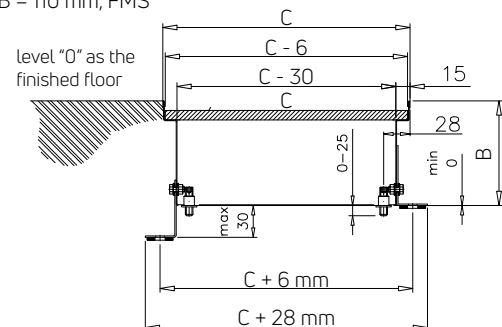
Installation instructions for the convector duct

- Prepare a suitable place on the subfloor of the following dimensions:
 - width of the convector duct + min. 80 mm,
 - length of the convector duct + min. 40 mm,
 - depth of the convector duct + 2 ÷ 25 mm (as measured from the level of the finished floor).
- Screw levelling bolts into pre-defined holes on the bottom of the duct, and attach the floor fixing brackets to the outside of the duct (included in the installation kit).
- Position your trench convector in the previously prepared place in the subfloor. Lay soundproofing insulation (e.g. mineral wool, foamed polystyrene, foam) between the convectors duct and the subfloor.
- Level and stabilise the convector duct. The top edge of the tub must be level with the "0" level of the finished floor.
- Connect the supply and return pipe from the heating system according to the system design. For models with fans (F1S,...), connect all necessary electric wiring. Cover the hydraulic and electric connectors with the cover plate included in the installation kit.
- Pressure test the convector to ensure there are no leaks.
- Cover the convector duct with the protective chipboard until all construction work has been completed.
- Fill the gaps between the convector duct and the floor slab with concrete or low expansion foam, using obligatory struts that are standard trench convectors accessories.
- Once the the project has been finished remove the chipboard. Maintain installation spacers.
- When the concrete and foam are completely cured, clean the inside of the duct and the convector itself.
- Unroll the roll-up decorative grille on the convector.
- During works related to the assembly of floors, remember to absolutely use struts that are standard trench convectors accessories (this applies in particular to long radiators).

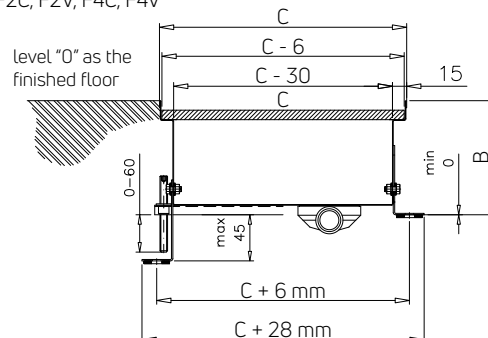
B = 75 mm



B = 110 mm, FMS



F2C, F2V, F4C, F4V



maintenance and cleaning

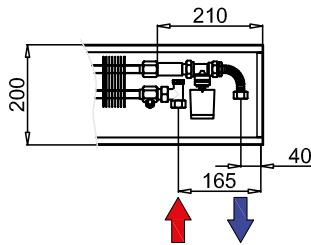
Before the heating season starts:

- Remove the grille.
- Clean the heat exchanger (coil) elements with a soft brush.
- Use a vacuum cleaner to remove dust from the bottom of the casing.
- Clean any remaining dust with a damp cloth.
- Put the cover grille back.

Connections to pipe systems

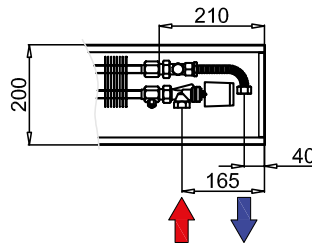
FMS-20

height: 90, 110, 140, 190 mm



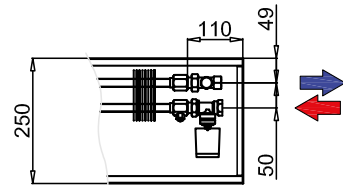
FMS-20

height: 90, 110, 140, 190 mm



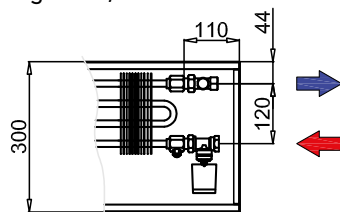
FMS-25

height: 90, 110, 140, 190 mm



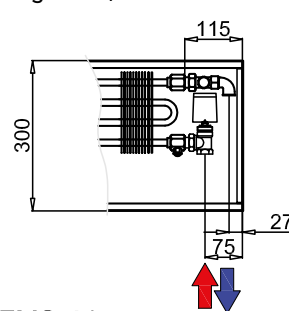
FMS-30

height: 90, 110 mm



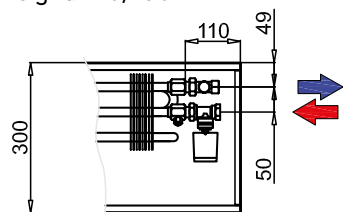
FMS-30

height: 90, 110 mm



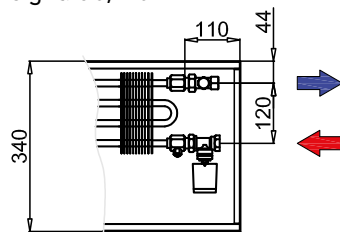
FMS-30

height: 140, 190 mm



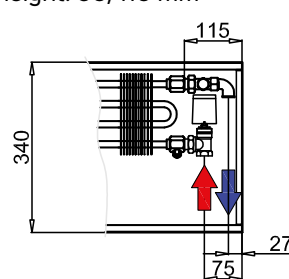
FMS-34

height: 90, 110 mm



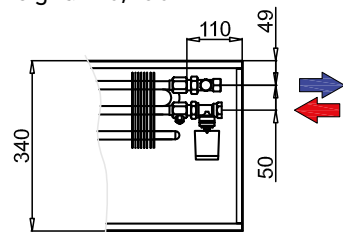
FMS-34

height: 90, 110 mm



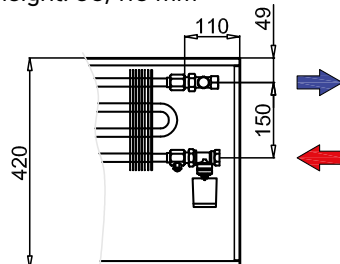
FMS-34

height: 140, 190 mm



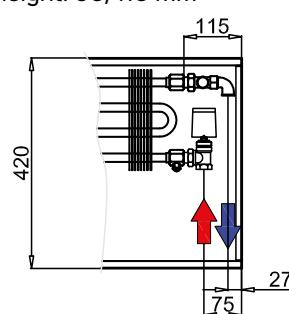
FMS-42

height: 90, 110 mm



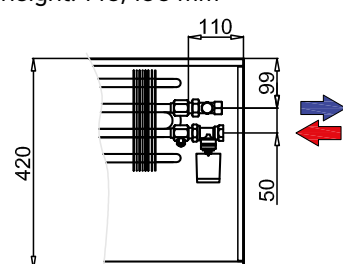
FMS-42

height: 90, 110 mm



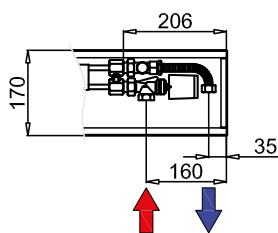
FMS-42

height: 140, 190 mm

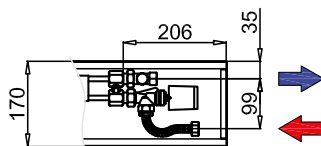


Connections to pipe systems

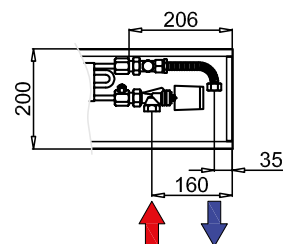
F1S-17
height: 75 mm



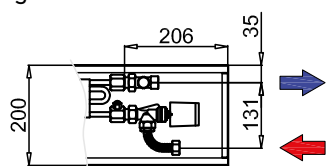
F1S-17
height: 75 mm



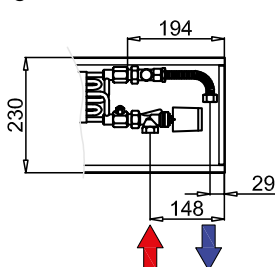
F1S-20
height: 75 mm



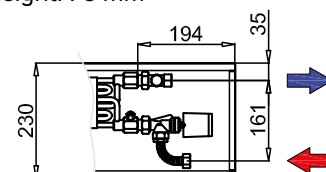
F1S-20
height: 75 mm



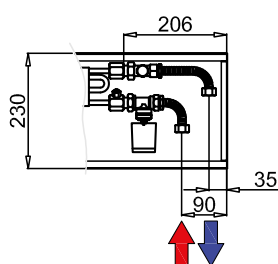
F1S-23
height: 75 mm



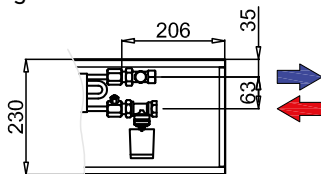
F1S-23
height: 75 mm



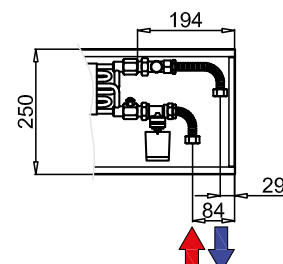
F1S-23
height: 110 mm



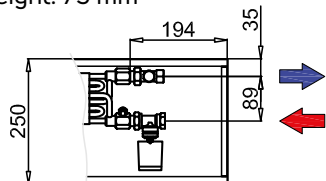
F1S-23
height: 110 mm



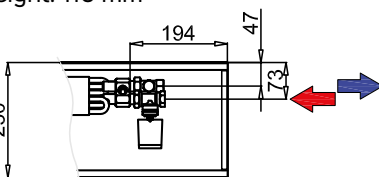
F1S-25
height: 75 mm



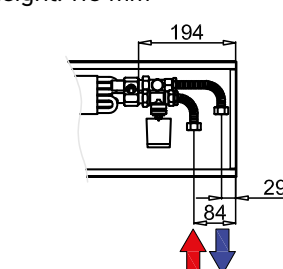
F1S-25
height: 75 mm



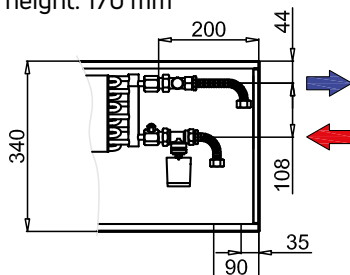
F2C-23
height: 110 mm



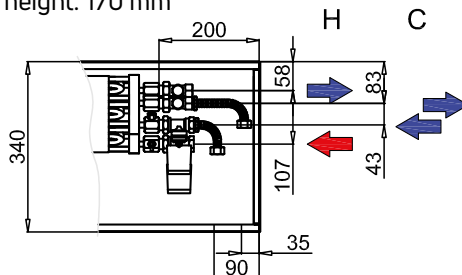
F2C-23
height: 110 mm



F2C-34 / F2V-34
height: 170 mm



F4C-34 / F4V-34
height: 170 mm



Electrical installation

note

The electrical installation of Aquilo trench convectors should be carried out by a qualified electrician in accordance with current, relevant standards and regulations. The unit should only be connected to the main electricity supply once all connections have been properly checked.

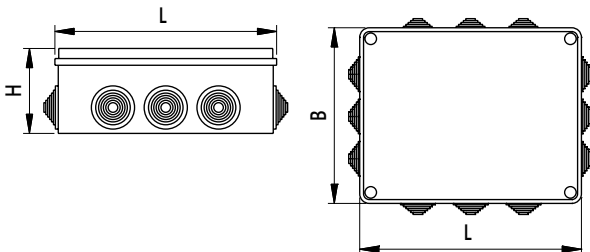
electrical connections for trench convectors Aquilo F1S, F2C/F2V and F4C/F4V

The transformer electrical circuit should be equipped with a D6A interrupter. The transformer should be connected to the electrical supply with 3x1.5 mm² cable (e.g. YDY or YKY type). The RAS transformer connection to the thermostat equipped with a 3-level rotary switch should be made with a 5 x 1.0 mm² cable. The Aquilo convector duct's cables should be connected using the terminals in the electrical installation box (1 or 2, depending on the number of motors).

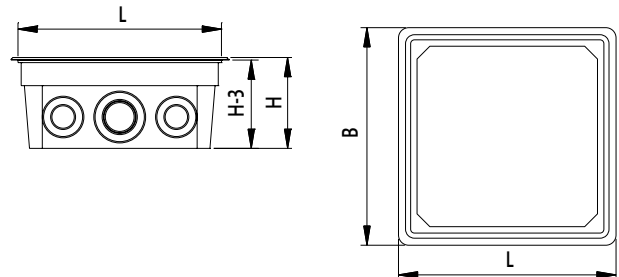
The power supply unit intended for mounting on a DIN rail is installed directly in the electrical switchboard.

RAS transformer - dimensions

version for surface mounting



version for flush mounting



| type | length L [mm] | width B [mm] | height H [mm] | weight [kg] |
|--------------|---------------|--------------|---------------|-------------|
| RAS-030-M-01 | 230 | 185 | 90 | 1.2 |
| RAS-060-M-01 | 230 | 185 | 90 | 1.3 |

| type | length L [mm] | width B [mm] | height H [mm] | weight [kg] |
|--------------|---------------|--------------|---------------|-------------|
| RAS-030-M-02 | 230 | 230 | 84 | 1.3 |
| RAS-060-M-02 | 230 | 230 | 84 | 1.4 |

RAS transformers

proper selection of RAS transformers

The Aquilo F1S, F2C and F4C convector fan motors are powered by 24V, and that is why additional RAS transformers are required together with a wall-mounted regulating device connected to a 3-speed fan control.

RAS transformers (depending on type) can control only the specified limited number of fans motors and cannot control more than they are designed for.

NOTE:

When it is necessary to use transformers and control modules, it is obligatory to use the types listed below in order to ensure correct operation of trench convectors.

A RAS-xxx-M-0x transformer in surface-mounted, flush-mounted, and DIN rail-mounted versions*

| type | power [W] | max. number of connected motors | | | recommended cable for the convector's connection |
|--------------|-----------|---------------------------------|--------------------|---------------|--|
| | | F1S (08) | F1S (11), F2C (11) | F2C (17), F4C | |
| RAS-030-M-0x | 30 | 3 | 2 | 1 | 3 x 1.5 mm ² |
| RAS-060-M-0x | 60 | 7 | 4 | 3 | |
| RAS-120-M-0x | 120 | 15 | 7 | 6 | |
| RAS-240-M-0x | 240 | 30 | 15 | 12 | |

* RAS-120-M-0x and RAS-240-M-0x are only available as DIN rail-mounted versions.

RMS control module for the F2V and F4V convectors

| type | length L [mm] | width B [mm] | height H [mm] | weight [kg] | power [W] | recommended cable for the RMS module connection |
|--------------|---------------|--------------|---------------|-------------|-----------|---|
| RMS-010-M-01 | 230 | 185 | 90 | 1.1 | 10 | 3 x 1.5 mm ² |
| RMS-010-M-02 | 230 | 230 | 84 | 1.2 | 10 | |
| RMS-010-M-03 | 100 | 90 | 65 | 1.0 | 10 | |

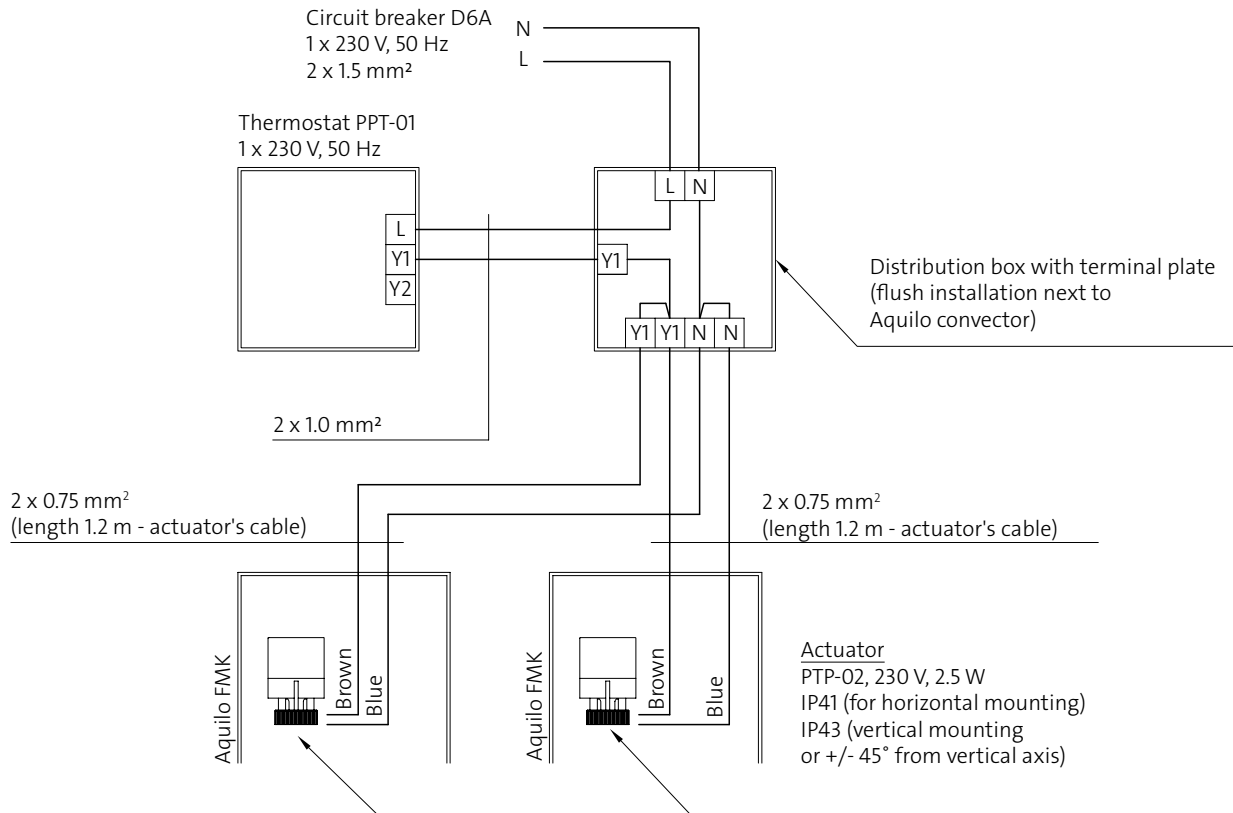
trench convectors' heat output regulation (Aquilo F1S, F2C/F2V and F4C/F4V)

Heat output can be controlled either by controlling water temperature or air temperature (fan versions only). Water temperature control is made using a thermostatic valve and head, and optionally via an actuator-supported thermostatic valve.

Heat output control using air temperature (Aquilo F1S, F2C/F2V and F4C/F4V convectors) is made by controlling fan speed. Fan operation can be controlled manually by the user or automatically with a thermostatic control.

Wiring diagrams (examples)

FMS convector with room thermostat PPT-01 and thermoelectric head (actuator) PTP-02

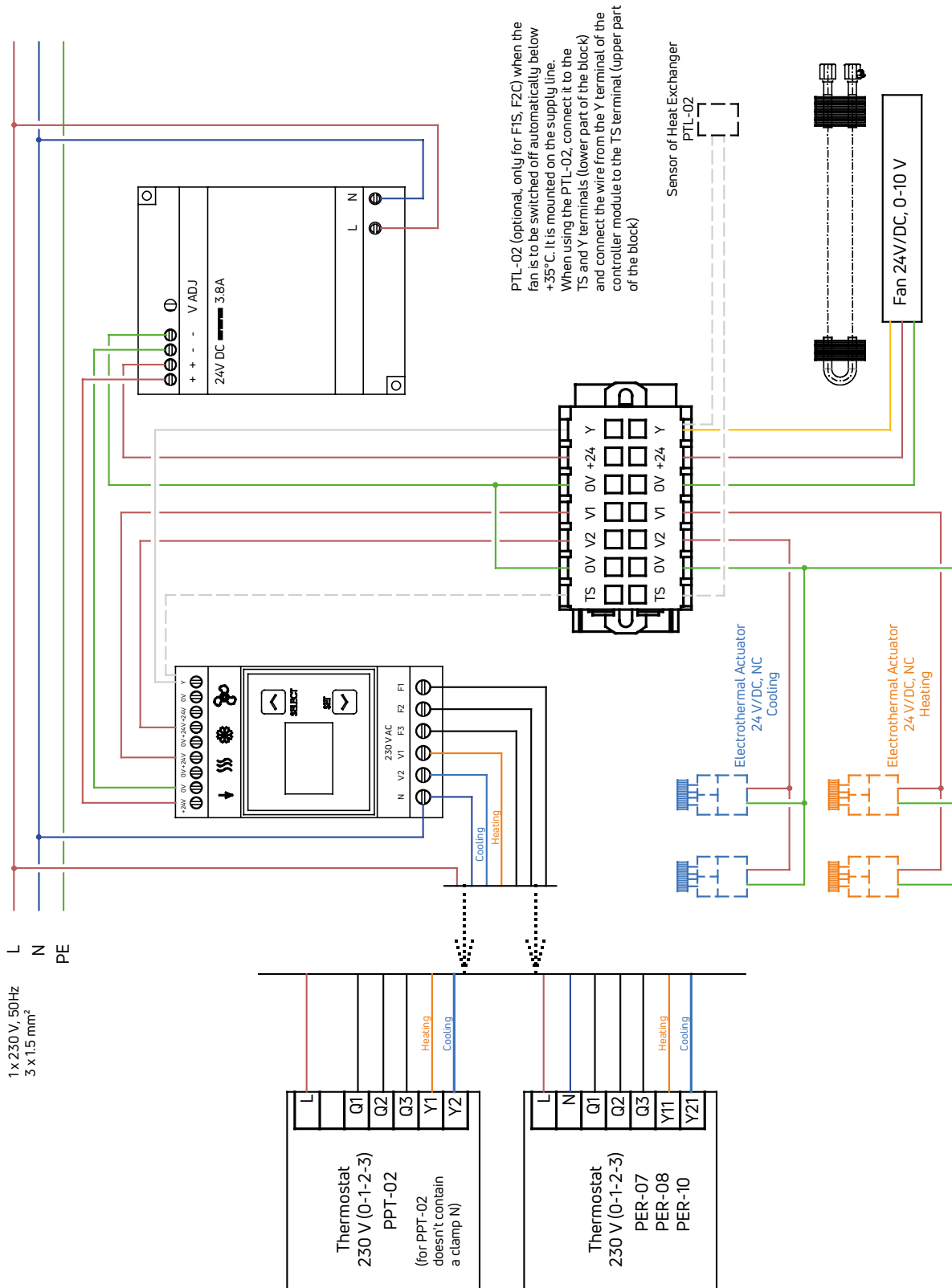


Note:

When mounting the actuator directly at the convector's duct, the residual current circuit breaker is necessary.
One PPT-01 thermostat can support max. 24 electric actuators.

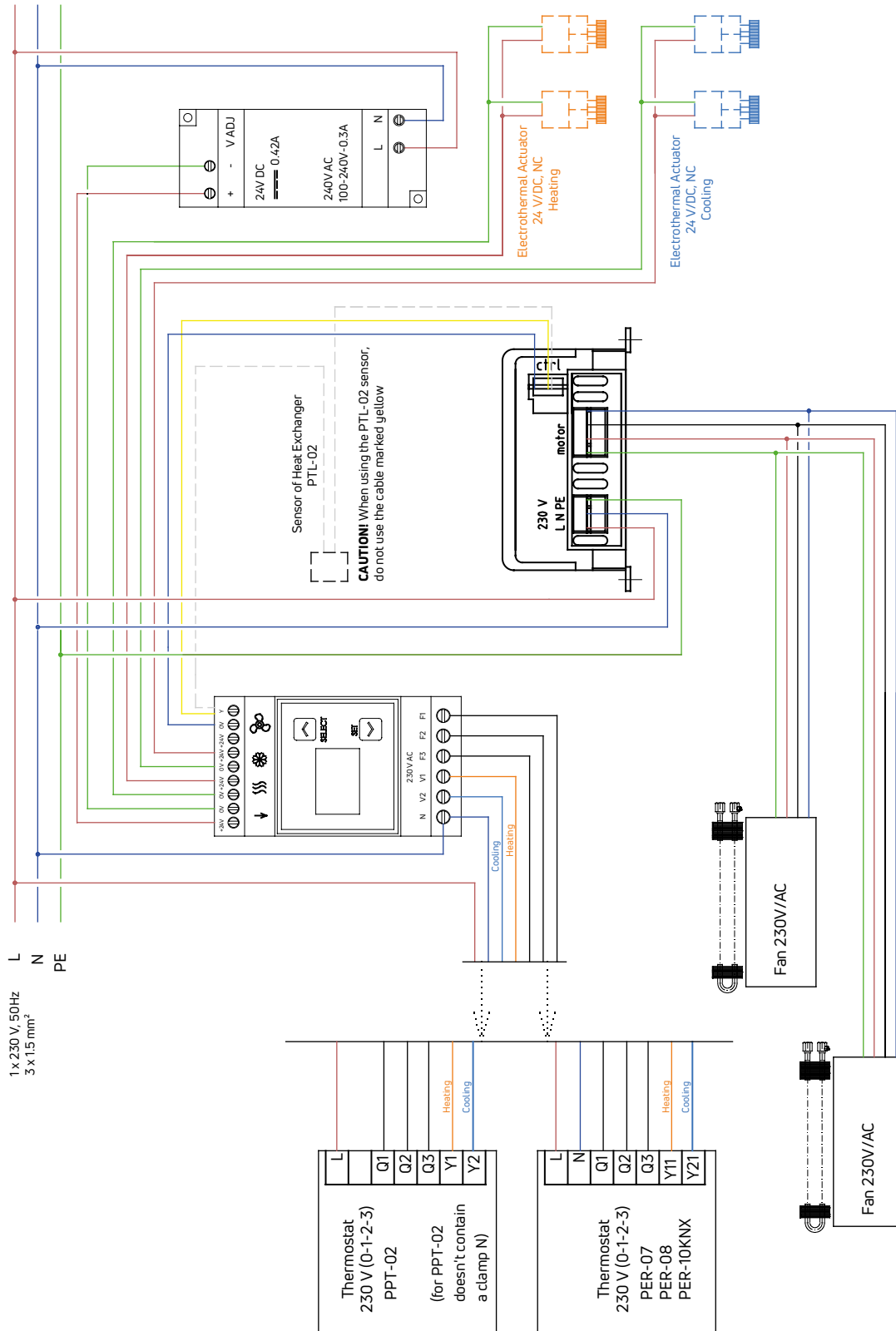
Wiring diagrams (examples)

F1S, F2C and F4C convertors with room thermostat and RAS transformer



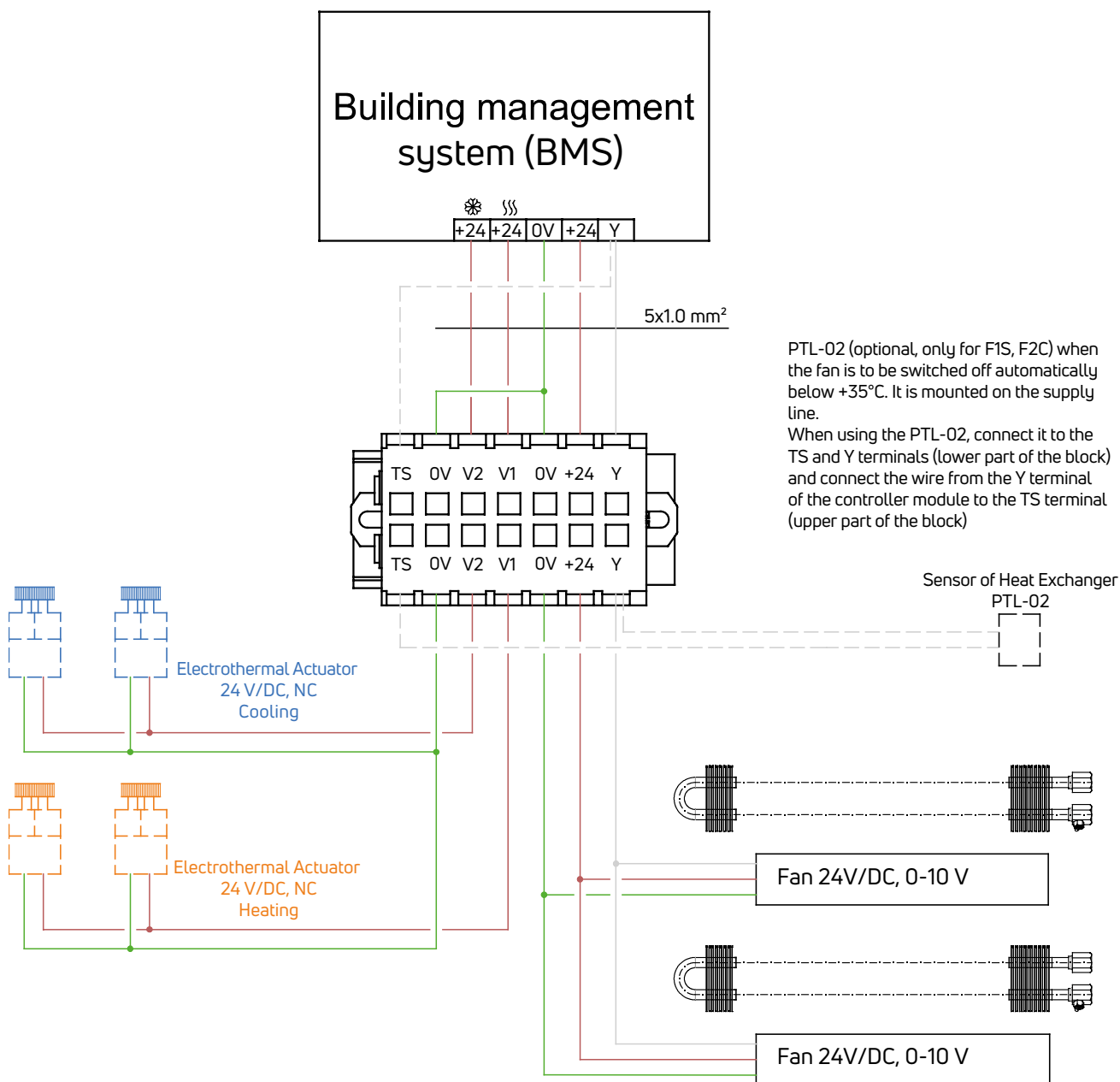
Wiring diagrams (examples)

F2V or F4V convector with room thermostat and RMS control module

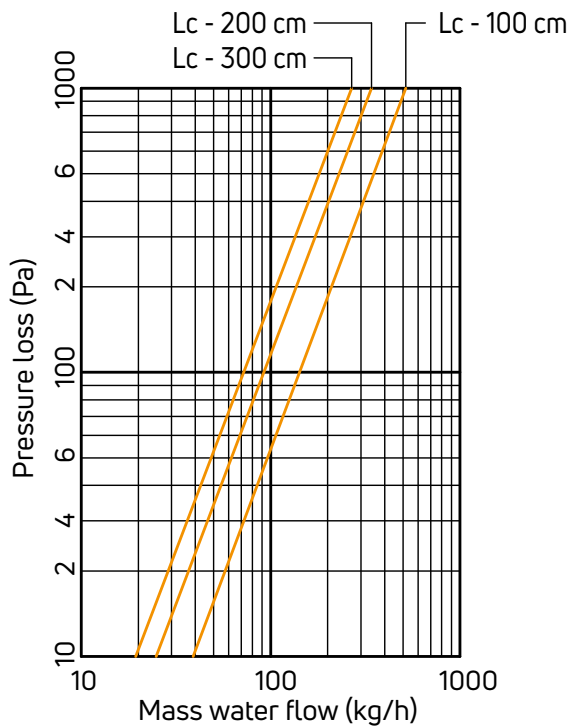


Wiring diagrams (examples)

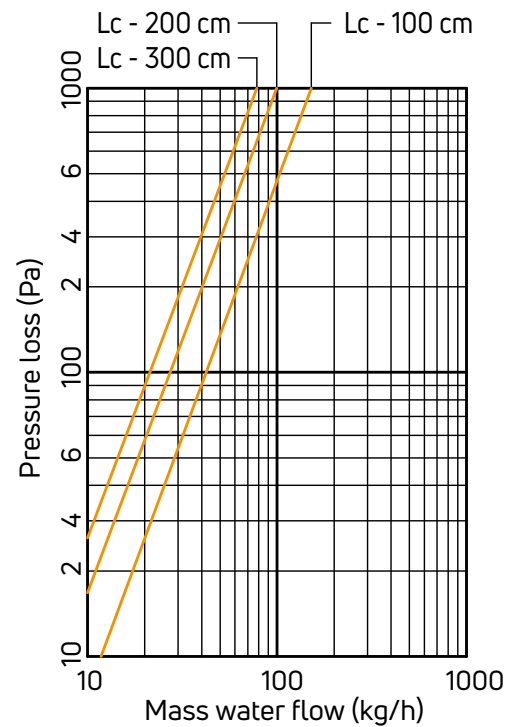
F1S, F2C and F4C convectors controlled by BMS



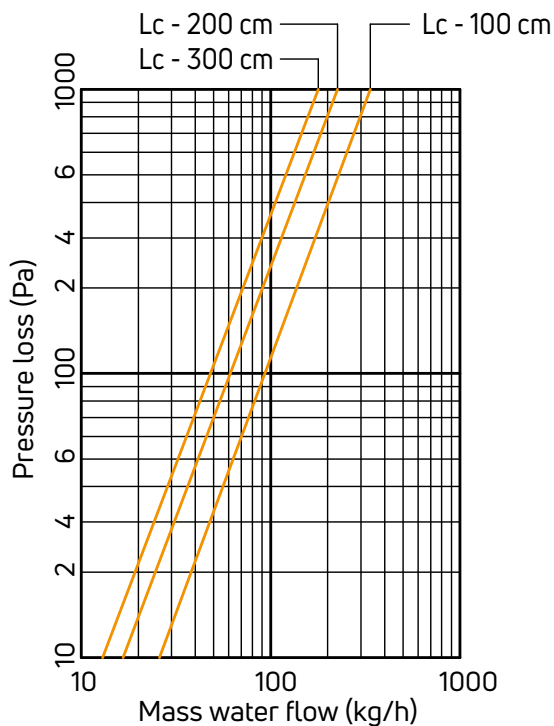
Hydraulic characteristics



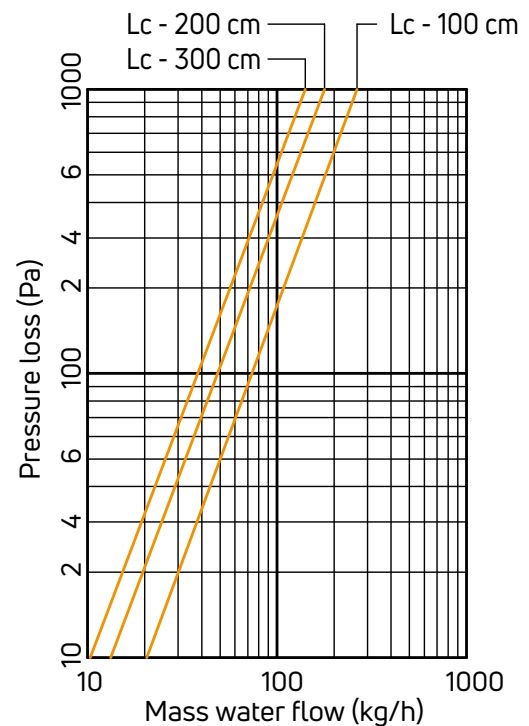
- 1 FMS-20-LLL-09, FMS-20-LLL-11
- 2 FMS-25-LLL-09, FMS-25-LLL-11



- 1 FMS-30-LLL-09, FMS-30-LLL-11
- 2 FMS-34-LLL-09, FMS-34-LLL-11

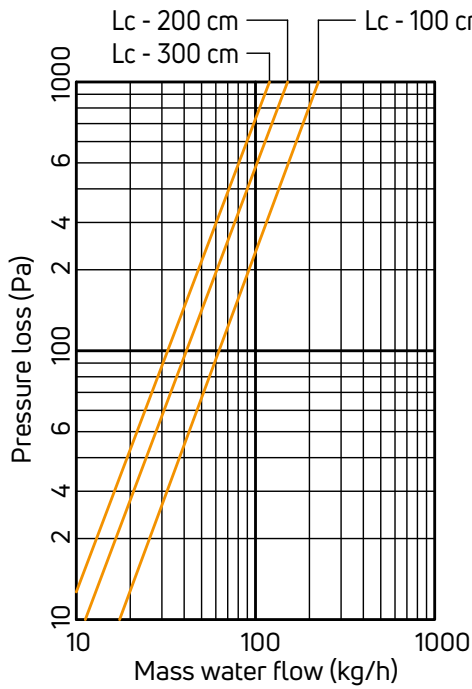


- 1 FMS-42-LLL-09, FMS-42-LLL-11
- 2 FMS-20-LLL-14, FMS-20-LLL-19
- 3 FMS-25-LLL-14, FMS-25-LLL-19

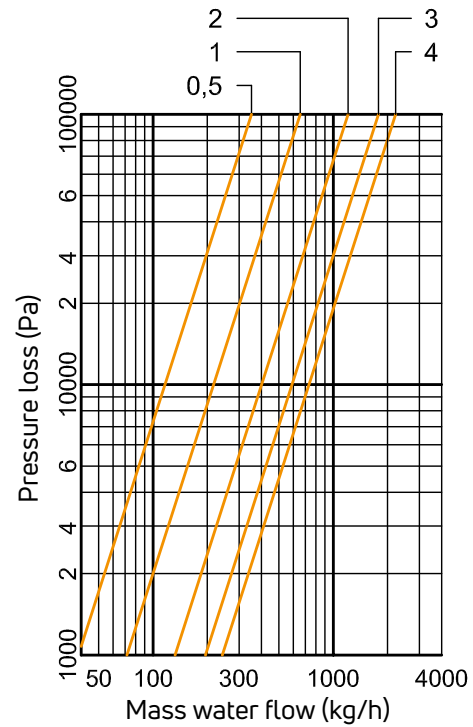


- 1 FMS-34-LLL-14, FMS-34-LLL-19

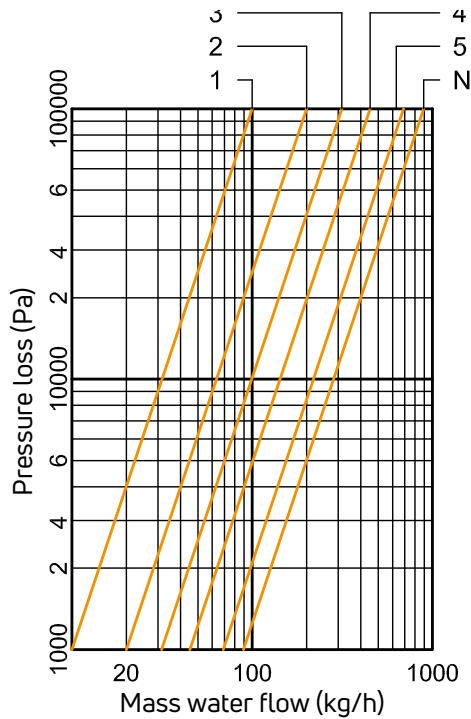
Hydraulic characteristics



1 FMS-42-LLL-14, FMS-42-LLL-19

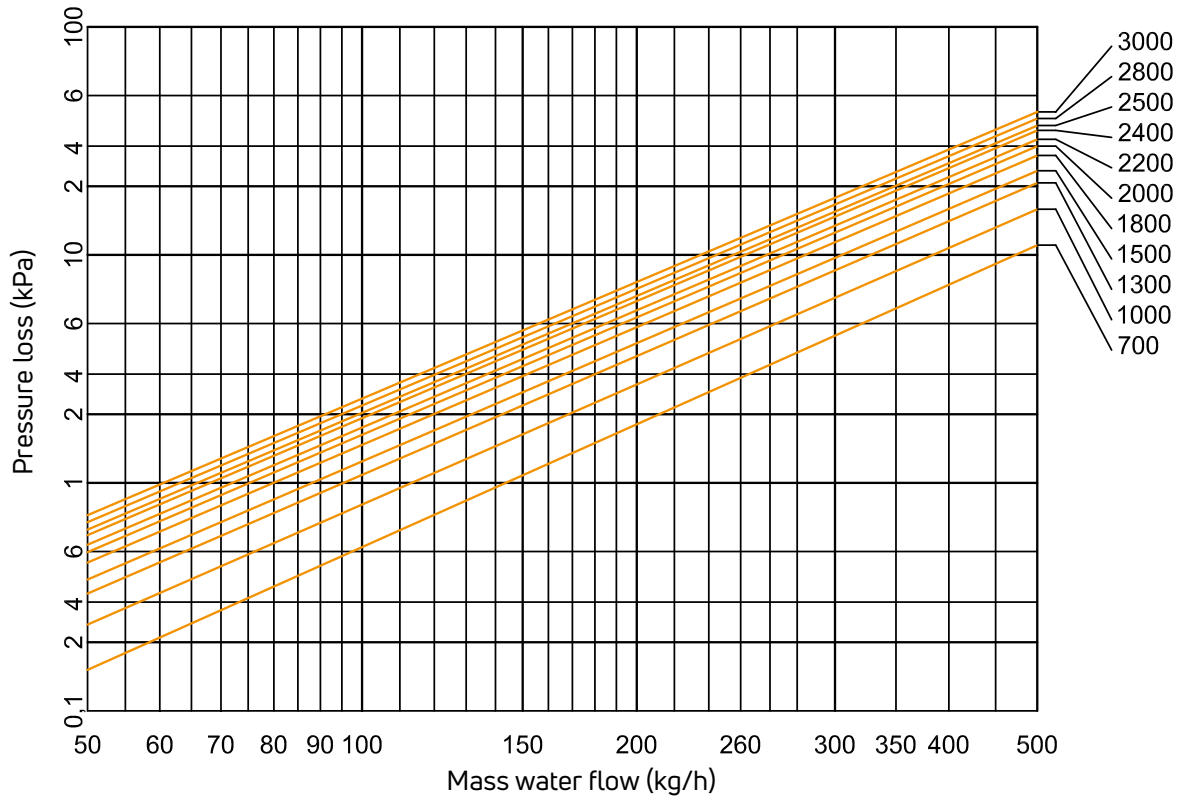


1 PRS-01, PRS-02

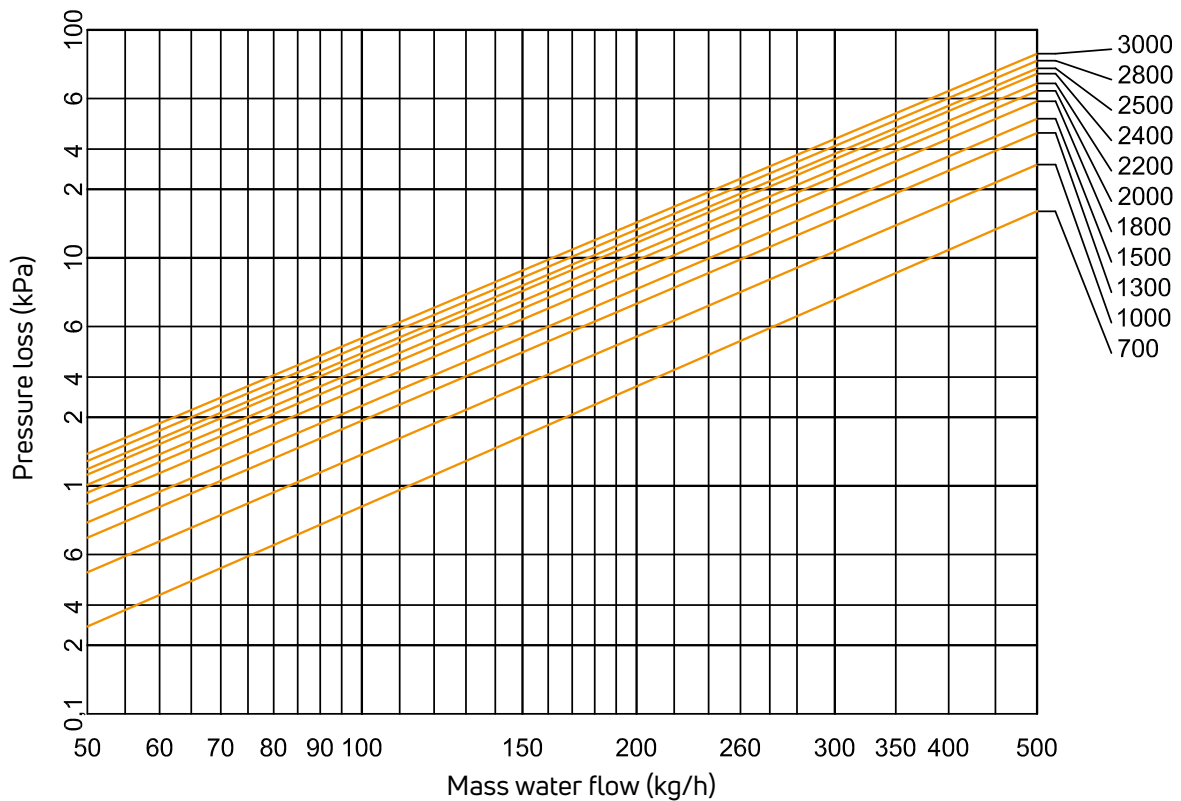


1 PTV-01, PTV-02

Hydraulic characteristics

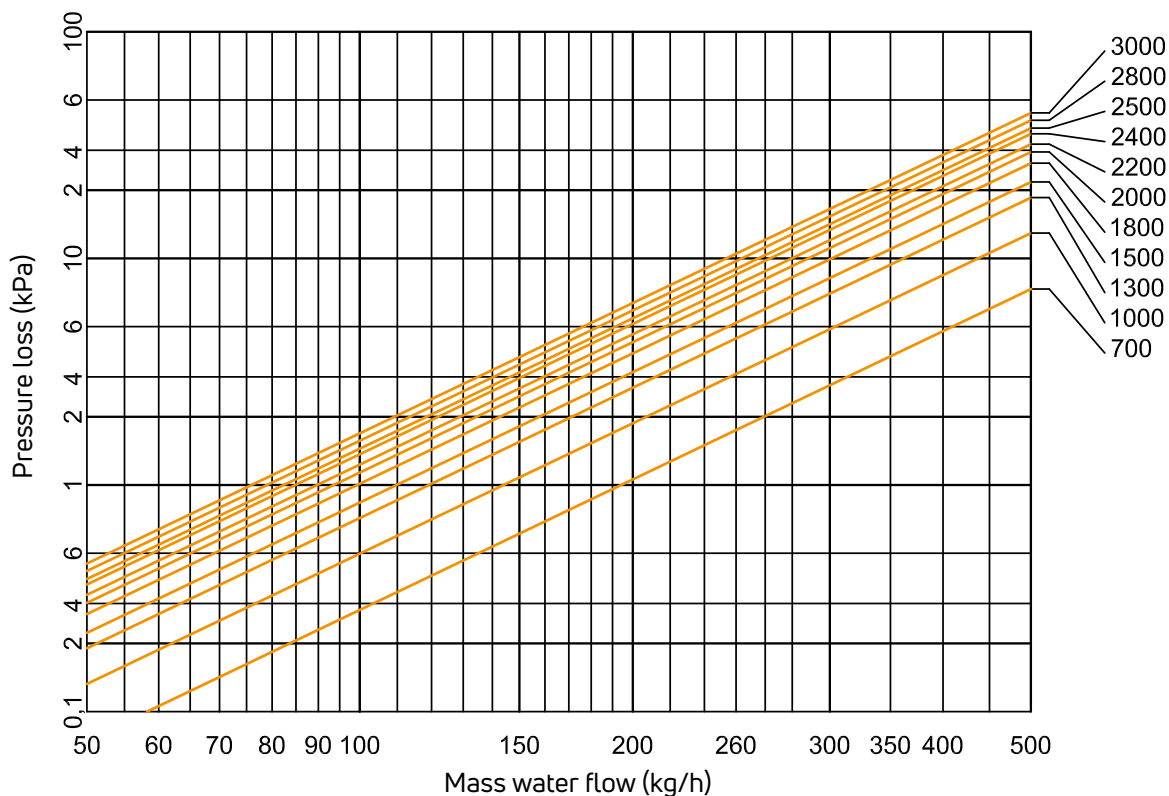


1 F1S-17-LLL-08

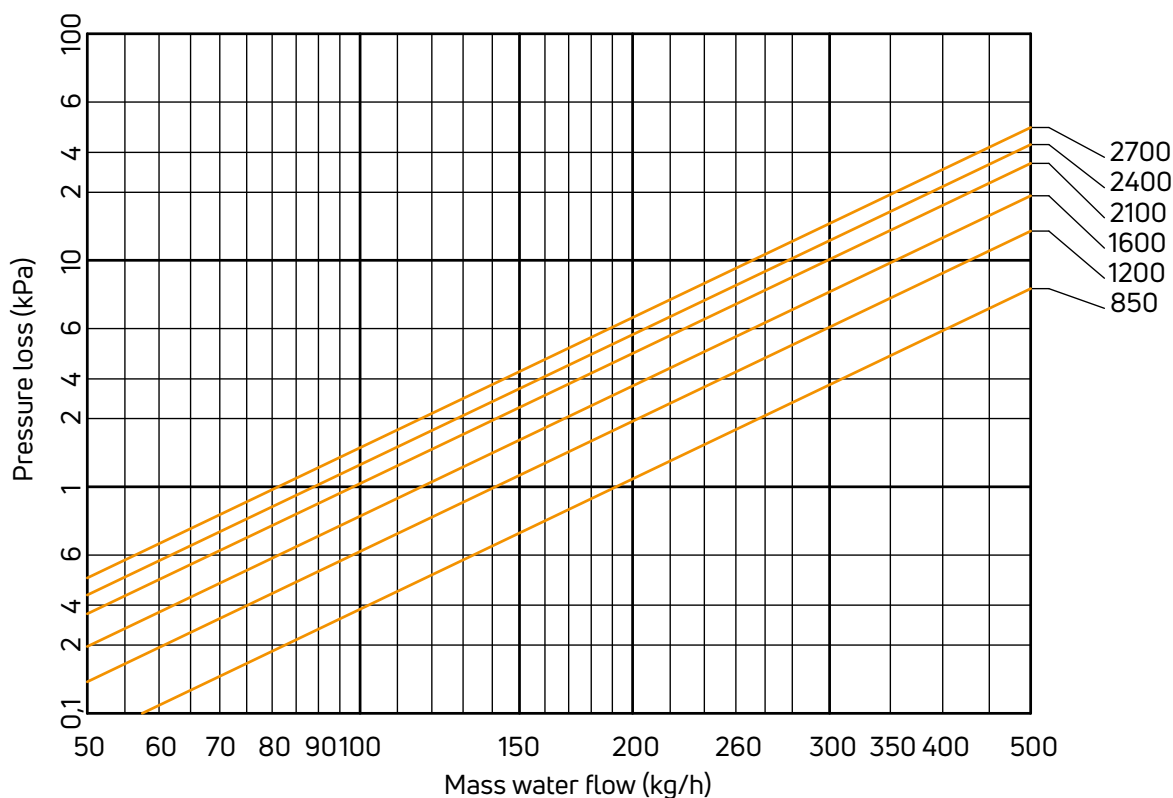


1 F1S-20-LLL-08
2 F1S-23-LLL-11

Hydraulic characteristics

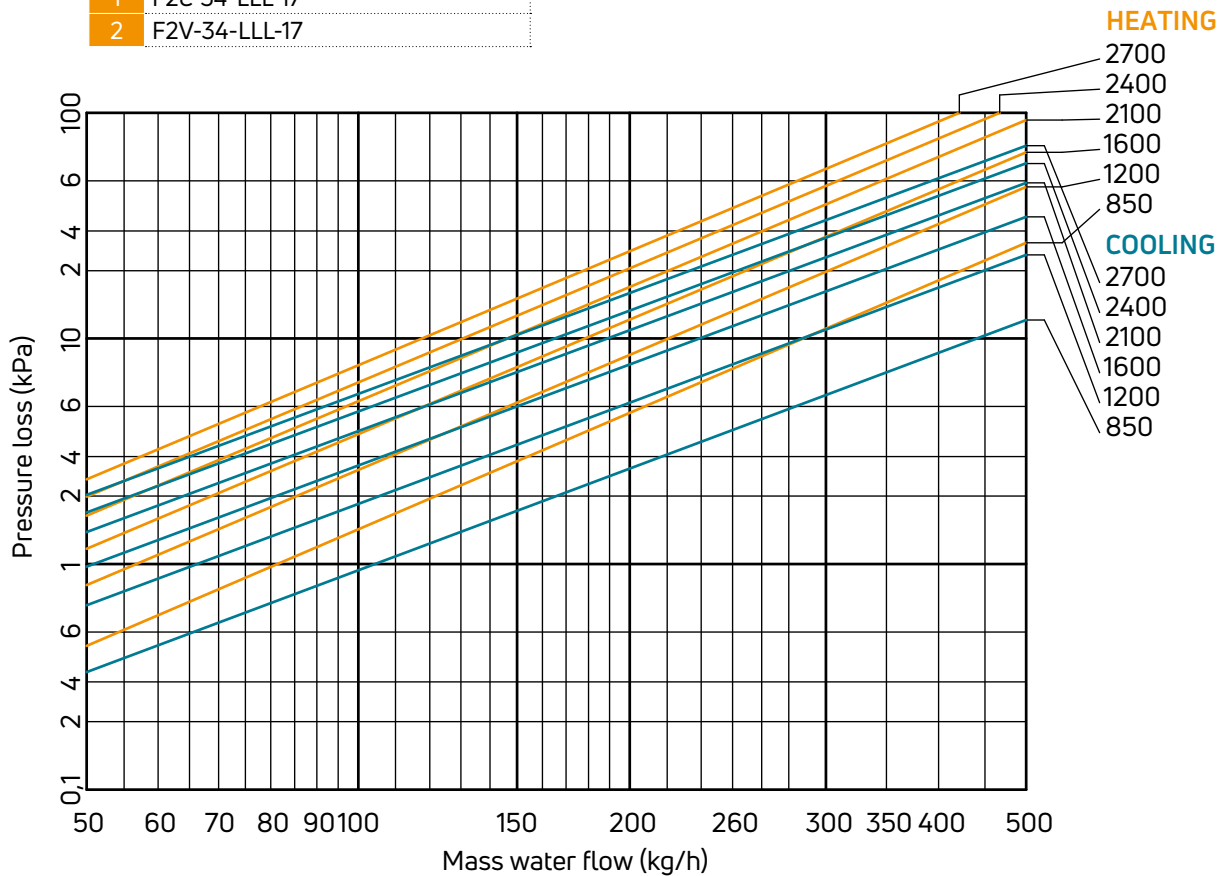
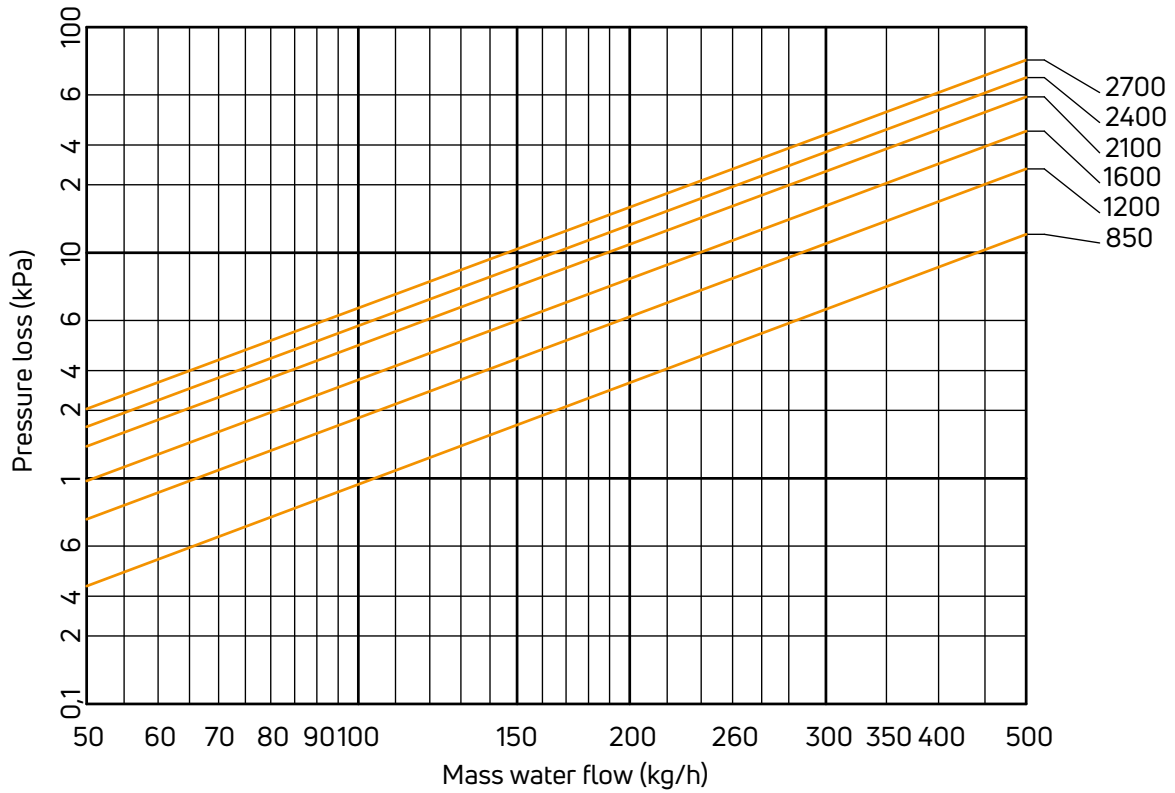


- 1 FIS-23-LLL-08
- 2 FIS-25-LLL-11



- 1 F2C-23-LLL-11

Hydraulic characteristics










Conversion table





| supply water temperature [°C] | | air temperature [°C] | | Aquila FMS trench convector n = 1.4 | | | | | | | | | | | | | return water temperature [°C] | | |
|--|----|----------------------|------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|----------------------|-------------------------------|-------------------------------|--|--|
| | | | | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | | | | | |
| 90 | 15 | 0.78 | 0.88 | 0.98 | 1.08 | 1.17 | 1.26 | 1.35 | 1.43 | 1.52 | 1.61 | 1.69 | | 0.52 | 0.46 | 15 | 45 | | |
| | 20 | 0.63 | 0.73 | 0.83 | 0.93 | 1.02 | 1.11 | 1.19 | 1.28 | 1.36 | 1.45 | 1.53 | | 0.42 | 0.36 | 20 | | | |
| | 24 | 0.51 | 0.62 | 0.72 | 0.81 | 0.90 | 0.99 | 1.08 | 1.16 | 1.24 | 1.32 | 1.40 | | 0.33 | 0.28 | 24 | | | |
| 85 | 15 | 0.73 | 0.83 | 0.93 | 1.02 | 1.11 | 1.19 | 1.28 | 1.36 | 1.45 | 1.53 | | 0.62 | 0.57 | 0.51 | 15 | 50 | | |
| | 20 | 0.59 | 0.69 | 0.78 | 0.87 | 0.96 | 1.05 | 1.13 | 1.21 | 1.29 | 1.37 | | 0.52 | 0.46 | 0.40 | 20 | | | |
| | 24 | 0.47 | 0.58 | 0.67 | 0.76 | 0.85 | 0.93 | 1.01 | 1.09 | 1.17 | 1.25 | | 0.44 | 0.38 | 0.32 | 24 | | | |
| 80 | 15 | 0.69 | 0.78 | 0.87 | 0.96 | 1.05 | 1.13 | 1.21 | 1.29 | 1.37 | | 0.73 | 0.67 | 0.61 | 0.56 | 15 | 55 | | |
| | 20 | 0.55 | 0.64 | 0.73 | 0.82 | 0.90 | 0.99 | 1.07 | 1.14 | 1.22 | | 0.62 | 0.57 | 0.51 | 0.44 | 20 | | | |
| | 24 | 0.44 | 0.54 | 0.63 | 0.71 | 0.79 | 0.87 | 0.95 | 1.03 | 1.10 | | 0.54 | 0.48 | 0.42 | 0.35 | 24 | | | |
| 75 | 15 | 0.64 | 0.73 | 0.82 | 0.90 | 0.99 | 1.07 | 1.14 | 1.22 | | 0.84 | 0.78 | 0.72 | 0.66 | 0.59 | 15 | 60 | | |
| | 20 | 0.51 | 0.60 | 0.69 | 0.77 | 0.85 | 0.92 | 1.00 | 1.07 | | 0.73 | 0.67 | 0.61 | 0.55 | 0.48 | 20 | | | |
| | 24 | 0.40 | 0.50 | 0.58 | 0.66 | 0.74 | 0.82 | 0.89 | 0.96 | | 0.64 | 0.59 | 0.53 | 0.46 | 0.39 | 24 | | | |
| 70 | 15 | 0.60 | 0.69 | 0.77 | 0.85 | 0.92 | 1.00 | 1.07 | | 0.95 | 0.89 | 0.83 | 0.77 | 0.70 | 0.63 | 15 | 65 | | |
| | 20 | 0.47 | 0.56 | 0.64 | 0.71 | 0.79 | 0.86 | 0.93 | | 0.84 | 0.78 | 0.72 | 0.66 | 0.59 | 0.52 | 20 | | | |
| | 24 | 0.37 | 0.46 | 0.54 | 0.61 | 0.68 | 0.76 | 0.83 | | 0.75 | 0.69 | 0.63 | 0.57 | 0.50 | 0.42 | 24 | | | |
| 65 | 15 | 0.56 | 0.64 | 0.71 | 0.79 | 0.86 | 0.93 | | 1.06 | 1.00 | 0.94 | 0.88 | 0.81 | 0.74 | 0.67 | 15 | 70 | | |
| | 20 | 0.43 | 0.51 | 0.59 | 0.66 | 0.73 | 0.80 | | 0.95 | 0.89 | 0.83 | 0.77 | 0.70 | 0.63 | 0.55 | 20 | | | |
| | 24 | 0.33 | 0.41 | 0.49 | 0.56 | 0.63 | 0.70 | | 0.86 | 0.80 | 0.74 | 0.68 | 0.61 | 0.54 | 0.46 | 24 | | | |
| 60 | 15 | 0.51 | 0.59 | 0.66 | 0.73 | 0.80 | | 1.17 | 1.11 | 1.05 | 0.99 | 0.92 | 0.86 | 0.78 | 0.71 | 15 | 75 | | |
| | 20 | 0.39 | 0.47 | 0.54 | 0.60 | 0.67 | | 1.06 | 1.00 | 0.94 | 0.88 | 0.81 | 0.74 | 0.67 | 0.59 | 20 | | | |
| | 24 | 0.30 | 0.37 | 0.44 | 0.51 | 0.57 | | 0.97 | 0.91 | 0.85 | 0.79 | 0.72 | 0.65 | 0.58 | 0.49 | 24 | | | |
| 55 | 15 | 0.47 | 0.54 | 0.60 | 0.67 | | 1.28 | 1.22 | 1.16 | 1.10 | 1.04 | 0.97 | 0.90 | 0.83 | 0.76 | 15 | 80 | | |
| | 20 | 0.35 | 0.42 | 0.49 | 0.55 | | 1.17 | 1.11 | 1.05 | 0.99 | 0.92 | 0.86 | 0.78 | 0.71 | 0.62 | 20 | | | |
| | 24 | 0.27 | 0.33 | 0.40 | 0.46 | | 1.08 | 1.02 | 0.96 | 0.90 | 0.83 | 0.77 | 0.69 | 0.61 | 0.52 | 24 | | | |
| 50 | 15 | 0.42 | 0.49 | 0.55 | | 1.40 | 1.34 | 1.28 | 1.21 | 1.15 | 1.08 | 1.01 | 0.94 | 0.87 | 0.79 | 15 | 85 | | |
| | 20 | 0.31 | 0.37 | 0.43 | | 1.28 | 1.22 | 1.16 | 1.10 | 1.04 | 0.97 | 0.90 | 0.83 | 0.75 | 0.66 | 20 | | | |
| | 24 | 0.23 | 0.29 | 0.35 | | 1.19 | 1.13 | 1.07 | 1.01 | 0.95 | 0.88 | 0.81 | 0.73 | 0.66 | 0.56 | 24 | | | |
| 45 | 15 | 0.37 | 0.43 | | 1.51 | 1.45 | 1.39 | 1.33 | 1.26 | 1.19 | 1.13 | 1.06 | 0.98 | 0.91 | 0.82 | 15 | 90 | | |
| | 20 | 0.27 | 0.33 | | 1.40 | 1.34 | 1.28 | 1.21 | 1.15 | 1.08 | 1.01 | 0.94 | 0.87 | 0.78 | 0.69 | 20 | | | |
| | 24 | 0.19 | 0.25 | | 1.30 | 1.25 | 1.19 | 1.12 | 1.06 | 0.99 | 0.92 | 0.85 | 0.77 | 0.68 | 0.59 | 24 | | | |
| return water temperature [°C] | | | | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 | 45 | 40 | 35 | air temperature [°C] | supply water temperature [°C] | | | |
| Aquila F1T, F1P, F2C, F4C trench convectors, fan version n = 1.1 | | | | | | | | | | | | | | | | | | | |

Example: the FMS-25-100-11 convector, heat output at 75/65/20°C: QN = 266 W, supply temperature: 55°C, return temperature: 45°C, air temperature: 20°C, heat transfer coefficient K1 = 0.49
Calculated heat output: Q = QN x K1 = 266 W x 0.49 = 130 W





Accessories

| | description | order code | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-------------------------------|------|------|------|------|-----|-----|--------------|------|----------|------|----------|--------------|------|--|-----|------|-----|-----|-----|-----|-----|-----|-----|--|
|  | <p>DN15 thermostatic valve – NF shortened version: PN10 / 110 °C Straight version DN15 PTV-01 Angle version DN15 PTV-02</p> <table border="1"> <thead> <tr> <th>Valve setting</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>k_v [m³/h]</td> <td>0.10</td> <td>0.20</td> <td>0.31</td> <td>0.45</td> <td>0.69</td> <td>0.89</td> </tr> </tbody> </table> | Valve setting | 1 | 2 | 3 | 4 | 5 | N | k_v [m³/h] | 0.10 | 0.20 | 0.31 | 0.45 | 0.69 | 0.89 | <p>AZA3PTV01 AZA3PTV02</p> | | | | | | | | | | |
| Valve setting | 1 | 2 | 3 | 4 | 5 | N | | | | | | | | | | | | | | | | | | | | |
| k_v [m³/h] | 0.10 | 0.20 | 0.31 | 0.45 | 0.69 | 0.89 | | | | | | | | | | | | | | | | | | | | |
|  | <p>DN15 thermostatic cut-off valve: PN10 / 110 °C Straight version DN15 PRS-01 Angle version DN15 PRS-02</p> <table border="1"> <thead> <tr> <th>Speed no. until total cut-off</th> <th>0.25</th> <th>0.5</th> <th>0.75</th> <th>1</th> <th>1.5</th> <th>2</th> <th>2.5</th> <th>3</th> <th>3.5</th> <th>4</th> <th>k_{vs}</th> </tr> </thead> <tbody> <tr> <td>k_v [m³/h]</td> <td>0.2</td> <td>0.4</td> <td>0.5</td> <td>0.65</td> <td>1.0</td> <td>1.3</td> <td>1.7</td> <td>1.9</td> <td>2.1</td> <td>2.3</td> <td>2.5</td> </tr> </tbody> </table> | Speed no. until total cut-off | 0.25 | 0.5 | 0.75 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | k_{vs} | k_v [m³/h] | 0.2 | 0.4 | 0.5 | 0.65 | 1.0 | 1.3 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | <p>AZA3PRS01 AZA3PRS02</p> |
| Speed no. until total cut-off | 0.25 | 0.5 | 0.75 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | k_{vs} | | | | | | | | | | | | | | | |
| k_v [m³/h] | 0.2 | 0.4 | 0.5 | 0.65 | 1.0 | 1.3 | 1.7 | 1.9 | 2.1 | 2.3 | 2.5 | | | | | | | | | | | | | | | |
|  | <p>PTH-01 thermostatic valve with a capillary pipe: Temperature regulation control 8-28 °C Capillary pipe's length 2 m Anti-freezing protection 8 °C</p> | AZA3PTH01 | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>PPT-01 room thermostat: Operating voltage 230 V / 50 Hz Required temperature setting range 8 - 30 °C Terminal load 0.2-6 (2) A IP protection rating IP 30 Colour white RAL 9010 Width x height x depth 96.4 x 99.6 x 42.8 mm Note: the thermostat should be positioned approx. 1.5 m above the floor level, and not exposed to direct sun radiation or other local heat or cold source..</p> | AZA3PPT01 | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>PTP-02 actuator for thermostatic valve: Operating voltage 230 V / 50 Hz (no-current shut-off version) Cable length 1.0 m Power load 1.0 W Starting current (transitory) 550 mA (230 V / 50 Hz) Connecting cable 2 x 0.75 mm² IP protection rating IP 54 (mounting: vertical) Thread connector M30 x 1.5</p> | FAW3ANCSCNN54P00 | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>PTP-03 actuator for thermostatic valve: Operating voltage 24 V / 50 Hz (no-current shut-off version) Cable length 1.0 m Power load 1.0 W Starting current (transitory) 300 mA (24 V / 50 Hz) Connecting cable 2 x 0.75 mm² IP protection rating IP 54 (mounting: vertical) Thread connector M30 x 1.5</p> | FAW0ANCSCNN54P00 | | | | | | | | | | | | | | | | | | | | | | | | |
|  | <p>PSP-01 manual 3 speed control switch: Operating voltage 230 V / 50 Hz Number of speed settings off + 3 Terminal load 0.2-6 (2) A IP protection rating IP 30 Colour white RAL 9010 Width x height x depth 96.4 x 113.1 x 42 mm</p> | AZA3PSP01 | | | | | | | | | | | | | | | | | | | | | | | | |

Accessories

| | description | order code |
|---|--|---------------------|
|  | <p>PPT-02 room thermostat with a 3 speed control switch:</p> <p>Operating voltage 230 V / 50 Hz Required temperature setting range 8 - 30 °C Number of speed settings off + 3 Terminal load 0.2-6 (2) A IP protection rating IP 30 Colour white RAL 9010 Width x height x depth 96.4 x 113.1 x 42 mm</p> <p>Note: the thermostat should be positioned approx. 1.5 m above the floor level, and not exposed to direct sun radiation or other local heat or cold source. During installation and starting, check that the correct jumper setting is on SR-3.</p> | AZA3PPT02 |
|  | <p>PER-07 room thermostat with automatic speed switch:</p> <p>- control of heating and cooling - available option: connecting external sensors</p> <p>Operating voltage 230 V / 50 Hz Power load max 8 VA Control output load 230 V / 50 Hz, max 4 (2) A IP protection rating IP 30 Required temperature setting range 5 - 40 °C Fan speed regulation manual (0,1,2,3) / automatic Width x height x depth 86 x 86 x 46 mm</p> <p>Note: the thermostat should be positioned approx. 1.5 m above the floor level, and not exposed to direct sun radiation or other local heat or cold source. During installation and starting, check the correct settings of jumpers and operating parameters, depending on the required function (heating, heating / cooling or cooling) according to the operating instructions.</p> | AZA3PER07 |
|  | <p>PER-08 room thermostat with automatic speed switch and weekly programming:</p> <p>- control of heating and cooling - available option: connecting external sensors - available option: remote control</p> <p>Operating voltage 230 V / 50 Hz Power load max 8 VA Control output load 230 V / 50 Hz, max 4 (2) A IP protection rating IP 30 Required temperature setting range 5 - 40 °C Fan speed regulation manual (0,1,2,3) / automatic Width x height x depth 86 x 86 x 46 mm</p> <p>Note: The thermostat should be positioned approx. 1.5 m above the floor level, and not exposed to direct sun radiation or other local heat or cold source. During installation and starting, check the correct settings of jumpers and operating parameters, depending on the required function (heating, heating / cooling or cooling) according to the operating instructions.</p> | AZA3PER08 |
|  | <p>PER-10 KNX room thermostat with automatic speed switch:</p> <p>- control of heating and cooling - available option: connecting external sensors - communication with KNX protocol-compliant BMS systems</p> <p>Operating voltage 230 V / 50 Hz Power load max 8 VA Control output load 230 V / 50 Hz, max 4 (2) A IP protection rating IP 30 Required temperature setting range 5 - 40 °C Fan speed regulation manual (0,1,2,3) / automatic Width x height x depth 86 x 86 x 46 mm</p> <p>Note: the thermostat should be positioned approx. 1.5 m above the floor level, and not exposed to direct sun radiation or other local heat or cold source. During installation and starting, check the correct settings of jumpers and operating parameters, depending on the required function (heating, heating / cooling or cooling) according to the operating instructions.</p> | AZANPER10KNX |

Accessories

| | description | order code |
|--|---|---|
|  | PER-05-DO remote control for PER-08. | AZA3PER05DO |
|  | QAH-11 clip-on temperature sensor with NTC resistance measuring element for the equipment with heating and/or cooling function Temperature measuring range - 20...+ 70 °C Measuring accuracy at 25 °C ±0.3K Time constant 1.5 min | AZA3QAH11 |
|  | Temperature sensor PTL-02 (with electric quick coupling) stopping the fan at temperature of the medium below 35 °C for use with F1S and F2C (heating mode only) convectors only. | AZANPTL02 |
|  | RAS transformer for 3-step fan speed control, 230/24 V surface-mounted version RAS-030-M-01 RAS-060-M-01 | AZANRAS030M01 AZANRAS060M01 |
|  | RAS transformer for 3-step fan speed control, 230/24 V flush mounted version RAS-030-M-02 RAS-060-M-02 | AZANRAS030M02 AZANRAS060M02 |
| | RAS transformer for 3-step fan speed control, 230/24 V DIN rail-mounted version RAS-030-M-03 RAS-060-M-03 RAS-100-M-03 RAS-120-M-03 RAS-240-M-03 | AZANRAS030M03 AZANRAS060M03 AZANRAS100M03 AZANRAS120M03 AZANRAS240M03 |
| | Control module for the F2V and F4V convectors surface-mounted version - RMS-010-M-01 flush mounted version - RMS-010-M-02 DIN rail-mounted version - RMS-010-M-03 | AZANRMS010M01 AZANRMS010M02 AZANRMS010M03 |

Order codes

convectors

Product group:

FHQ ... trench convector FMS
FHR ... trench convector F1S,
F2C, F2V, F4C, F4V

Product variant:

0 ... standard version

Packaging code:

N ... neutral

Duct design:

1 ... galvanized steel
3 ... stainless steel

FHQ FMS 0 25 100 09 N 1

Type of convector:

FMS - no fan
F1S - fan version (24V)
F2C - heating or cooling (24V)
F2V - heating or cooling (230V)
F4C - heating and cooling (24V)
F4V - heating and cooling (230V)

Width:

FMS
20 ... 200 mm
25 ... 250 mm
30 ... 300 mm
34 ... 340 mm
42 ... 420 mm

F1S
17 ... 170 mm
20 ... 200 mm
23 ... 230 mm
25 ... 250 mm

F2C
23 ... 230 mm
34 ... 340 mm

F2V, F4C, F4V
34 ... 340 mm

Length:

FMS
070 ... 700 mm
.....
360 ... 3600 mm

F1S
070 ... 700 mm
.....
300 ... 3000 mm

F2C, F2V, F4C, F4V
085 ... 850 mm
120 ... 1200 mm
160 ... 1600 mm
210 ... 2100 mm
240 ... 2400 mm
270 ... 2700 mm

Height:

FMS
09 ... 90 mm
11 ... 110 mm
14 ... 140 mm
19 ... 190 mm

F1S
08 ... 75 mm
11 ... 110 mm

F2C
11 ... 110 mm
17 ... 170 mm

F2V, F4C, F4V
17 ... 170 mm

Example of an order code for an **Aquilo** convector:

standard version

- product group: trench convector
- type of convector: FMS
- product variant: **standard version**
- width: 250 mm
- length: 1000 mm
- height: 90 mm
- packaging code: neutral
- duct design: **galvanized steel**

example of an order code: FHQFMS02510009N1

Note:

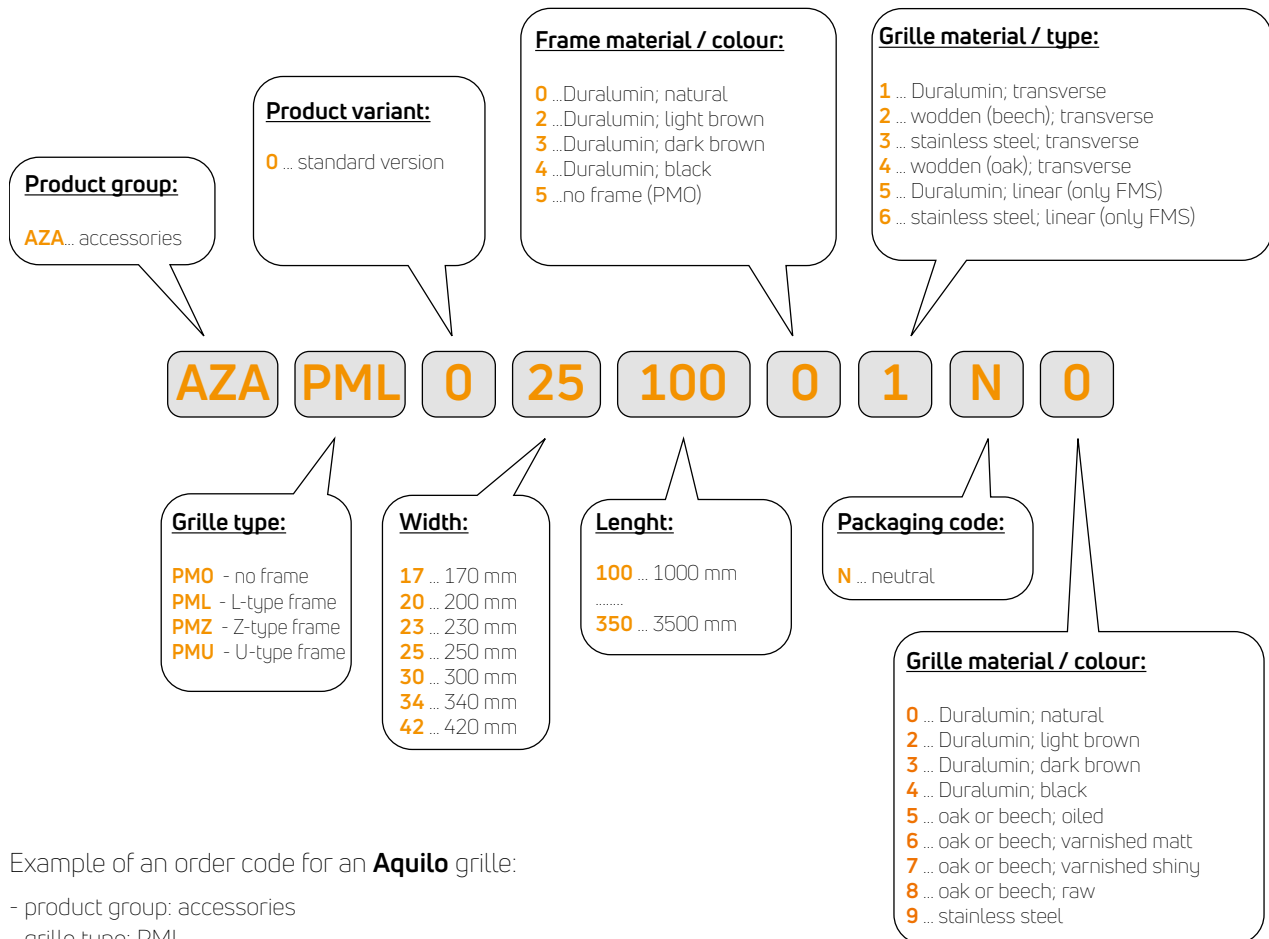
All Aquilo convectors for pool applications must be ordered in special execution versions. Technical details can be provided on request.

Non-standard versions are available on request only, for execution on the basis of design documentation (drawings) approved by the Client.

F2C, F2V, F4C, F4V trench convector ducts made of stainless steel only and with holes for connecting the drainage in the bottom of the duct.

Order codes

grilles



Example of an order code for an **Aquila** grille:

- product group: accessories
- grille type: PML
- product variant: standard version
- width: 250 mm
- length: 1000 mm
- frame material / colour: Duralumin / natural
- grille material / type: Duralumin / transverse
- packaging code: neutral
- grille material / colour: Duralumin / natural

example of an order code - AZAPML02510001N0

The moisture content for beech or natural oak Aquila conveyor grilles is approx. 10%. To enable the Clients colouring of their own choice, the grilles are not sold protected by preliminary varnishing.

However, during storage or after installation, due to the humidity conditions of the environment, raw wooden grilles may be extended by as much as 2-3 mm or shortened by up to 10 mm for each meter of its length. To avoid the adverse effects of this natural process, the grilles need to be protected against moisture. Painting with oil or varnishing eliminates the possibility of the negative effects of swelling

or shrinking of the wooden grilles. In case grilles become moist, they should be varnished only after they become entirely dry and return to their required length, appropriate to the duct's dimensions. If the length of the grill is appropriate to the length of the steel duct, it should be secured immediately to avoid the effect of its undesirable shortening.

Note:

In places where intense mechanical load on the grilles might occur (car dealers, gyms), the Duralumin or stainless steel grilles are recommended.

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