

# EXTRA 1WX

POLYWARM® COATED CALORIFIER WITH 1 EXTRACTABLE STAINLESS STEEL HEAT EXCHANGER



## APPLICATION

Production and storage of domestic hot water (DHW).

## MATERIAL

Mild steel Polywarm® coated (Attestation ACS - EN 16421)

## HEAT EXCHANGER

Stainless steel 316L Antilegionella® heat exchanger, with tubes bent to the bottom

## INSULATION

**HARD:** High thermal insulation with ecological polyurethane hard foam.

**SOFT (DISMOUNTABLE):** NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501.

Grey PVC external lining.

## CATHODE PROTECTION

Magnesium anode. Models > 1500 Nr. 2 magnesium anodes.

## DRAIN

External confluence through drain connection. Models > 1000 external confluence through drain pipe.

## GASKET- FLANGE PLATE

Silicone gaskets suitable for water intended for human consumption (tested according to 98/83/CE), max temperature up to 200°C. Mild steel exchanger head with anticorrosion treatment.

## WARRANTY

5 years (See general sales conditions and warranty)

## ACCESSORIES AND SPARE PARTS :

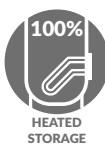
See Accessories section for the entire list.



POLYWARM®  
COATED  
DHW STORAGE



316L  
STAINLESS STEEL  
HEAT EXCHANGER



100%  
HEATED  
STORAGE



PROMPT  
AVAILABILITY



## EXTRA 1WXB

HARD FOAM INSULATION



## EXTRA 1WXC

DISMOUNTABLE SOFT FLEECE  
INSULATION

| Model       | Art. Nr.      | Heat exchangers<br>surface | ENERGY EFFICIENCY<br>CLASS |
|-------------|---------------|----------------------------|----------------------------|
|             |               | [m²]                       |                            |
| <b>200</b>  | 3072162360122 | 0,5                        | <b>B</b>                   |
| <b>300</b>  | 3072162360123 | 0,75                       | <b>C</b>                   |
| <b>500</b>  | 3072162360124 | 1                          | <b>C</b>                   |
| <b>800</b>  | 3072162360125 | 1,5                        | <b>B</b>                   |
| <b>1000</b> | 3072162360126 | 2                          | <b>C</b>                   |
| <b>1500</b> | 3072162360127 | 3                          | <b>C</b>                   |
| <b>2000</b> | 3072162360128 | 4                          | <b>B</b>                   |
| <b>500</b>  | 3072162360134 | 1                          | <b>C</b>                   |
| <b>800</b>  | 3072162360135 | 1,5                        | <b>C</b>                   |
| <b>1000</b> | 3072162360136 | 2                          | <b>C</b>                   |
| <b>1500</b> | 3072162360137 | 3                          | <b>C</b>                   |
| <b>2000</b> | 3072162360138 | 4                          | <b>C</b>                   |
| <b>2500</b> | 3072162360113 | 5                          |                            |
| <b>3000</b> | 3072162360109 | 6                          |                            |
| <b>4000</b> | 3072162360110 | 8                          |                            |
| <b>5000</b> | 3072162360112 | 10                         |                            |

## ACCESSORIES

### ELECTRIC IMMERSION HEATERS

| Mod.        | MONOPHASE                                                               |                |                |
|-------------|-------------------------------------------------------------------------|----------------|----------------|
|             | 1,5 kW                                                                  | 2 kW           | 3 kW           |
|             | 52400000000051                                                          | 52400000000052 | 52400000000053 |
|             | Ignition time from 10 °C to 45 °C with electric immersion heaters [min] |                |                |
| <b>200</b>  | 49                                                                      | 87             | 65             |
| <b>300</b>  | 76                                                                      | 136            | 102            |
| <b>500</b>  | 127                                                                     | 228            | 171            |
| <b>800</b>  | 178                                                                     | 318            | 239            |
| <b>1000</b> | 243                                                                     | 436            | 327            |
| <b>1500</b> | 288                                                                     | 516            | 387            |
| <b>2000</b> | 443                                                                     | 793            | 595            |
| <b>2500</b> | 577                                                                     | 1033           | 775            |
| <b>3000</b> | 577                                                                     | 1033           | 775            |
| <b>4000</b> | 797                                                                     | 1428           | 1071           |
| <b>5000</b> | 1040                                                                    | 1864           | 1398           |

| THREEPHASE                                                              |                |                |                |                |
|-------------------------------------------------------------------------|----------------|----------------|----------------|----------------|
| 4 kW                                                                    | 5 kW           | 6 kW           | 9 kW           | 12 kW          |
| 52400000000047                                                          | 52400000000048 | 52400000000049 | 52400000000050 | 52400000000031 |
| Ignition time from 10 °C to 45 °C with electric immersion heaters [min] |                |                |                |                |
| 33                                                                      | //             | //             | //             | //             |
| 51                                                                      | //             | //             | //             | //             |
| 85                                                                      | 68             | 57             | //             | //             |
| 120                                                                     | 96             | 80             | //             | //             |
| 163                                                                     | 131            | 109            | 73             | 54             |
| 194                                                                     | 155            | 129            | 86             | 65             |
| 297                                                                     | 238            | 198            | 132            | 99             |
| 387                                                                     | 310            | 258            | 172            | 129            |
| 387                                                                     | 310            | 258            | 172            | 129            |
| 535                                                                     | 428            | 357            | 238            | 178            |
| 699                                                                     | 559            | 466            | 311            | 233            |

### FULL CONTROL electronic unit (mounted on tank)

| Art. Nr.      | for models |
|---------------|------------|
| 5220280000004 | WXC        |
| 5220280000005 | WXB        |

### HEAT MANAGER + electric immersion heater 1,5 kW + probe +3m cable

| Art. Nr.       | Output [kW] |
|----------------|-------------|
| 52400000000074 | 1,5         |
| 52400000000075 | 2           |
| 52400000000076 | 3           |

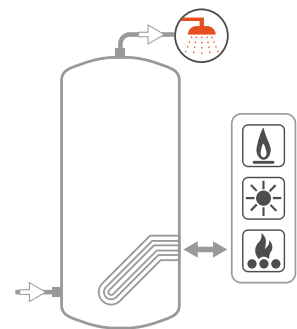
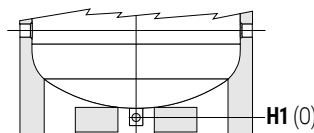
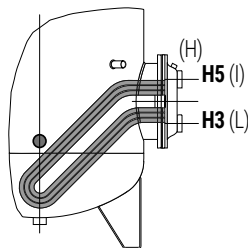
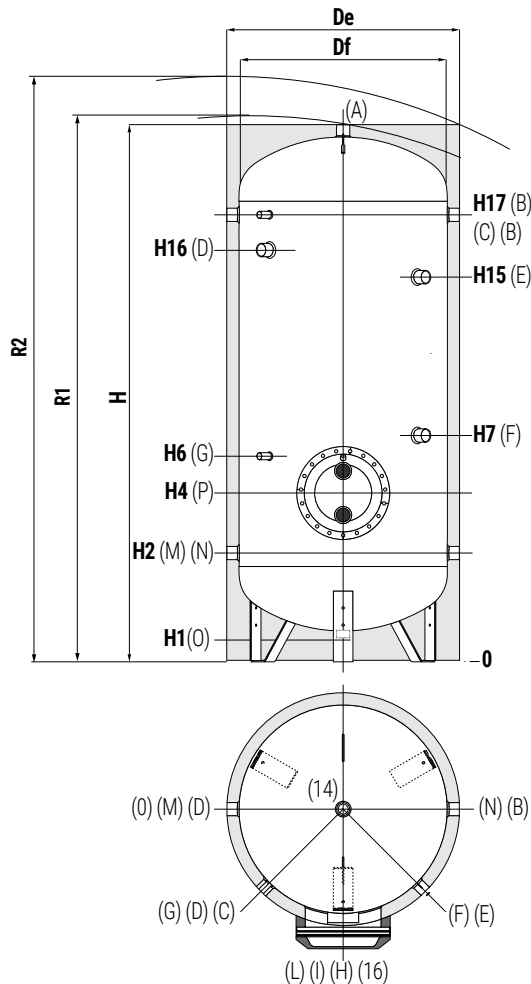
### Titanium anode

|                            |  |
|----------------------------|--|
| See Accessories<br>section |  |
|----------------------------|--|

# EXTRA 1WX

POLYWARM® COATED CALORIFIER WITH 1 EXTRACTABLE STAINLESS STEEL HEAT EXCHANGER

| Model       | STORAGE |       | HEAT EXCHANGER |        |
|-------------|---------|-------|----------------|--------|
|             | Pmax    | Tmax  | Pmax           | Tmax   |
| 200 ÷ 1000  | 8 bar   | 90 °C | 12 bar         | 110 °C |
| 1500 ÷ 5000 | 6 bar   |       |                |        |



|          |                                                                                         |
|----------|-----------------------------------------------------------------------------------------|
| <b>A</b> | Domestic hot water outlet                                                               |
| <b>B</b> | Recirculation / Domestic hot water outlet                                               |
| <b>C</b> | Connection for instrumentation G 1/2" F                                                 |
| <b>D</b> | Connection for electric immersion heater G 1 1/2" F. For models > 800 connection G 2" F |
| <b>E</b> | Connection for 2nd magnesium anode G 1 1/4" F (only for models > 1500)                  |
| <b>F</b> | Connection for magnesium anode G 1 1/4" F                                               |
| <b>G</b> | Connection for instrumentation G 1/2" F                                                 |
| <b>H</b> | Heat exchanger drain G 3/8" F                                                           |
| <b>I</b> | Primary circuit inlet G 1" F. For models > 500 connection G 2" F                        |
| <b>L</b> | Primary circuit outlet G 1" F. For models > 500 connection G 2" F                       |
| <b>M</b> | Domestic cold water circuit inlet                                                       |
| <b>N</b> | Alternative domestic cold water circuit inlet or connection for more tanks in series    |
| <b>O</b> | Drain                                                                                   |
| <b>P</b> | Heat exchanger flange                                                                   |

Models from 1500 to 5000 are equipped with a practical skirt support which facilitate the handling with transpallets and forklifts. Also, discharge piping already mounted to allow total emptying.

## EXTRA 1WXB - HARD FOAM INSULATION

| Model       | Volume | Weight | De   | H    | R2   | H1  | H2  | H3  | H4  | H5  | H6  | H7   | H15  | H16  | H17  | P           | B<br>M-N      | A     | O     |
|-------------|--------|--------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|-------------|---------------|-------|-------|
|             | [lt]   | [kg]   | [mm] |      |      |     |     |     |     |     |     |      |      |      |      |             | Connections F |       |       |
| <b>200</b>  | 191    | 52     | 550  | 1449 | 1560 | 85  | 325 | 360 | 410 | 460 | 520 | 650  | //   | 1075 | 1185 | Ø1220/Øe300 | 1"1/4         | 1"1/4 | 1"1/4 |
| <b>300</b>  | 292    | 65     | 650  | 1499 | 1640 | 85  | 350 | 385 | 435 | 485 | 545 | 735  | //   | 1100 | 1210 | Ø1220/Øe300 | 1"1/4         | 1"1/4 | 1"1/4 |
| <b>500</b>  | 500    | 83     | 750  | 1800 | 1960 | 85  | 375 | 410 | 460 | 510 | 570 | 760  | //   | 1329 | 1485 | Ø1220/Øe300 | 1"1/4         | 1"1/4 | 1"1/4 |
| <b>800</b>  | 794    | 139    | 900  | 2135 | 2330 | 85  | 405 | 450 | 540 | 630 | 690 | 870  | //   | 1610 | 1765 | Ø1300/Øe380 | 1"1/4         | 1"1/2 | 1"1/4 |
| <b>1000</b> | 1042   | 181    | 1000 | 2221 | 2450 | 105 | 458 | 503 | 593 | 683 | 743 | 993  | //   | 1664 | 1818 | Ø1300/Øe380 | 1"1/2         | 2"    | 1"1/2 |
| <b>1500</b> | 1445   | 224    | 1100 | 2415 | 2660 | 109 | 440 | 585 | 675 | 765 | 825 | 1075 | //   | 1895 | 2050 | Ø1300/Øe380 | 1"1/2         | 2"    | 1"    |
| <b>2000</b> | 1978   | 279    | 1300 | 2492 | 2820 | 91  | 467 | 587 | 692 | 797 | 867 | 842  | 1952 | 1877 | 2057 | Ø1350/Øe430 | 2"            | 2"    | 1"    |

Net volume data according to EN 15332 available on product label.

## EXTRA 1WXC - DISMOUNTABLE SOFT FLEECE INSULATION

| Model       | Volume | Weight | De   | Df   | H    | R1   | R2   | H1  | H2  | H3  | H4  | H5  | H6   | H7   | H15  | H16  | H17  | P           | B<br>M-N      | A     | O     |
|-------------|--------|--------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|------|-------------|---------------|-------|-------|
|             | [lt]   | [kg]   | [mm] |      |      |      |      |     |     |     |     |     |      |      |      |      |      |             | Connections F |       |       |
| <b>500</b>  | 500    | 90     | 870  | 650  | 1841 | 1998 | 2090 | 101 | 416 | 451 | 501 | 551 | 611  | 801  | //   | 1370 | 1526 | Ø1220/Øe300 | 1"1/4         | 1"1/2 | 1"1/4 |
| <b>800</b>  | 794    | 139    | 970  | 750  | 2188 | 2220 | 2400 | 113 | 433 | 478 | 568 | 658 | 718  | 898  | //   | 1638 | 1793 | Ø1300/Øe380 | 1"1/4         | 1"1/2 | 1"1/4 |
| <b>1000</b> | 1042   | 181    | 1070 | 850  | 2242 | 2270 | 2490 | 101 | 454 | 499 | 589 | 679 | 739  | 989  | //   | 1660 | 1814 | Ø1300/Øe380 | 1"1/2         | 2"    | 1"1/2 |
| <b>1500</b> | 1445   | 224    | 1210 | 950  | 2440 | 2495 | 2730 | 109 | 440 | 585 | 675 | 765 | 825  | 1075 | //   | 1895 | 2050 | Ø1300/Øe380 | 1"1/2         | 2"    | 1"    |
| <b>2000</b> | 1978   | 279    | 1360 | 1100 | 2492 | 2570 | 2850 | 91  | 467 | 587 | 692 | 797 | 867  | 842  | 1952 | 1877 | 2057 | Ø1350/Øe430 | 2"            | 2"    | 1"    |
| <b>2500</b> | 2315   | 328    | 1350 | 1250 | 2311 | 2480 | 2690 | 140 | 551 | 671 | 776 | 881 | 951  | 976  | 1816 | 1732 | 1891 | Ø1350/Øe430 | 2"            | 2"    | 1"    |
| <b>3000</b> | 2921   | 384    | 1350 | 1250 | 2811 | 2950 | 3130 | 140 | 551 | 731 | 836 | 941 | 1011 | 1036 | 2316 | 2232 | 2391 | Ø1350/Øe430 | 2"            | 2"    | 1"    |
| <b>4000</b> | 3769   | 521    | 1500 | 1400 | 2875 | 3050 | 3250 | 114 | 570 | 750 | 855 | 960 | 1030 | 1035 | 2315 | 2238 | 2410 | Ø1350/Øe430 | 2"            | 2"    | 1"    |
| <b>5000</b> | 4982   | 657    | 1700 | 1600 | 2915 | 3130 | 3380 | 94  | 580 | 750 | 855 | 960 | 1030 | 1035 | 2335 | 2265 | 2420 | Ø1350/Øe430 | 2"            | 2"    | 1"    |

Net volume data according to EN 15332 available on product label.

# EXTRA 1WX

## HEAT EXCHANGERS TECHNICAL DATA

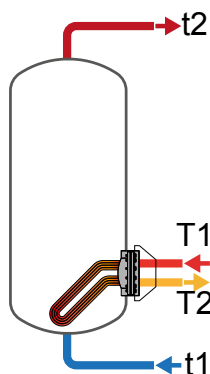


Cordivari heat exchangers, with tubes bent to the bottom, are able to heat the complete volume in an homogeneous way.

Energy storing is therefore improved and ignition time data refer to the complete volume of the tank, while in traditional straight heat exchangers equipped calorifiers, a range between 9-17% of the volume remains cold.

| Model | Primary flow rate<br>[m³/h] | Ignition time (minutes) from 10 °C to t2 and primary at T1 |       |       |       | Maximum power exchange (kW) with primary at T1, secondary within 10-45 °C and constant use of DHW production |      |      |      | DHW continuous production lt/h within 10-45 °C and primary at T1 HW production |      |      |      |
|-------|-----------------------------|------------------------------------------------------------|-------|-------|-------|--------------------------------------------------------------------------------------------------------------|------|------|------|--------------------------------------------------------------------------------|------|------|------|
|       |                             | T1/t2                                                      |       |       |       | T1                                                                                                           |      |      |      | T1                                                                             |      |      |      |
|       |                             | 55/50                                                      | 65/60 | 70/60 | 80/60 | 55                                                                                                           | 65   | 70   | 80   | 55                                                                             | 65   | 70   | 80   |
| 200   | 2                           | 113                                                        | 113   | 77    | 49    | 7,3                                                                                                          | 11,5 | 13,7 | 18   | 178                                                                            | 283  | 338  | 455  |
|       | 1                           | 147                                                        | 148   | 102   | 65    | 5,8                                                                                                          | 8,9  | 10,5 | 13,9 | 141                                                                            | 218  | 258  | 344  |
| 300   | 3                           | 112                                                        | 113   | 76    | 48    | 11,1                                                                                                         | 17   | 21   | 28   | 274                                                                            | 435  | 520  | 701  |
|       | 1,5                         | 145                                                        | 146   | 102   | 65    | 8,9                                                                                                          | 13,8 | 16,3 | 21,6 | 219                                                                            | 339  | 402  | 534  |
| 500   | 4                           | 139                                                        | 140   | 96    | 60    | 15                                                                                                           | 23,8 | 28,5 | 38   | 369                                                                            | 587  | 702  | 947  |
|       | 2                           | 180                                                        | 181   | 125   | 80    | 12,1                                                                                                         | 18,7 | 22,1 | 29,4 | 297                                                                            | 460  | 545  | 725  |
| 800   | 6                           | 146                                                        | 147   | 101   | 64    | 23                                                                                                           | 36   | 44   | 59   | 570                                                                            | 908  | 1087 | 1465 |
|       | 3                           | 186                                                        | 188   | 130   | 83    | 18                                                                                                           | 29   | 34   | 46   | 465                                                                            | 721  | 854  | 1136 |
| 1000  | 10                          | 128                                                        | 128   | 86    | 54    | 33                                                                                                           | 53   | 63   | 86   | 814                                                                            | 1309 | 1571 | 2127 |
|       | 5                           | 157                                                        | 157   | 107,9 | 69    | 27                                                                                                           | 43   | 51   | 69   | 687                                                                            | 1077 | 1281 | 1711 |
| 1500  | 15                          | 120                                                        | 119   | 82    | 51    | 51                                                                                                           | 81   | 98   | 133  | 1256                                                                           | 2022 | 2428 | 3290 |
|       | 7,5                         | 145                                                        | 146   | 100   | 64    | 44                                                                                                           | 68   | 81   | 108  | 1075                                                                           | 1687 | 2008 | 2684 |
| 2000  | 20                          | 121                                                        | 122   | 83    | 52    | 69                                                                                                           | 111  | 133  | 180  | 1699                                                                           | 2738 | 3288 | 4453 |
|       | 10                          | 146                                                        | 147   | 101   | 65    | 59                                                                                                           | 93   | 111  | 148  | 1465                                                                           | 2302 | 2741 | 3665 |
| 2500  | 20                          | 118                                                        | 119   | 81    | 51    | 84                                                                                                           | 134  | 160  | 216  | 2066                                                                           | 3309 | 3964 | 5352 |
|       | 10                          | 145                                                        | 146   | 101   | 65    | 71                                                                                                           | 111  | 131  | 174  | 1755                                                                           | 2734 | 3244 | 4314 |
| 3000  | 20                          | 128                                                        | 127   | 87    | 55    | 100                                                                                                          | 159  | 190  | 255  | 2461                                                                           | 3926 | 4694 | 6321 |
|       | 10                          | 156                                                        | 157   | 110   | 70    | 84                                                                                                           | 130  | 154  | 204  | 2082                                                                           | 3224 | 3817 | 5053 |
| 4000  | 20                          | 126                                                        | 127   | 87    | 56    | 131                                                                                                          | 207  | 247  | 330  | 3236                                                                           | 5121 | 6105 | 8168 |
|       | 10                          | 159                                                        | 161   | 112   | 73    | 110                                                                                                          | 168  | 198  | 260  | 2718                                                                           | 4151 | 4903 | 6443 |
| 5000  | 20                          | 137                                                        | 138   | 96    | 61    | 162                                                                                                          | 253  | 301  | 401  | 3992                                                                           | 6270 | 7450 | 9921 |
|       | 10                          | 176                                                        | 179   | 125   | 82    | 135                                                                                                          | 204  | 239  | 312  | 3332                                                                           | 5049 | 5923 | 7727 |

LOWER  
HEAT EXCHANGER



| Model | Primary flow rate<br>[m³/h] | DHW produced in the first 10 minutes in lt/10' input 10 °C output 45 °C, storage at t2 and primary at T1 |       |       |       | DHW produced in the first hour in lt/60' input 10 °C output 45 °C, storage at t2 and primary at T1 |       |       |       | Heat exchanger pressure drop |        |
|-------|-----------------------------|----------------------------------------------------------------------------------------------------------|-------|-------|-------|----------------------------------------------------------------------------------------------------|-------|-------|-------|------------------------------|--------|
|       |                             | T1/t2                                                                                                    |       |       |       | T1/t2                                                                                              |       |       |       | [mmH <sub>2</sub> O]         | [mbar] |
|       |                             | 55/50                                                                                                    | 65/60 | 70/60 | 80/60 | 55/50                                                                                              | 65/60 | 70/60 | 80/60 |                              |        |
| 200   | 2                           | 247                                                                                                      | 319   | 328   | 347   | 360                                                                                                | 498   | 542   | 635   | 309                          | 30,3   |
|       | 1                           | 241                                                                                                      | 308   | 314   | 329   | 330                                                                                                | 446   | 478   | 547   | 84,74                        | 8,3    |
| 300   | 3                           | 371                                                                                                      | 480   | 494   | 524   | 545                                                                                                | 755   | 823   | 968   | 372                          | 36,5   |
|       | 1,5                         | 362                                                                                                      | 464   | 474   | 496   | 501                                                                                                | 678   | 729   | 834   | 101,02                       | 9,9    |
| 500   | 4                           | 616                                                                                                      | 791   | 810   | 851   | 849                                                                                                | 1162  | 1254  | 1450  | 419                          | 41,1   |
|       | 2                           | 604                                                                                                      | 770   | 784   | 814   | 792                                                                                                | 1061  | 1129  | 1273  | 113,381                      | 11,1   |
| 800   | 6                           | 998                                                                                                      | 1280  | 1310  | 1373  | 1359                                                                                               | 1855  | 1998  | 2301  | 718                          | 70,4   |
|       | 3                           | 980                                                                                                      | 1249  | 1271  | 1318  | 1275                                                                                               | 1705  | 1812  | 2037  | 189,22                       | 18,6   |
| 1000  | 10                          | 1273                                                                                                     | 1640  | 1683  | 1776  | 1788                                                                                               | 2469  | 2678  | 3123  | 1380                         | 135,3  |
|       | 5                           | 1252                                                                                                     | 1601  | 1635  | 1707  | 1687                                                                                               | 2283  | 2446  | 2790  | 358,5                        | 35,2   |
| 1500  | 15                          | 1855                                                                                                     | 2394  | 2462  | 2605  | 2651                                                                                               | 3675  | 4000  | 4689  | 2295                         | 225,1  |
|       | 7,5                         | 1825                                                                                                     | 2338  | 2392  | 2504  | 2506                                                                                               | 3407  | 3664  | 4204  | 589,6                        | 57,8   |
| 2000  | 20                          | 2546                                                                                                     | 3285  | 3377  | 3571  | 3622                                                                                               | 5019  | 5459  | 6391  | 2996                         | 293,8  |
|       | 10                          | 2507                                                                                                     | 3212  | 3285  | 3439  | 3435                                                                                               | 4670  | 5021  | 5761  | 766,42                       | 75,2   |
| 2500  | 20                          | 2988                                                                                                     | 3856  | 3965  | 4196  | 4296                                                                                               | 5951  | 6475  | 7586  | 2436                         | 238,9  |
|       | 10                          | 2936                                                                                                     | 3760  | 3845  | 4023  | 4047                                                                                               | 5491  | 5899  | 6755  | 624                          | 61,2   |
| 3000  | 20                          | 3748                                                                                                     | 4827  | 4955  | 5226  | 5307                                                                                               | 7314  | 7928  | 9230  | 2836                         | 278,1  |
|       | 10                          | 3685                                                                                                     | 4710  | 4809  | 5015  | 5004                                                                                               | 6752  | 7226  | 8215  | 723                          | 70,9   |
| 4000  | 20                          | 4842                                                                                                     | 6232  | 6396  | 6740  | 6892                                                                                               | 9475  | 10263 | 11913 | 3896                         | 382,1  |
|       | 10                          | 4756                                                                                                     | 6070  | 6196  | 6452  | 6477                                                                                               | 8699  | 9301  | 10533 | 989                          | 97,0   |
| 5000  | 20                          | 6362                                                                                                     | 8166  | 8363  | 8775  | 8891                                                                                               | 12137 | 13081 | 15058 | 4707                         | 461,6  |
|       | 10                          | 6252                                                                                                     | 7963  | 8109  | 8409  | 8363                                                                                               | 11161 | 11860 | 13303 | 1192                         | 116,9  |

## MAXIMUM STORAGE EXPLOITATION WITH CURVED ANTILEGIONELLA® HEAT EXCHANGER

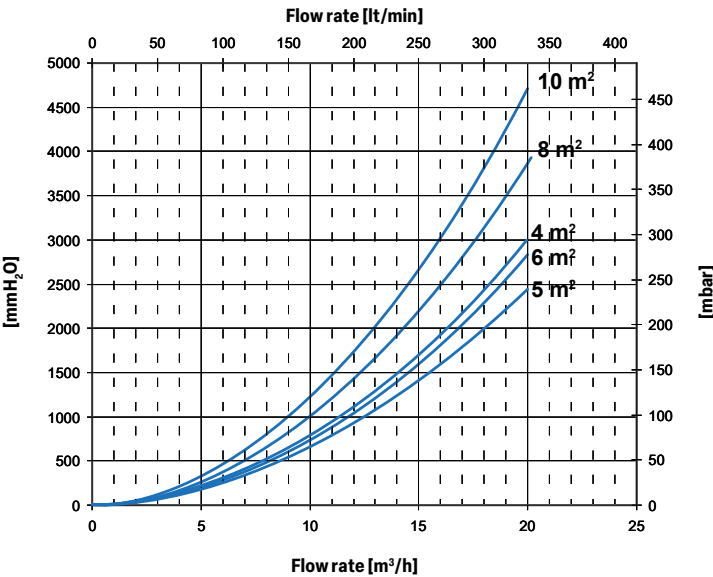
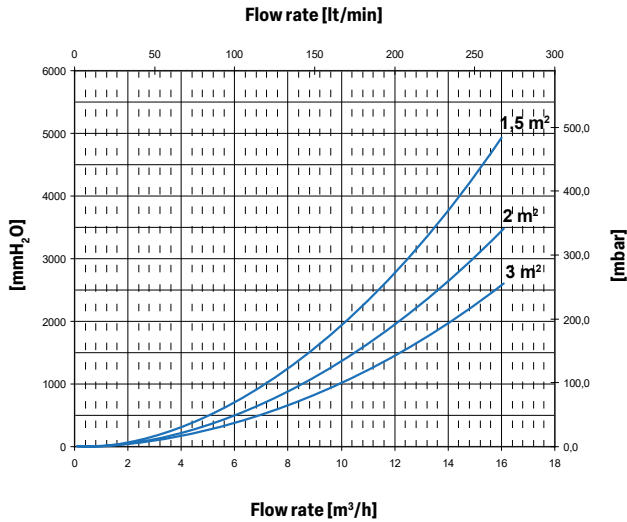
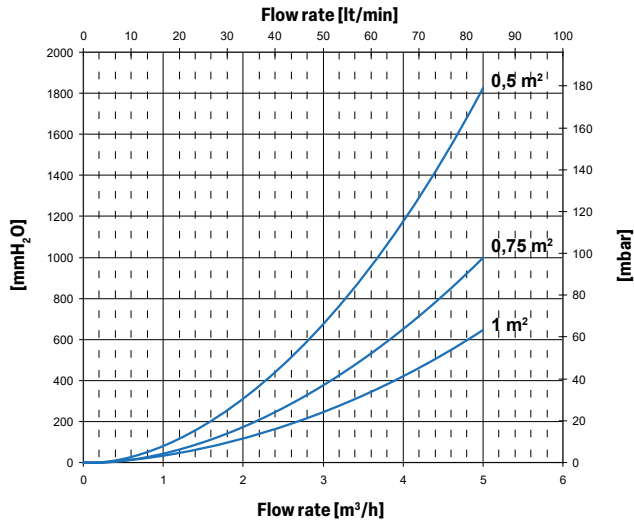


| Model | Heated volume:<br>Standard heat exchanger | Storage volume:<br>Heat exchanger for 100% heated volume | Advantage in exploited volume | Advantage in percentage |
|-------|-------------------------------------------|----------------------------------------------------------|-------------------------------|-------------------------|
|       | [lt]                                      | [lt]                                                     | [lt]                          | [%]                     |
| 200   | 165                                       | 190                                                      | 25                            | 13%                     |
| 300   | 251                                       | 285                                                      | 34                            | 12%                     |
| 500   | 438                                       | 485                                                      | 47                            | 10%                     |
| 800   | 694                                       | 790                                                      | 96                            | 12%                     |
| 1000  | 907                                       | 995                                                      | 88                            | 9%                      |

| Model | Heated volume:<br>Standard heat exchanger | Storage volume:<br>Heat exchanger for 100% heated volume | Advantage in exploited volume | Advantage in percentage |
|-------|-------------------------------------------|----------------------------------------------------------|-------------------------------|-------------------------|
|       | [lt]                                      | [lt]                                                     | [lt]                          | [%]                     |
| 1500  | 1224                                      | 1445                                                     | 221                           | 15%                     |
| 2000  | 1684                                      | 1978                                                     | 294                           | 15%                     |
| 2500  | 1905                                      | 2315                                                     | 410                           | 18%                     |
| 3000  | 2438                                      | 2921                                                     | 483                           | 17%                     |
| 4000  | 3113                                      | 3769                                                     | 656                           | 17%                     |
| 5000  | 4116                                      | 4982                                                     | 866                           | 17%                     |

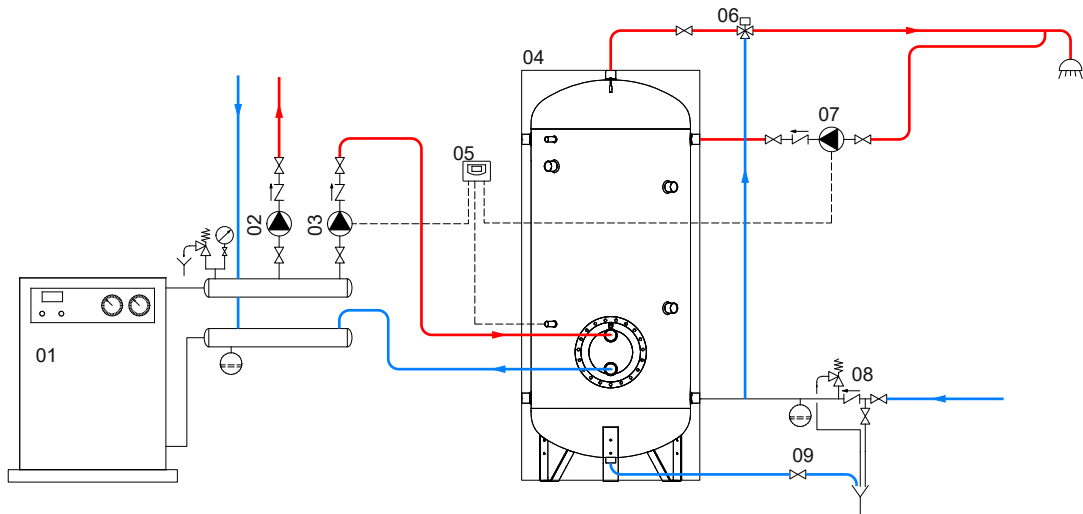
# EXTRA 1WX

## HEAT EXCHANGERS PRESSURE DROP



PERFORMANCE CHARTS AT PAGE 150-151

## EXAMPLE OF INSTALLATION WITH EXTRA 1



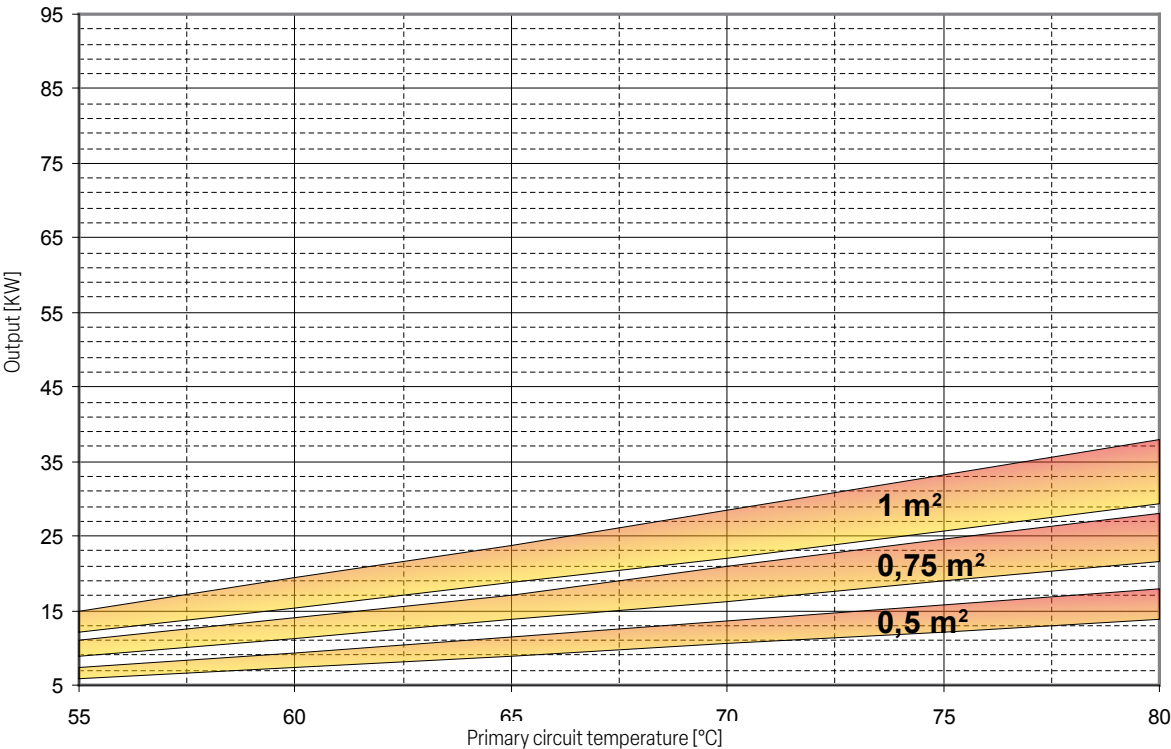
|   |                                  |   |                                           |   |                            |
|---|----------------------------------|---|-------------------------------------------|---|----------------------------|
| 1 | Generator                        | 4 | EXTRA 1                                   | 7 | D.H.W. recirculation group |
| 2 | Heating system circulation group | 5 | FULL CONTROL electronic unit / thermostat | 8 | Hydraulic safety group     |
| 3 | D.H.W. circulation group         | 6 | Thermostatic mixing valve                 | 9 | Blowdown valve             |

The following schemes are purely illustrative. To realize the installation, always refer to a qualified technician.

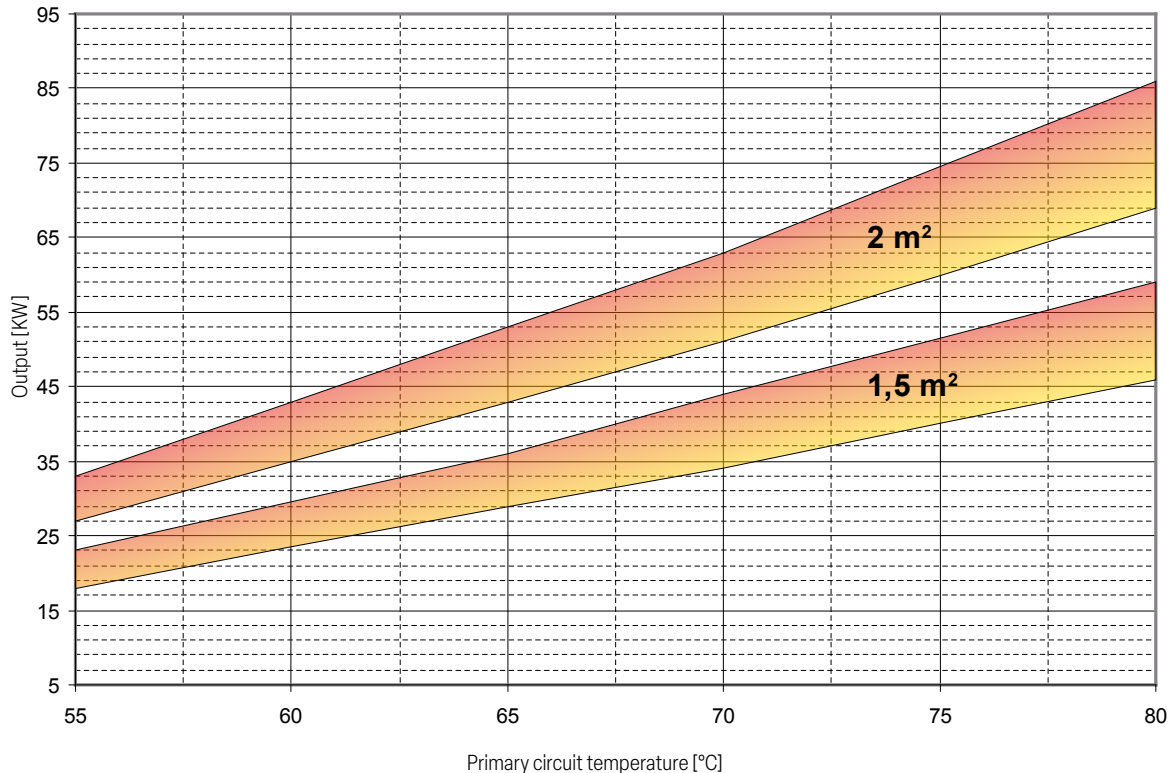
# EXTRA 1-2-3 WXC-XXC / EXTRA 1 COMPACT

## HEAT EXCHANGERS TECHNICAL DATA

Heat Exchanger output referred to temperature and flow rate of primary circuit and with secondary at 10/45°C at maximum withdrawal of producible DHW (Upper limit of the curves referred to maximum primary flow rate in the heat exchanger, while the lower limit in the curves refer to the minimum primary flow rate)



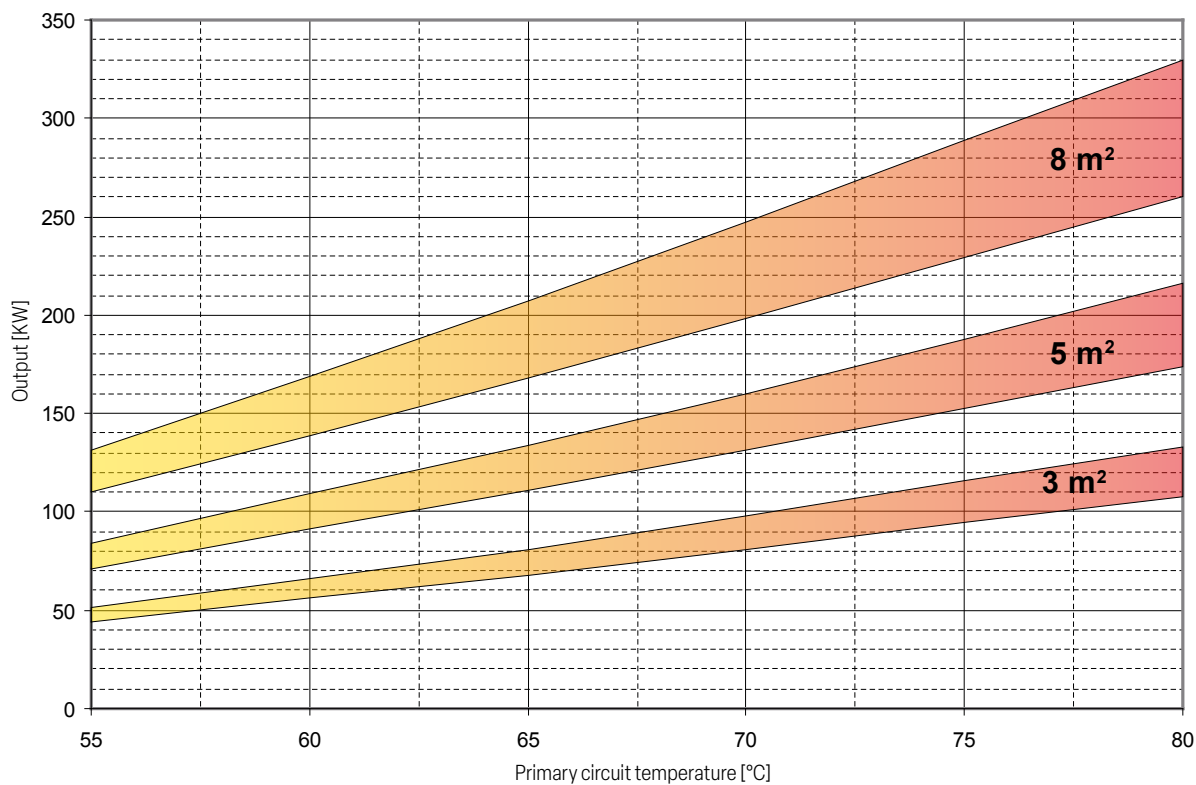
| Heat exchanger surface | 0,5 m <sup>2</sup> |     | 0,75 m <sup>2</sup> |     | 1 m <sup>2</sup> |     |
|------------------------|--------------------|-----|---------------------|-----|------------------|-----|
| Flow rate [m³/h]       | MAX                | MIN | MAX                 | MIN | MAX              | MIN |
|                        | 2                  | 1   | 3                   | 1,5 | 4                | 2   |



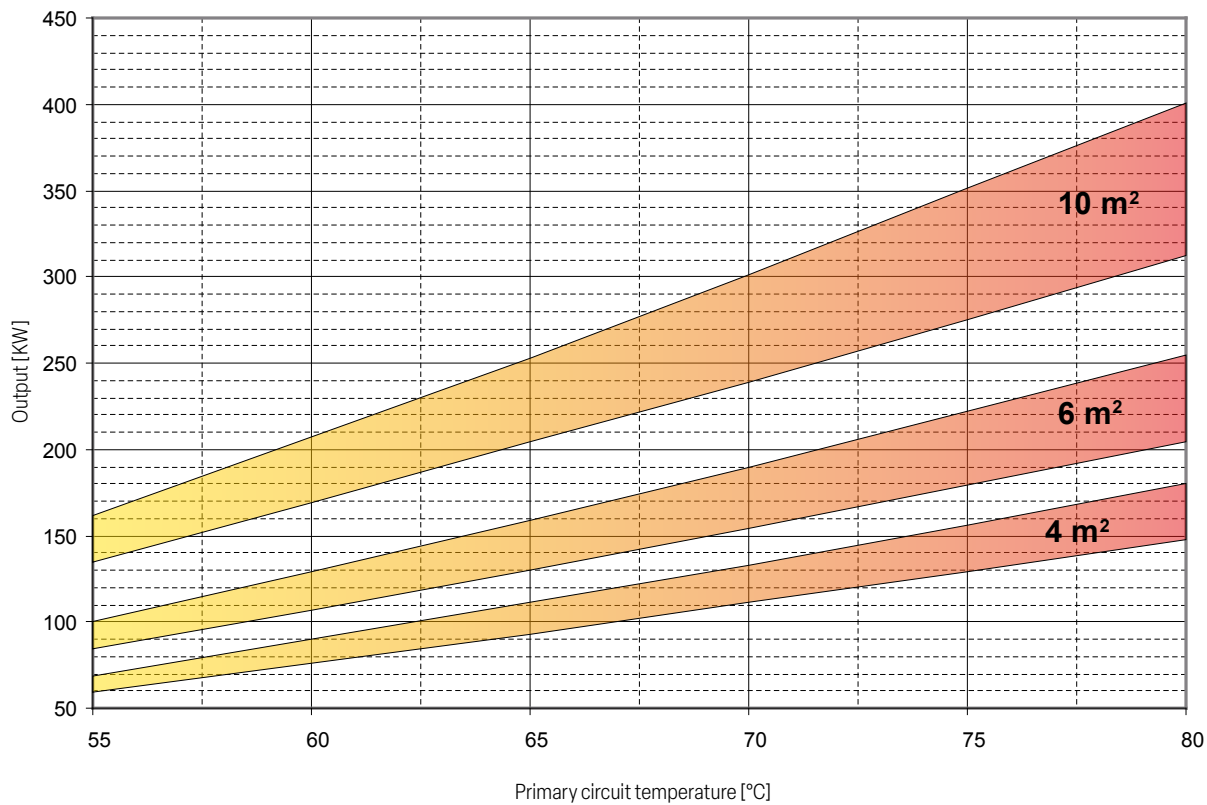
| Heat exchanger surface | 1,5 m <sup>2</sup> |     | 2 m <sup>2</sup> |     |
|------------------------|--------------------|-----|------------------|-----|
| Flow rate [m³/h]       | MAX                | MIN | MAX              | MIN |
|                        | 6                  | 3   | 10               | 5   |

# EXTRA 1-2-3 WXC-XXC / EXTRA 1 COMPACT

HEAT EXCHANGERS TECHNICAL DATA



| Heat exchanger surface        | 3 m <sup>2</sup> |     | 5 m <sup>2</sup> |     | 8 m <sup>2</sup> |     |
|-------------------------------|------------------|-----|------------------|-----|------------------|-----|
|                               | MAX              | MIN | MAX              | MIN | MAX              | MIN |
| Flow rate [m <sup>3</sup> /h] | 15               | 7,5 | 20               | 10  | 20               | 10  |



| Heat exchanger surface        | 4 m <sup>2</sup> |     | 6 m <sup>2</sup> |     | 10 m <sup>2</sup> |     |
|-------------------------------|------------------|-----|------------------|-----|-------------------|-----|
|                               | MAX              | MIN | MAX              | MIN | MAX               | MIN |
| Flow rate [m <sup>3</sup> /h] | 20               | 10  | 20               | 10  | 20                | 10  |