

# jaga

CLIMATE DESIGNERS



## DBH UPGRADE SET





# DBH UPGRADE SET

|  |           |   |           |
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# DBH UPGRADE SET

## THE EASIEST WAY TO AN ENVIRONMENTALLY FRIENDLY HVAC INSTALLATION

- switch to low temperature heating with heat pump or low temperature boiler
- suitable for environmentally friendly light cooling (Non-condensing)
- With breeze feature for a fan effect, does not depend on the water temperature. (\* only with ACO control)
- easy installation on all Jaga Low-H<sub>2</sub>O heating units

**FROM THE DESIGNERS OF THE FIRST LOW TEMPERATURE HEATER**

The DBH Upgrade set is a booster that was specially developed for Jaga Low-H<sub>2</sub>O heating units in order to increase the power and to enable low energy consumption cooling. This set makes it possible to greatly reduce the water temperature of your C.V. installation without having to install larger heating units or having to modify the pipes. Upgrading your existing Jaga heating units with the DBH set is the easiest option towards a low temperature installation or an emission-free heat pump installation for both heating and light cooling.

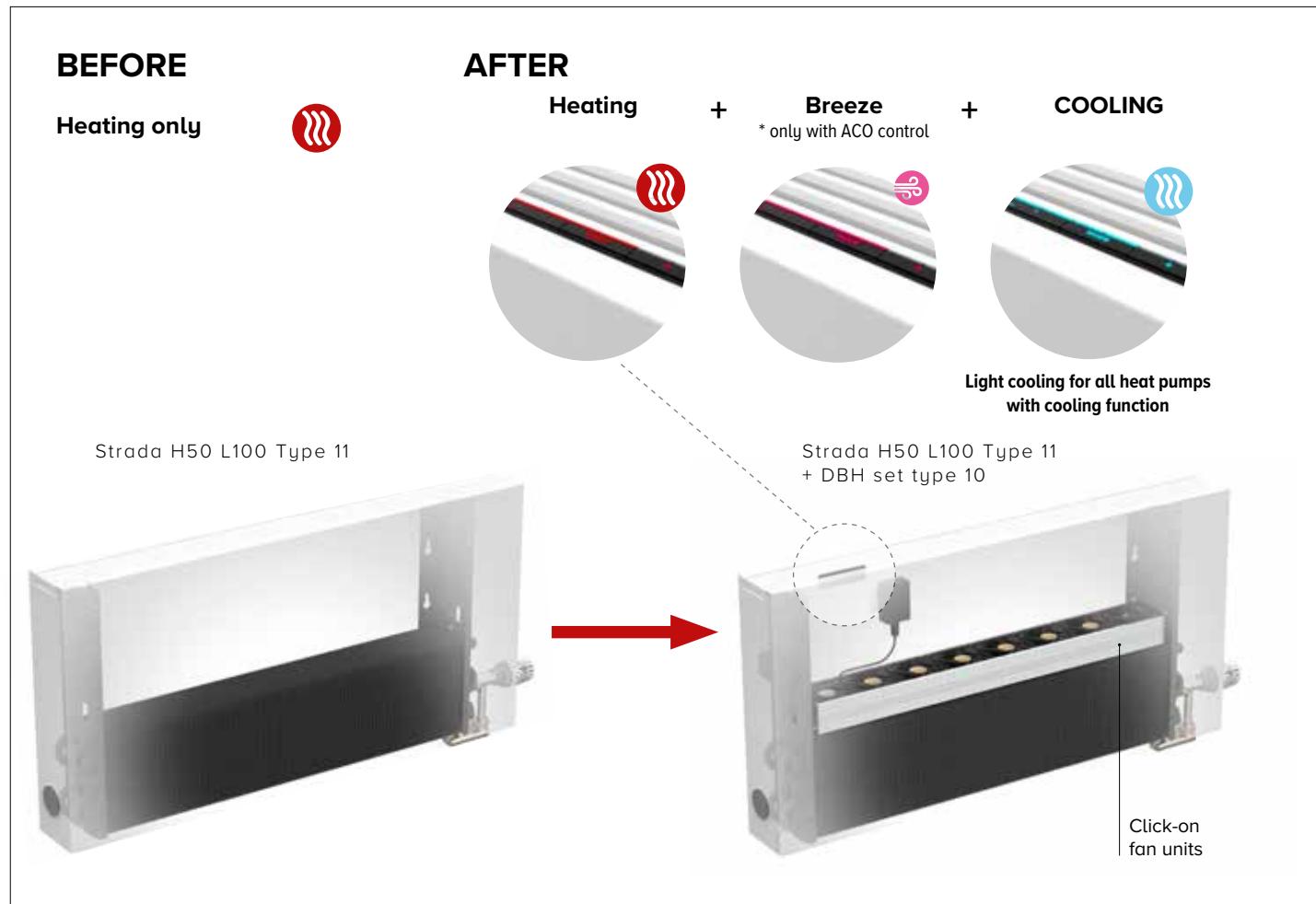
ALSO SUITABLE  
FOR JAGA  
LIGHT COOLING



## DBH UPGRADE SET

## A RENOVATION EXAMPLE BEFORE / AFTER

- energy-efficient non-condensing cooling in combination with any heat pump that can supply cooling water
- improves the seasonal efficiency of each heat pump
- makes sure that the condensing boilers are operating at their lowest temperature and as efficiently as possible.



### OUTPUTS WITHOUT DBH

#### TEMP. PROFILE

|       |            |
|-------|------------|
| 75/65 | 1386 Watts |
| 55/45 | 665 Watts  |
| 45/35 | 388 Watts  |

### OUTPUT WITH DBH

#### TEMP. PROFILE

| Position 2 | Position 3 |
|------------|------------|
| 55/45      | 1303 Watts |
| 45/35      | 1600 Watts |
| 35/30      | 823 Watts  |
|            | 1011 Watts |
|            | 495 Watts  |
|            | 608 Watts  |

### COOLING WITH DBH

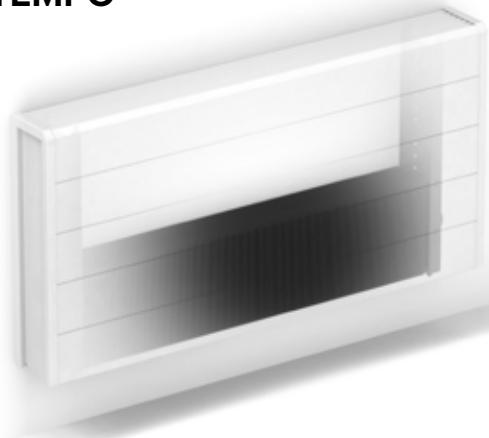
473 WATTS  
by regime  
16/18/27°

## DBH UPGRADE SET

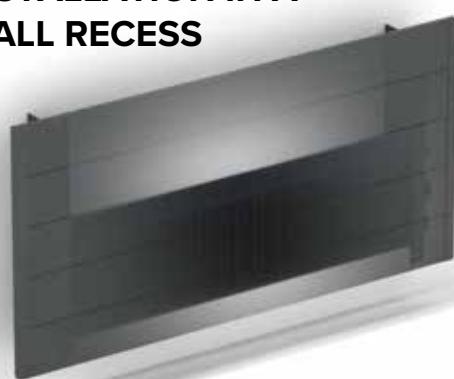
## FOR WHICH RADIATORS?

Almost all Jaga Low-H<sub>2</sub>O heating units can be equipped with the DBH Upgrade set:  
For more info on the DBH Upgrade Set, see [www.jaga.com](http://www.jaga.com)

**TEMPO**



**INSTALLATION IN A  
WALL RECESS**



**STRADA**



**LINEA PLUS**



## REPLACEMENT OF OTHER HEATING UNITS

Regular panel heaters are not suitable for a DBH- upgrade. You can, however, replace it with a Jaga heating unit that has same dimensions as the old heating unit. This way you can switch to a heating unit that is powerful enough to run at lower water temperatures without losing space to an extra or a larger heating unit.

**75/65**



**55/45**



## DBH UPGRADE SET

## WHICH DBH UPGRADE SET?

### STANDARD DELIVERY

- Fan unit(s)
- Control board with microcontroller
- AC adapter 230V / 24VDC

### ORDER CODE

DBHS 050 10 D01 EU

#### Control:

- D01 (Jaga TPT)
- D03 (Jaga BMS 0-10V control)
- D09 (Jaga ACO)

#### DBH Upgrade set:

- 10 (DBH unit 10)
- 15 (DBH unit 15)

#### Length radiator

### HOW DO I CHOOSE THE RIGHT SET?

- Measure the width and length of your Low-H<sub>2</sub>O heating unit.
- Thickness 11,5 cm = DBH unit 10
- Thickness 16,5 cm = DBH unit 15
- Thickness 21,5 cm = DBH unit 15
- The length of the cover determines how long the DBH-set should be.

### DBH UNIT 10

suitable for type 10 and 11:

- Strada
  - type 10 (min. height 020)
  - type 11 (min. height 035)
- Linea Plus type 10 and type 11 (min. height 035)
  - Installation in a wall recess
    - type 10 (min. height 020)
    - type 11 (min. height 030)



### DBH UNIT 15

suitable for type 15, 16, 20 and 21:

- Strada
  - type 15, 20 (min. height 020)
  - type 16, 21 (min. height 035)
- Linea Plus
  - type 15, 16, 20 and 21 (min. height 035)



type 10

type 11



type 15

type 16

type 20

type 21

## DBH UPGRADE SET

## SOUND PRESSURE LEVEL

### NOISE AND POWER ACCORDING TO THE LATEST EUROPEAN STANDARDS

The heat output of Jaga radiators with DBH was measured according to the latest European standards regarding heating units with integrated fans. Jaga is one of the first to comply with the new reference standard EN16430. The sound power (Lw) of the DBH is measured in accordance with ISO 3741:2010.. As is customary for the sound pressure (Lp), room attenuation of 8 dB(A) is assumed for room content of 100 m<sup>3</sup> and a reverberation time of 0.5 sec.

### HOW LOUD IS A DECIBEL?

| DB(A) | PERCEPTION     | EXAMPLES  |
|-------|----------------|---|
| 10    | hardly to hear | breathing, a falling leave                        |
| 20    | just audible   | radio studio, rustling of tree leaves             |
| 30    | very quiet     | library (30 to 40), whispering                    |
| 40    | quiet          | living room, quiet classroom, soft buzz, fridge   |
| 50    | limited sound  | air conditioning, normal conversation, dishwasher |

### HOW TO SELECT DBH?

DBH is selected in comfort mode, position 2 in bold in the output tables. This guarantees a quiet operation at a maximum of 30 dB(A). Position 1 is an extremely quiet bedroom setting with a maximum of 26 dB(A). Position 3 provides a maximum boost and the very high output serves primarily to heat up and cool down a room as quickly as possible. In this mode the noise is between 42 and 46 dB(A).

## CONTROL SYSTEMS



| TYPE                         | POSITION | CONTROL PANEL | EXTERNAL 0-10 V CONTROL | WATER TEMPERATURE SENSOR | AIR TEMPERATURE SENSOR |
|------------------------------|----------|---------------|-------------------------|--------------------------|------------------------|
| Jaga ACO (D09)               | 🕒 🌡️ 〽️  | ✓             | -                       | ✓                        | ✓                      |
| Jaga BMS 0-10V control (D03) | 🕒 🌡️     | -             | ✓                       | ✓                        | -                      |
| Jaga TPT (D01)               | 🕒 🌡️     | ✓             | -                       | ✓                        | ✓                      |

## JAGA ACO (D09)

- The fan speed is selected manually in 3 modes via the control panel.
- When the water temperature is lower than 24°C and the air is warmer than the water in the heat exchanger, the fans will start. The unit will then cool the area.
- When the water temperature is higher than 28°C and the air is colder than the water, the fans will start. The unit will then heat the area.
- The unit will **automatically** switch from heating to cooling and to standby mode.

## JAGA BMS 0-10V CONTROL (D03)

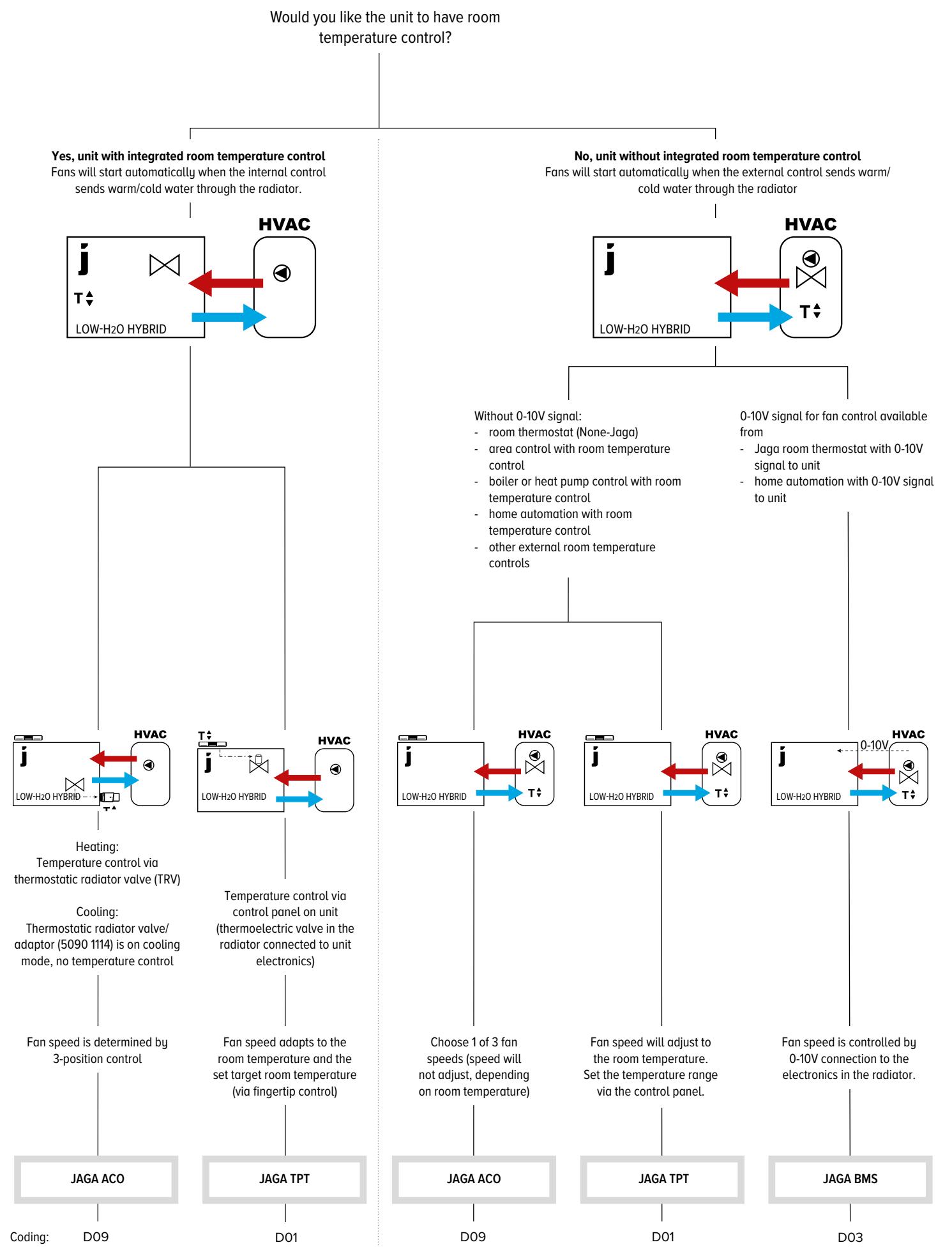
- The fan speed is only **controlled by a 0-10V (DC) signal** via an external control system that is installed into the electronics of the unit. The 0-10V signal can come from a Jaga thermostat or another home automation or building management system.
- When the control voltage is 1V or higher and the water temperature is higher than 28°C or lower than 24°C, the fans will start rotating. The rotational speed will increase proportionally with the configured control voltage. At 10V control voltage, the fans will rotate at maximum rotational speed.
- When a Hybrid unit with Jaga BMS control is equipped with a **thermoelectric valve motor** connected to the internal electronics, the valve will open when the control voltage exceeds 1V.

## JAGA TPT (D01)

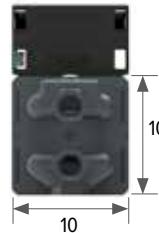
- The fan speed is automatically controlled in function of the preset comfort temperature via the fingertip controls. This allows the unit to be very silent once the comfort temperature is reached.
- When a Hybrid unit with Jaga TPT control is equipped with a thermoelectric valve motor connected to the internal electronics, the unit will take over the function of room thermostat. Based on the room temperature measurement, the unit will then switch on or off the water flow through the unit itself. When the water temperature in the heat exchanger is lower than 24°C, the fans will start. The unit will cool the area.
- If you wish to **set the room temperature via another system** that enables or disables the water flow through the unit, you do not need to connect a thermoelectric valve motor to the internal controller. The TPT controller will then only control the fan rotational speed based on the set comfort temperature. Intuitively, you will then use the fingertip control to get more or less fan support when the comfort temperature is reached.
- When the water temperature in the heat exchanger is lower than 24°C, the fans will start. The unit will cool the area.
- When the water temperature is higher than 28°C, the fans will start. The unit will heat the area.

# DBH UPGRADE SET

# WHICH JAGA CONTROL SYSTEM TO CHOOSE



# DBH SET 10 + LOW-H<sub>2</sub>O TYPE 10



| LENGTH RADIATOR | DBH SET | POSITION | COOLING Room temperature 27°C |         |       |       | HEATING Room temperature 20°C |       |       |       | SOUND PRESSURE* | ELECTRIC POWER CONSUMPTION | WEIGHT | WATER CONTENT | ORDER CODE         |  |  |
|-----------------|---------|----------|-------------------------------|---------|-------|-------|-------------------------------|-------|-------|-------|-----------------|----------------------------|--------|---------------|--------------------|--|--|
|                 |         |          | 16/18                         |         | 20/22 |       | 35/30                         |       | 45/40 |       | 50/45           |                            | 55/45  |               |                    |  |  |
|                 |         |          | L<br>cm                       | B<br>cm | Watts | Watts | Watts                         | Watts | Watts | Watts | Watts           | Watts                      | Watts  | Watts         |                    |  |  |
| DBHS            | 050     | 1        |                               |         | 90    | 54    | 144                           | 274   | 340   | 371   | 26              | 3.6                        |        |               | DBHS 050 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 96    | 58    | 154                           | 293   | 365   | 398   |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 113   | 68    | 180                           | 342   | 426   | 465   |                 |                            |        |               |                    |  |  |
|                 | 060     | 1        |                               |         | 117   | 70    | 186                           | 355   | 442   | 482   | 26              | 4.8                        |        |               | DBHS 060 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 125   | 75    | 199                           | 380   | 473   | 516   |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 148   | 89    | 236                           | 450   | 559   | 610   |                 |                            |        |               |                    |  |  |
|                 | 070     | 1        |                               |         | 143   | 86    | 228                           | 434   | 540   | 589   | 26              | 5.5                        |        |               | DBHS 070 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 153   | 92    | 244                           | 466   | 579   | 632   |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 183   | 110   | 292                           | 557   | 693   | 756   |                 |                            |        |               |                    |  |  |
|                 | 080     | 1        |                               |         | 168   | 101   | 269                           | 512   | 637   | 695   | 26              | 6.3                        |        |               | DBHS 080 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 181   | 109   | 289                           | 550   | 684   | 746   |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 218   | 132   | 348                           | 664   | 826   | 901   |                 |                            |        |               |                    |  |  |
|                 | 090     | 1        |                               |         | 193   | 117   | 309                           | 589   | 732   | 799   | 26              | 6.7                        |        |               | DBHS 090 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 208   | 125   | 332                           | 633   | 788   | 859   |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 253   | 153   | 405                           | 771   | 959   | 1046  |                 |                            |        |               |                    |  |  |
|                 | 100     | 1        |                               |         | 218   | 132   | 348                           | 664   | 826   | 901   | 26              | 7.8                        |        |               | DBHS 100 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 235   | 142   | 375                           | 715   | 890   | 971   |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 289   | 174   | 461                           | 878   | 1092  | 1191  |                 |                            |        |               |                    |  |  |
|                 | 110     | 1        |                               |         | 245   | 148   | 391                           | 745   | 927   | 1011  | 26              | 8.4                        |        |               | DBHS 110 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 264   | 159   | 421                           | 803   | 998   | 1089  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 324   | 195   | 517                           | 985   | 1226  | 1337  |                 |                            |        |               |                    |  |  |
|                 | 120     | 1        |                               |         | 267   | 161   | 426                           | 812   | 1010  | 1102  | 26              | 8.9                        |        |               | DBHS 120 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 288   | 174   | 460                           | 877   | 1091  | 1190  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 359   | 216   | 573                           | 1092  | 1359  | 1482  |                 |                            |        |               |                    |  |  |
|                 | 140     | 1        |                               |         | 314   | 189   | 502                           | 957   | 1190  | 1298  | 26              | 10.1                       |        |               | DBHS 140 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 341   | 205   | 544                           | 1036  | 1289  | 1406  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 429   | 259   | 685                           | 1307  | 1625  | 1773  |                 |                            |        |               |                    |  |  |
|                 | 160     | 1        |                               |         | 361   | 218   | 576                           | 1098  | 1366  | 1490  | 26              | 11                         |        |               | DBHS 160 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 392   | 236   | 626                           | 1192  | 1483  | 1618  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 500   | 301   | 798                           | 1521  | 1892  | 2063  |                 |                            |        |               |                    |  |  |
|                 | 180     | 1        |                               |         | 412   | 248   | 657                           | 1253  | 1559  | 1700  | 26              | 12.2                       |        |               | DBHS 180 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 447   | 269   | 714                           | 1360  | 1692  | 1845  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 570   | 344   | 910                           | 1735  | 2158  | 2354  |                 |                            |        |               |                    |  |  |
|                 | 200     | 1        |                               |         | 452   | 272   | 721                           | 1375  | 1710  | 1865  | 26              | 13.4                       |        |               | DBHS 200 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 493   | 297   | 786                           | 1499  | 1864  | 2033  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 641   | 386   | 1023                          | 1949  | 2424  | 2644  |                 |                            |        |               |                    |  |  |
|                 | 220     | 1        |                               |         | 494   | 297   | 788                           | 1502  | 1868  | 2038  | 26              | 13.4                       |        |               | DBHS 220 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 539   | 325   | 861                           | 1641  | 2041  | 2226  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 711   | 428   | 1135                          | 2163  | 2691  | 2935  |                 |                            |        |               |                    |  |  |
|                 | 240     | 1        |                               |         | 535   | 323   | 854                           | 1628  | 2025  | 2209  | 26              | 14.8                       |        |               | DBHS 240 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 586   | 353   | 936                           | 1784  | 2219  | 2420  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 781   | 471   | 1247                          | 2377  | 2957  | 3225  |                 |                            |        |               |                    |  |  |
|                 | 260     | 1        |                               |         | 579   | 349   | 925                           | 1762  | 2192  | 2391  | 26              | 16.2                       |        |               | DBHS 260 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 639   | 385   | 1020                          | 1944  | 2418  | 2637  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 852   | 513   | 1360                          | 2592  | 3224  | 3516  |                 |                            |        |               |                    |  |  |
|                 | 280     | 1        |                               |         | 588   | 354   | 959                           | 1827  | 2272  | 2479  | 26              | 16.2                       |        |               | DBHS 280 10 DDD EU |  |  |
|                 |         | 2        |                               |         | 649   | 391   | 1058                          | 2017  | 2509  | 2737  |                 |                            |        |               |                    |  |  |
|                 |         | 3        |                               |         | 864   | 521   | 1410                          | 2687  | 3342  | 3645  |                 |                            |        |               |                    |  |  |

Output measured in accordance with EN 16430.

control:  
 Jaga ACO (D09)  
 Jaga BMS 0-10V control (D03)  
 Jaga TPT (D01)

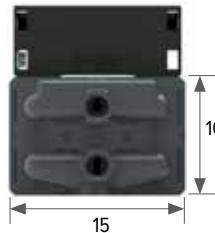
# DBH SET 10 + LOW-H2O TYPE 11



| LENGTH RADIATOR<br>L<br>cm | DBH SET<br>B<br>cm | POSITION<br>1<br>2<br>3 | COOLING<br>Room temperature 27°C |     |                |      | HEATING<br>Room temperature 20°C |      |                |      | SOUND PRESSURE* |     |                |     | ORDER CODE |       |    |  |
|----------------------------|--------------------|-------------------------|----------------------------------|-----|----------------|------|----------------------------------|------|----------------|------|-----------------|-----|----------------|-----|------------|-------|----|--|
|                            |                    |                         | 16/18<br>Watts                   |     | 20/22<br>Watts |      | 35/30<br>Watts                   |      | 45/40<br>Watts |      | 50/45<br>Watts  |     | 55/45<br>Watts |     | dB(A)      | Watts | kg | L  |
|                            |                    |                         | DBHS                             | 050 | 10             | 1    | 148                              | 90   | 190            | 366  | 457             | 499 | 26             | 3.6 |            |       |    | DBHS 050 10 DDD EU   |
| 050                        | 10                 | 1                       | 148                              | 90  | 190            | 366  | 457                              | 499  | 26             | 3.6  |                 |     |                |     |            |       |    | DBHS 050 10 DDD EU   |
|                            |                    | 2                       | 158                              | 97  | 203            | 391  | 489                              | 534  | 26             | 4.8  |                 |     |                |     |            |       |    | DBHS 060 10 DDD EU   |
|                            |                    | 3                       | 185                              | 113 | 237            | 458  | 572                              | 624  | 26             | 5.5  |                 |     |                |     |            |       |    | DBHS 070 10 DDD EU   |
|                            | 060                | 1                       | 191                              | 117 | 246            | 474  | 592                              | 647  | 26             | 6.3  |                 |     |                |     |            |       |    | DBHS 080 10 DDD EU   |
|                            |                    | 2                       | 205                              | 125 | 263            | 508  | 634                              | 693  | 26             | 6.7  |                 |     |                |     |            |       |    | DBHS 090 10 DDD EU   |
|                            |                    | 3                       | 242                              | 148 | 311            | 601  | 750                              | 819  | 26             | 7.8  |                 |     |                |     |            |       |    | DBHS 100 10 DDD EU   |
|                            | 070                | 1                       | 234                              | 143 | 301            | 580  | 724                              | 791  | 26             | 8.4  |                 |     |                |     |            |       |    | DBHS 110 10 DDD EU   |
|                            |                    | 2                       | 251                              | 154 | 322            | 622  | 777                              | 849  | 26             | 8.9  |                 |     |                |     |            |       |    | DBHS 120 10 DDD EU   |
|                            |                    | 3                       | 300                              | 184 | 386            | 744  | 929                              | 1015 | 26             | 10.1 |                 |     |                |     |            |       |    | DBHS 140 10 DDD EU   |
| 080                        | 10                 | 1                       | 276                              | 169 | 355            | 684  | 854                              | 933  | 26             | 11   |                 |     |                |     |            |       |    | DBHS 160 10 DDD EU   |
|                            |                    | 2                       | 296                              | 181 | 381            | 735  | 917                              | 1002 | 26             | 12.2 |                 |     |                |     |            |       |    | DBHS 180 10 DDD EU   |
|                            |                    | 3                       | 358                              | 219 | 460            | 887  | 1107                             | 1210 | 26             | 13.4 |                 |     |                |     |            |       |    | DBHS 200 10 DDD EU   |
|                            | 090                | 1                       | 317                              | 194 | 408            | 786  | 982                              | 1072 | 26             | 13.4 |                 |     |                |     |            |       |    | DBHS 220 10 DDD EU   |
|                            |                    | 2                       | 341                              | 209 | 438            | 846  | 1056                             | 1154 | 26             | 14.8 |                 |     |                |     |            |       |    | DBHS 240 10 DDD EU   |
|                            |                    | 3                       | 415                              | 254 | 534            | 1030 | 1286                             | 1405 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 260 10 DDD EU   |
|                            | 100                | 1                       | 358                              | 219 | 460            | 887  | 1107                             | 1210 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 280 10 DDD EU   |
|                            |                    | 2                       | 385                              | 236 | 495            | 955  | 1193                             | 1303 | 26             | 16.2 |                 |     |                |     |            |       |    | control:<br>Jaga ACO (D09)<br>Jaga BMS 0-10V control (D03)<br>Jaga TPT (D01) |
|                            |                    | 3                       | 473                              | 289 | 608            | 1173 | 1464                             | 1600 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 090 10 DDD EU   |
| 110                        | 10                 | 1                       | 401                              | 246 | 516            | 995  | 1242                             | 1357 | 26             | 8.4  |                 |     |                |     |            |       |    | DBHS 110 10 DDD EU   |
|                            |                    | 2                       | 432                              | 265 | 556            | 1072 | 1339                             | 1462 | 26             | 8.9  |                 |     |                |     |            |       |    | DBHS 130 10 DDD EU   |
|                            |                    | 3                       | 531                              | 325 | 682            | 1316 | 1643                             | 1795 | 26             | 10.1 |                 |     |                |     |            |       |    | DBHS 150 10 DDD EU   |
|                            | 120                | 1                       | 437                              | 267 | 562            | 1084 | 1354                             | 1479 | 26             | 11   |                 |     |                |     |            |       |    | DBHS 170 10 DDD EU   |
|                            |                    | 2                       | 473                              | 289 | 607            | 1171 | 1463                             | 1598 | 26             | 12.2 |                 |     |                |     |            |       |    | DBHS 190 10 DDD EU   |
|                            |                    | 3                       | 589                              | 360 | 756            | 1459 | 1822                             | 1990 | 26             | 13.4 |                 |     |                |     |            |       |    | DBHS 210 10 DDD EU   |
|                            | 140                | 1                       | 515                              | 315 | 662            | 1277 | 1595                             | 1743 | 26             | 14.8 |                 |     |                |     |            |       |    | DBHS 230 10 DDD EU   |
|                            |                    | 2                       | 558                              | 342 | 717            | 1383 | 1728                             | 1887 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 250 10 DDD EU   |
|                            |                    | 3                       | 704                              | 431 | 904            | 1745 | 2179                             | 2380 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 270 10 DDD EU   |
| 160                        | 10                 | 1                       | 592                              | 362 | 760            | 1467 | 1832                             | 2001 | 26             | 11   |                 |     |                |     |            |       |    | DBHS 160 10 DDD EU   |
|                            |                    | 2                       | 642                              | 393 | 825            | 1592 | 1988                             | 2172 | 26             | 12.2 |                 |     |                |     |            |       |    | DBHS 180 10 DDD EU   |
|                            |                    | 3                       | 819                              | 501 | 1053           | 2031 | 2536                             | 2771 | 26             | 13.4 |                 |     |                |     |            |       |    | DBHS 200 10 DDD EU   |
|                            | 180                | 1                       | 675                              | 413 | 867            | 1673 | 2090                             | 2283 | 26             | 14.8 |                 |     |                |     |            |       |    | DBHS 220 10 DDD EU   |
|                            |                    | 2                       | 733                              | 449 | 942            | 1816 | 2268                             | 2478 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 240 10 DDD EU   |
|                            |                    | 3                       | 935                              | 572 | 1201           | 2317 | 2893                             | 3161 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 260 10 DDD EU   |
|                            | 200                | 1                       | 741                              | 453 | 952            | 1836 | 2293                             | 2505 | 26             | 13.4 |                 |     |                |     |            |       |    | DBHS 280 10 DDD EU   |
|                            |                    | 2                       | 807                              | 494 | 1037           | 2001 | 2499                             | 2730 | 26             | 14.8 |                 |     |                |     |            |       |    | DBHS 300 10 DDD EU   |
|                            |                    | 3                       | 1050                             | 643 | 1349           | 2603 | 3250                             | 3551 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 320 10 DDD EU   |
| 220                        | 10                 | 1                       | 809                              | 495 | 1040           | 2005 | 2505                             | 2736 | 26             | 13.4 |                 |     |                |     |            |       |    | DBHS 220 10 DDD EU   |
|                            |                    | 2                       | 884                              | 541 | 1136           | 2191 | 2737                             | 2990 | 26             | 14.8 |                 |     |                |     |            |       |    | DBHS 240 10 DDD EU   |
|                            |                    | 3                       | 1166                             | 713 | 1498           | 2889 | 3608                             | 3941 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 260 10 DDD EU   |
|                            | 240                | 1                       | 877                              | 537 | 1127           | 2174 | 2715                             | 2967 | 26             | 14.8 |                 |     |                |     |            |       |    | DBHS 280 10 DDD EU   |
|                            |                    | 2                       | 961                              | 588 | 1235           | 2382 | 2975                             | 3250 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 300 10 DDD EU   |
|                            |                    | 3                       | 1281                             | 784 | 1646           | 3175 | 3965                             | 4331 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 320 10 DDD EU   |
| 260                        | 10                 | 1                       | 950                              | 581 | 1220           | 2353 | 2939                             | 3211 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 340 10 DDD EU   |
|                            |                    | 2                       | 1047                             | 641 | 1346           | 2596 | 3241                             | 3541 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 360 10 DDD EU   |
|                            |                    | 3                       | 1396                             | 855 | 1794           | 3461 | 4322                             | 4722 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 380 10 DDD EU   |
|                            | 280                | 1                       | 956                              | 585 | 1286           | 2481 | 3098                             | 3385 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 400 10 DDD EU   |
|                            |                    | 2                       | 1056                             | 646 | 1420           | 2739 | 3421                             | 3737 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 420 10 DDD EU   |
|                            |                    | 3                       | 1406                             | 860 | 1892           | 3649 | 4557                             | 4978 | 26             | 16.2 |                 |     |                |     |            |       |    | DBHS 440 10 DDD EU   |

Output measured in accordance with EN 16430.

# DBH SET 15 + LOW-H2O TYPE 15



| LENGTH RADIATOR<br>L<br>cm | DBH SET<br>B<br>cm | POSITION<br>1<br>2<br>3 | COOLING<br>Room temperature 27°C |      |                |      | HEATING<br>Room temperature 20°C |      |                |      | SOUND PRESSURE*<br>dB(A) | ELECTRIC POWER<br>CONSUMPTION<br>Watts | WEIGHT<br>kg | WATER CONTENT<br>L | ORDER CODE         |  |  |  |  |  |
|----------------------------|--------------------|-------------------------|----------------------------------|------|----------------|------|----------------------------------|------|----------------|------|--------------------------|--|--------------|--------------------|--------------------|--|--|--|--|--|
|                            |                    |                         | 16/18<br>Watts                   |      | 20/22<br>Watts |      | 35/30<br>Watts                   |      | 45/40<br>Watts |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    |                         | 15                               | 1    | 131            | 78   | 212                              | 404  | 502            | 548  |                          |  |              |                    |                    |  |  |  |  |  |
| DBHS 060                   | 15                 | 1                       | 131                              | 78   | 212            | 404  | 502                              | 548  | 227            | 433  | 539                      | 588                                    | 41.1         | 7.2                | DBHS 060 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 140                              | 83   | 227            | 433  | 539                              | 588  |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 186                              | 110  | 301            | 574  | 713                              | 778  |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 070                | 1                       | 135                              | 80   | 237            | 452  | 562                              | 613  | 331            | 631  | 785                      | 856                                    | 41.1         | 7.2                | DBHS 070 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 145                              | 86   | 254            | 485  | 603                              | 658  |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 192                              | 114  | 337            | 642  | 798                              | 871  |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 080                | 1                       | 190                              | 113  | 309            | 589  | 732                              | 798  | 331            | 631  | 785                      | 856                                    | 42.4         | 9.0                | DBHS 080 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 204                              | 121  | 444            | 847  | 1053                             | 1149 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 274                              | 163  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
| DBHS 090                   | 1                  | 218                     | 129                              | 354  | 674            | 838  | 914                              | 379  | 722            | 898  | 980                      | 43.3                                   | 10.7         | DBHS 090 15 DDD EU |                    |  |  |  |  |  |
|                            | 2                  | 234                     | 139                              | 516  | 983            | 1223 | 1334                             |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 318                              | 189  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 100                | 1                       | 246                              | 146  | 398            | 759  | 944                              | 1029 | 426            | 812  | 1011                     | 1102                                   | 44.1         | 10.7               | DBHS 150 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 263                              | 156  | 588            | 1120 | 1393                             | 1519 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 362                              | 215  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 110                | 1                       | 250                              | 148  | 422            | 805  | 1001                             | 1092 | 452            | 862  | 1072                     | 1169                                   | 44.1         | 12.5               | DBHS 115 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 267                              | 159  | 623            | 1188 | 1478                             | 1612 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 369                              | 219  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
| DBHS 120                   | 1                  | 303                     | 180                              | 491  | 935            | 1163 | 1269                             | 525  | 1001           | 1246 | 1358                     | 44.8                                   | 14.3         | DBHS 120 15 DDD EU |                    |  |  |  |  |  |
|                            | 2                  | 324                     | 192                              | 731  | 1393           | 1733 | 1890                             |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 451                              | 267  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 140                | 1                       | 359                              | 213  | 582            | 1109 | 1379                             | 1504 | 623            | 1188 | 1477                     | 1611                                   | 45.4         | 16.1               | DBHS 140 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 384                              | 228  | 874            | 1666 | 2073                             | 2261 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 539                              | 320  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 160                | 1                       | 412                              | 245  | 669            | 1274 | 1585                             | 1729 | 714            | 1361 | 1692                     | 1846                                   | 46.4         | 19.6               | DBHS 160 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 440                              | 261  | 1018           | 1939 | 2412                             | 2631 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 628                              | 372  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
| DBHS 180                   | 1                  | 421                     | 250                              | 716  | 1364           | 1696 | 1850                             | 764  | 1456           | 1811 | 1975                     | 46.4                                   | 19.6         | DBHS 180 15 DDD EU |                    |  |  |  |  |  |
|                            | 2                  | 449                     | 266                              | 1089 | 2076           | 2582 | 2816                             |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 640                              | 380  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 200                | 1                       | 529                              | 314  | 858            | 1635 | 2033                             | 2218 | 904            | 1722 | 2142                     | 2337                                   | 47.1         | 23.5               | DBHS 200 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 557                              | 331  | 1304           | 2486 | 3092                             | 3372 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 804                              | 477  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 220                | 1                       | 587                              | 348  | 952            | 1815 | 2257                             | 2462 | 992            | 1890 | 2351                     | 2565                                   | 47.8         | 27.5               | DBHS 220 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 612                              | 363  | 1447           | 2759 | 3432                             | 3743 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 893                              | 530  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
| DBHS 240                   | 1                  | 646                     | 383                              | 1047 | 1995           | 2481 | 2707                             | 1591 | 3032           | 3771 | 4113                     | 48.1                                   | 29.7         | DBHS 240 15 DDD EU |                    |  |  |  |  |  |
|                            | 2                  | 669                     | 397                              | 1085 | 2068           | 2572 | 2805                             |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 981                              | 582  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 260                | 1                       | 654                              | 388  | 1094           | 2085 | 2593                             | 2828 | 1133           | 2160 | 2687                     | 2931                                   | 48.1         | 29.7               | DBHS 260 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 678                              | 402  | 1662           | 3168 | 3941                             | 4298 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 994                              | 590  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            | 280                | 1                       | 762                              | 452  | 1236           | 2355 | 2930                             | 3195 | 1263           | 2408 | 2995                     | 3267                                   | 48.9         | 34.5               | DBHS 280 15 DDD EU |  |  |  |  |  |
|                            |                    | 2                       | 779                              | 462  | 1877           | 3578 | 4451                             | 4855 |                |      |                          |  |              |                    |                    |  |  |  |  |  |
|                            |                    | 3                       | 1158                             | 687  |                |      |                                  |      |                |      |                          |  |              |                    |                    |  |  |  |  |  |

Output measured in accordance with EN 16430.

control:  
 Jaga ACO (D09)  
 Jaga BMS 0-10V control (D03)  
 Jaga TPT (D01)

# DBH SET 15 + LOW-H2O TYPE 16

| LENGTH RADIATOR<br>L<br>cm | DBH SET<br>B<br>cm | POSITION<br>1<br>2<br>3 | COOLING<br>Room temperature 27°C |       |                |      | HEATING<br>Room temperature 20°C |      |                |      | SOUND PRESSURE* |  |                | ORDER CODE |                    |  |
|----------------------------|--------------------|-------------------------|----------------------------------|-------|----------------|------|----------------------------------|------|----------------|------|-----------------|--|----------------|------------|--------------------|--|
|                            |                    |                         | 16/18<br>Watts                   |       | 20/22<br>Watts |      | 35/30<br>Watts                   |      | 45/40<br>Watts |      | 50/45<br>Watts  |  | 55/45<br>Watts |            |                    |  |
|                            |                    |                         | dB(A)                            | Watts | kg             | L    |                                  |      |                |      |                 |  |                |            |                    |  |
| DBHS 060                   | 15                 | 1                       | 214                              | 131   | 301            | 581  | 726                              | 793  | 41.1           | 7.2  |                 |  |                |            | DBHS 060 15 DDD EU |  |
|                            |                    | 2                       | 230                              | 141   | 323            | 624  | 779                              | 851  |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 305                              | 187   | 428            | 826  | 1031                             | 1126 |                |      |                 |  |                |            |                    |  |
|                            | 070                | 1                       | 220                              | 134   | 350            | 676  | 844                              | 922  | 41.1           | 7.2  |                 |  |                |            | DBHS 070 15 DDD EU |  |
|                            |                    | 2                       | 236                              | 144   | 376            | 725  | 906                              | 990  |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 312                              | 191   | 498            | 960  | 1199                             | 1310 |                |      |                 |  |                |            |                    |  |
|                            | 080                | 1                       | 312                              | 191   | 439            | 847  | 1058                             | 1156 | 42.4           | 9.0  |                 |  |                |            | DBHS 080 15 DDD EU |  |
|                            |                    | 2                       | 335                              | 205   | 471            | 908  | 1134                             | 1239 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 450                              | 275   | 632            | 1219 | 1522                             | 1663 |                |      |                 |  |                |            |                    |  |
| DBHS 090                   | 1                  | 358                     | 219                              | 503   | 970            | 1211 | 1323                             | 43.3 | 10.7           |      |                 |  |                |            | DBHS 090 15 DDD EU |  |
|                            | 2                  | 383                     | 235                              | 539   | 1039           | 1298 | 1418                             |      |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 522                              | 319   | 734            | 1415 | 1767                             | 1931 |                |      |                 |  |                |            |                    |  |
|                            | 100                | 1                       | 403                              | 247   | 566            | 1092 | 1364                             | 1490 | 44.1           | 10.7 |                 |  |                |            | DBHS 150 15 DDD EU |  |
|                            |                    | 2                       | 431                              | 264   | 606            | 1169 | 1460                             | 1595 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 595                              | 364   | 836            | 1612 | 2013                             | 2199 |                |      |                 |  |                |            |                    |  |
|                            | 110                | 1                       | 408                              | 250   | 613            | 1183 | 1477                             | 1614 | 44.1           | 12.5 |                 |  |                |            | DBHS 115 15 DDD EU |  |
|                            |                    | 2                       | 437                              | 267   | 657            | 1267 | 1582                             | 1728 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 602                              | 368   | 905            | 1746 | 2181                             | 2382 |                |      |                 |  |                |            |                    |  |
| DBHS 120                   | 1                  | 496                     | 304                              | 698   | 1346           | 1681 | 1836                             | 44.8 | 14.3           |      |                 |  |                |            | DBHS 120 15 DDD EU |  |
|                            |                    | 2                       | 532                              | 326   | 747            | 1441 | 1800                             | 1966 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 740                              | 453   | 1039           | 2005 | 2504                             | 2735 |                |      |                 |  |                |            |                    |  |
|                            | 140                | 1                       | 589                              | 360   | 827            | 1596 | 1993                             | 2177 | 45.4           | 16.1 |                 |  |                |            | DBHS 140 15 DDD EU |  |
|                            |                    | 2                       | 630                              | 386   | 886            | 1709 | 2134                             | 2332 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 885                              | 542   | 1243           | 2398 | 2995                             | 3272 |                |      |                 |  |                |            |                    |  |
|                            | 160                | 1                       | 676                              | 414   | 951            | 1834 | 2290                             | 2502 | 46.4           | 19.6 |                 |  |                |            | DBHS 160 15 DDD EU |  |
|                            |                    | 2                       | 722                              | 442   | 1015           | 1958 | 2445                             | 2671 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1030                             | 630   | 1447           | 2791 | 3486                             | 3808 |                |      |                 |  |                |            |                    |  |
| DBHS 180                   | 1                  | 686                     | 420                              | 1042  | 2011           | 2511 | 2743                             | 46.4 | 19.6           |      |                 |  |                |            | DBHS 180 15 DDD EU |  |
|                            |                    | 2                       | 733                              | 448   | 1113           | 2147 | 2681                             | 2929 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1045                             | 639   | 1586           | 3060 | 3821                             | 4175 |                |      |                 |  |                |            |                    |  |
|                            | 200                | 1                       | 868                              | 531   | 1220           | 2352 | 2938                             | 3210 | 47.1           | 23.5 |                 |  |                |            | DBHS 200 15 DDD EU |  |
|                            |                    | 2                       | 914                              | 559   | 1285           | 2479 | 3096                             | 3382 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1003                             | 808   | 1855           | 3577 | 4468                             | 4881 |                |      |                 |  |                |            |                    |  |
|                            | 220                | 1                       | 963                              | 590   | 1354           | 2612 | 3262                             | 3563 | 47.8           | 27.5 |                 |  |                |            | DBHS 220 15 DDD EU |  |
|                            |                    | 2                       | 1320                             | 614   | 1410           | 2721 | 3398                             | 3712 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1098                             | 896   | 2058           | 3970 | 4958                             | 5417 |                |      |                 |  |                |            |                    |  |
| DBHS 240                   | 1                  | 1059                    | 648                              | 1488  | 2871           | 3586 | 3917                             | 48.1 | 29.7           |      |                 |  |                |            | DBHS 240 15 DDD EU |  |
|                            |                    | 2                       | 1108                             | 672   | 1543           | 2975 | 3716                             | 4060 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1610                             | 985   | 2262           | 4363 | 5449                             | 5953 |                |      |                 |  |                |            |                    |  |
|                            | 260                | 1                       | 1069                             | 654   | 1580           | 3048 | 3806                             | 4158 | 48.1           | 29.7 |                 |  |                |            | DBHS 260 15 DDD EU |  |
|                            |                    | 2                       | 1465                             | 678   | 1638           | 3159 | 3945                             | 4310 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1625                             | 994   | 2402           | 4632 | 5785                             | 6320 |                |      |                 |  |                |            |                    |  |
|                            | 280                | 1                       | 1250                             | 765   | 1757           | 3390 | 4233                             | 4625 | 48.9           | 34.5 |                 |  |                |            | DBHS 280 15 DDD EU |  |
|                            |                    | 2                       | 1278                             | 782   | 1797           | 3465 | 4328                             | 4728 |                |      |                 |  |                |            |                    |  |
|                            |                    | 3                       | 1900                             | 1163  | 2670           | 5150 | 6431                             | 7026 |                |      |                 |  |                |            |                    |  |

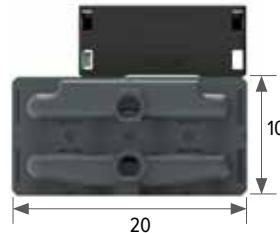
Output measured in accordance with EN 16430.

control:  
Jaga ACO (D09)

Jaga BMS 0-10V control (D03)

Jaga TPT (D01)

## DBH SET 15 + LOW-H2O TYPE 20



| LENGTH RADIATOR<br>L<br>cm | DBH SET<br>B<br>cm | POSITION<br>1<br>2<br>3 | COOLING<br>Room temperature 27°C |                | HEATING<br>Room temperature 20°C |                |                |                | SOUND PRESSURE*<br>dB(A) | ELECTRIC POWER<br>CONSUMPTION<br>Watts | WEIGHT<br>kg | WATER CONTENT<br>L | ORDER CODE         |
|----------------------------|--------------------|-------------------------|----------------------------------|----------------|----------------------------------|----------------|----------------|----------------|--------------------------|--|--------------|--------------------|--------------------|
|                            |                    |                         | 16/18<br>Watts                   | 20/22<br>Watts | 35/30<br>Watts                   | 45/40<br>Watts | 50/45<br>Watts | 55/45<br>Watts |                          |  |              |                    |                    |
|                            |                    |                         |                                  |                |                                  |                |                |                |                          |  |              |                    |                    |
| DBHS 060                   | 15                 | 1                       | 166                              | 102            | 298                              | 568            | 706            | 771            | 41.1                     | 7.2                                    |              |                    | DBHS 060 15 DDD EU |
|                            |                    | 2                       | <b>178</b>                       | <b>109</b>     | <b>319</b>                       | <b>608</b>     | <b>757</b>     | <b>825</b>     |                          |  |              |                    |                    |
|                            |                    | 3                       | 211                              | 129            | 378                              | 720            | 895            | 976            |                          |  |              |                    |                    |
|                            | 070                | 1                       | 171                              | 104            | 334                              | 637            | 792            | 864            | 41.1                     | 7.2                                    |              |                    | DBHS 070 15 DDD EU |
|                            |                    | 2                       | <b>183</b>                       | <b>112</b>     | <b>358</b>                       | <b>683</b>     | <b>849</b>     | <b>927</b>     |                          |  |              |                    |                    |
|                            |                    | 3                       | 219                              | 134            | 428                              | 817            | 1016           | 1108           |                          |  |              |                    |                    |
|                            | 080                | 1                       | 240                              | 147            | 430                              | 819            | 1019           | 1112           | 42.4                     | 9.0                                    |              |                    | DBHS 080 15 DDD EU |
|                            |                    | 2                       | <b>258</b>                       | <b>158</b>     | <b>462</b>                       | <b>880</b>     | <b>1095</b>    | <b>1194</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 311                              | 190            | 557                              | 1062           | 1321           | 1441           |                          |  |              |                    |                    |
| 090                        | 1                  | 1                       | 276                              | 169            | 494                              | 942            | 1171           | 1278           | 43.3                     | 10.7                                   |              |                    | DBHS 090 15 DDD EU |
|                            |                    | 2                       | <b>297</b>                       | <b>182</b>     | <b>532</b>                       | <b>1013</b>    | <b>1260</b>    | <b>1374</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 361                              | 221            | 647                              | 1234           | 1534           | 1674           |                          |  |              |                    |                    |
| 100                        | 1                  | 1                       | 311                              | 191            | 557                              | 1062           | 1321           | 1441           | 44.1                     | 10.7                                   |              |                    | DBHS 150 15 DDD EU |
|                            |                    | 2                       | <b>335</b>                       | <b>205</b>     | <b>601</b>                       | <b>1145</b>    | <b>1424</b>    | <b>1553</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 412                              | 252            | 737                              | 1405           | 1748           | 1906           |                          |  |              |                    |                    |
| 110                        | 1                  | 1                       | 317                              | 194            | 596                              | 1136           | 1413           | 1541           | 44.1                     | 12.5                                   |              |                    | DBHS 115 15 DDD EU |
|                            |                    | 2                       | <b>342</b>                       | <b>209</b>     | <b>642</b>                       | <b>1224</b>    | <b>1522</b>    | <b>1660</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 419                              | 257            | 788                              | 1502           | 1868           | 2038           |                          |  |              |                    |                    |
| 120                        | 1                  | 1                       | 381                              | 233            | 682                              | 1299           | 1616           | 1762           | 44.8                     | 14.3                                   |              |                    | DBHS 120 15 DDD EU |
|                            |                    | 2                       | <b>411</b>                       | <b>252</b>     | <b>736</b>                       | <b>1403</b>    | <b>1746</b>    | <b>1904</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 512                              | 313            | 917                              | 1748           | 2174           | 2371           |                          |  |              |                    |                    |
| 140                        | 1                  | 1                       | 448                              | 274            | 803                              | 1530           | 1903           | 2076           | 45.4                     | 16.1                                   |              |                    | DBHS 140 15 DDD EU |
|                            |                    | 2                       | <b>486</b>                       | <b>297</b>     | <b>870</b>                       | <b>1657</b>    | <b>2062</b>    | <b>2249</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 612                              | 375            | 1097                             | 2090           | 2600           | 2836           |                          |  |              |                    |                    |
| 160                        | 1                  | 1                       | 515                              | 315            | 922                              | 1757           | 2186           | 2384           | 46.4                     | 19.6                                   |              |                    | DBHS 160 15 DDD EU |
|                            |                    | 2                       | <b>559</b>                       | <b>342</b>     | <b>1001</b>                      | <b>1907</b>    | <b>2373</b>    | <b>2588</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 713                              | 436            | 1276                             | 2433           | 3026           | 3301           |                          |  |              |                    |                    |
| 180                        | 1                  | 1                       | 526                              | 322            | 995                              | 1897           | 2360           | 2574           | 46.4                     | 19.6                                   |              |                    | DBHS 180 15 DDD EU |
|                            |                    | 2                       | <b>571</b>                       | <b>350</b>     | <b>1081</b>                      | <b>2059</b>    | <b>2562</b>    | <b>2794</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 728                              | 446            | 1378                             | 2627           | 3267           | 3564           |                          |  |              |                    |                    |
| 200                        | 1                  | 1                       | 644                              | 394            | 1154                             | 2200           | 2736           | 2984           | 47.1                     | 23.5                                   |              |                    | DBHS 200 15 DDD EU |
|                            |                    | 2                       | <b>702</b>                       | <b>430</b>     | <b>1258</b>                      | <b>2397</b>    | <b>2982</b>    | <b>3253</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 914                              | 559            | 1636                             | 3118           | 3879           | 4230           |                          |  |              |                    |                    |
| 220                        | 1                  | 1                       | 704                              | 431            | 1261                             | 2403           | 2989           | 3260           | 47.8                     | 27.5                                   |              |                    | DBHS 220 15 DDD EU |
|                            |                    | 2                       | <b>769</b>                       | <b>471</b>     | <b>1377</b>                      | <b>2625</b>    | <b>3265</b>    | <b>3562</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 1014                             | 621            | 1816                             | 3461           | 4305           | 4695           |                          |  |              |                    |                    |
| 240                        | 1                  | 1                       | 763                              | 467            | 1367                             | 2605           | 3240           | 3534           | 48.1                     | 29.7                                   |              |                    | DBHS 240 15 DDD EU |
|                            |                    | 2                       | <b>836</b>                       | <b>512</b>     | <b>1497</b>                      | <b>2854</b>    | <b>3550</b>    | <b>3872</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 1114                             | 682            | 1996                             | 3804           | 4731           | 5160           |                          |  |              |                    |                    |
| 260                        | 1                  | 1                       | 768                              | 470            | 1426                             | 2718           | 3381           | 3688           | 48.1                     | 29.7                                   |              |                    | DBHS 260 15 DDD EU |
|                            |                    | 2                       | <b>848</b>                       | <b>519</b>     | <b>1573</b>                      | <b>2998</b>    | <b>3729</b>    | <b>4067</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 1130                             | 692            | 2097                             | 3997           | 4972           | 5423           |                          |  |              |                    |                    |
| 280                        | 1                  | 1                       | 894                              | 547            | 1602                             | 3052           | 3797           | 4141           | 48.9                     | 34.5                                   |              |                    | DBHS 280 15 DDD EU |
|                            |                    | 2                       | <b>987</b>                       | <b>604</b>     | <b>1768</b>                      | <b>3370</b>    | <b>4192</b>    | <b>4572</b>    |                          |  |              |                    |                    |
|                            |                    | 3                       | 1315                             | 805            | 2355                             | 4489           | 5583           | 6090           |                          |  |              |                    |                    |

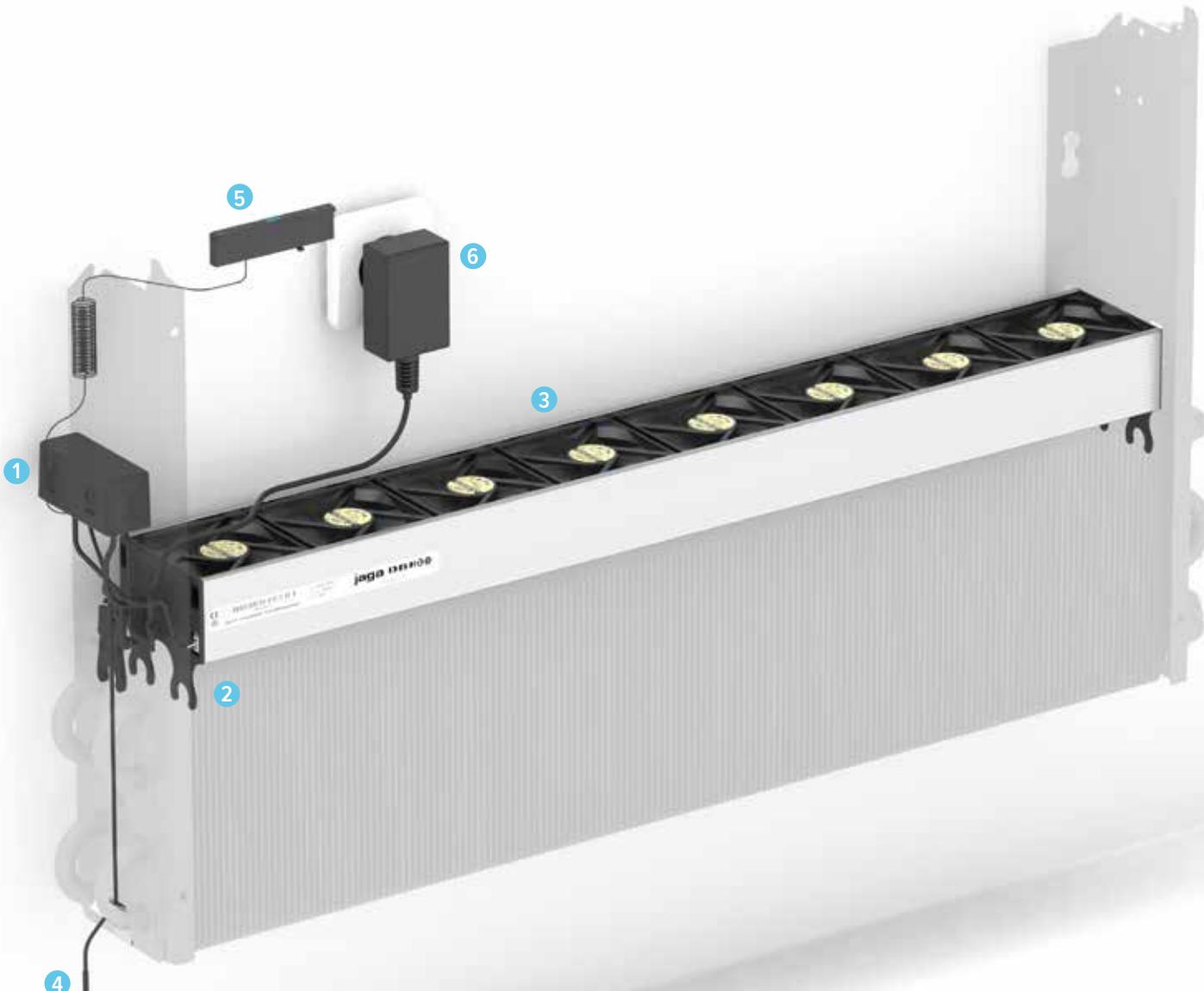
Output measured in accordance with EN 16430.

control:  
 Jaga ACO (D09)  
 Jaga BMS 0-10V control (D03)  
 Jaga TPT (D01)

# DBH SET 15 + LOW-H2O TYPE 21

| LENGTH RADIATOR | DBH SET | POSITION | COOLING<br>Room temperature 27°C |             |                |             | HEATING<br>Room temperature 20°C |             |                |     | SOUND PRESSURE* |      |                | WATER CONTENT | ORDER CODE |                    |  |
|-----------------|---------|----------|----------------------------------|-------------|----------------|-------------|----------------------------------|-------------|----------------|-----|-----------------|------|----------------|---------------|------------|--------------------|--|
|                 |         |          | 16/18<br>Watts                   |             | 20/22<br>Watts |             | 35/30<br>Watts                   |             | 45/40<br>Watts |     | 50/45<br>Watts  |      | 55/45<br>Watts |               |            |                    |  |
|                 |         |          | L<br>cm                          | B<br>cm     |                |             |                                  |             |                |     |                 |      |                |               |            |                    |  |
| DBHS            | 060     | 15       | 1                                | 234         | 151            | 416         | 779                              | 963         | 1048           | 447 | 836             | 1034 | 1125           | 41.1          | 7.2        | DBHS 060 15 DDD EU |  |
|                 |         |          | 2                                | <b>251</b>  | <b>162</b>     | <b>447</b>  | <b>836</b>                       | <b>1034</b> | <b>1125</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 332         | 214            | 591         | 1106                             | 1368        | 1488           |     |                 |      |                |               |            |                    |  |
|                 | 070     |          | 1                                | 240         | 155            | 456         | 854                              | 1056        | 1149           | 490 | 917             | 1134 | 1234           | 41.1          | 7.2        | DBHS 070 15 DDD EU |  |
|                 |         |          | 2                                | <b>258</b>  | <b>166</b>     | <b>490</b>  | <b>917</b>                       | <b>1134</b> | <b>1234</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 341         | 220            | 648         | 1214                             | 1501        | 1633           |     |                 |      |                |               |            |                    |  |
|                 | 080     |          | 1                                | 341         | 220            | 606         | 1135                             | 1404        | 1527           |     |                 |      |                | 42.4          | 9.0        | DBHS 080 15 DDD EU |  |
|                 |         |          | 2                                | <b>366</b>  | <b>236</b>     | <b>650</b>  | <b>1217</b>                      | <b>1505</b> | <b>1638</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 490         | 316            | 872         | 1633                             | 2019        | 2197           |     |                 |      |                |               |            |                    |  |
|                 | 090     |          | 1                                | 390         | 252            | 694         | 1300                             | 1607        | 1749           |     |                 |      |                | 43.3          | 10.7       | DBHS 090 15 DDD EU |  |
|                 |         |          | 2                                | <b>418</b>  | <b>270</b>     | <b>744</b>  | <b>1393</b>                      | <b>1722</b> | <b>1874</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 570         | 367            | 1013        | 1897                             | 2345        | 2552           |     |                 |      |                |               |            |                    |  |
|                 | 100     |          | 1                                | 439         | 283            | 782         | 1464                             | 1809        | 1969           |     |                 |      |                | 44.1          | 10.7       | DBHS 150 15 DDD EU |  |
|                 |         |          | 2                                | <b>471</b>  | <b>303</b>     | <b>837</b>  | <b>1567</b>                      | <b>1937</b> | <b>2108</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 649         | 418            | 1154        | 2160                             | 2671        | 2906           |     |                 |      |                |               |            |                    |  |
|                 | 110     |          | 1                                | 446         | 287            | 821         | 1536                             | 1899        | 2067           |     |                 |      |                | 44.1          | 12.5       | DBHS 115 15 DDD EU |  |
|                 |         |          | 2                                | <b>477</b>  | <b>308</b>     | <b>879</b>  | <b>1645</b>                      | <b>2034</b> | <b>2213</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 658         | 424            | 1211        | 2268                             | 2804        | 3051           |     |                 |      |                |               |            |                    |  |
|                 | 120     |          | 1                                | 542         | 349            | 963         | 1804                             | 2230        | 2426           |     |                 |      |                | 44.8          | 14.3       | DBHS 120 15 DDD EU |  |
|                 |         |          | 2                                | <b>580</b>  | <b>374</b>     | <b>1032</b> | <b>1932</b>                      | <b>2388</b> | <b>2598</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 807         | 520            | 1435        | 2687                             | 3322        | 3615           |     |                 |      |                |               |            |                    |  |
|                 | 140     |          | 1                                | 642         | 414            | 1143        | 2139                             | 2645        | 2877           |     |                 |      |                | 45.4          | 16.1       | DBHS 140 15 DDD EU |  |
|                 |         |          | 2                                | <b>688</b>  | <b>443</b>     | <b>1224</b> | <b>2291</b>                      | <b>2832</b> | <b>3082</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 965         | 622            | 1717        | 3214                             | 3974        | 4324           |     |                 |      |                |               |            |                    |  |
|                 | 160     |          | 1                                | 738         | 476            | 1313        | 2458                             | 3039        | 3307           |     |                 |      |                | 46.4          | 19.6       | DBHS 160 15 DDD EU |  |
|                 |         |          | 2                                | <b>788</b>  | <b>508</b>     | <b>1402</b> | <b>2624</b>                      | <b>3245</b> | <b>3530</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 1123        | 724            | 1998        | 3741                             | 4625        | 5033           |     |                 |      |                |               |            |                    |  |
|                 | 180     |          | 1                                | 750         | 483            | 1388        | 2599                             | 3214        | 3497           |     |                 |      |                | 46.4          | 19.6       | DBHS 180 15 DDD EU |  |
|                 |         |          | 2                                | <b>801</b>  | <b>516</b>     | <b>1482</b> | <b>2775</b>                      | <b>3431</b> | <b>3733</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 1142        | 736            | 2113        | 3956                             | 4891        | 5322           |     |                 |      |                |               |            |                    |  |
|                 | 200     |          | 1                                | 947         | 610            | 1684        | 3153                             | 3898        | 4242           |     |                 |      |                | 47.1          | 23.5       | DBHS 200 15 DDD EU |  |
|                 |         |          | 2                                | <b>998</b>  | <b>643</b>     | <b>1775</b> | <b>3322</b>                      | <b>4108</b> | <b>4469</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 1440        | 928            | 2561        | 4795                             | 5928        | 6450           |     |                 |      |                |               |            |                    |  |
|                 | 220     |          | 1                                | 1051        | 677            | 1870        | 3501                             | 4328        | 4709           |     |                 |      |                | 47.8          | 27.5       | DBHS 220 15 DDD EU |  |
|                 |         |          | 2                                | <b>1095</b> | <b>706</b>     | <b>1948</b> | <b>3646</b>                      | <b>4508</b> | <b>4905</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 1598        | 1030           | 2843        | 5322                             | 6579        | 7159           |     |                 |      |                |               |            |                    |  |
|                 | 240     |          | 1                                | 1155        | 745            | 2056        | 3848                             | 4758        | 5177           |     |                 |      |                | 48.1          | 29.7       | DBHS 240 15 DDD EU |  |
|                 |         |          | 2                                | <b>1197</b> | <b>772</b>     | <b>2130</b> | <b>3988</b>                      | <b>4931</b> | <b>5365</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 1756        | 1132           | 3124        | 5849                             | 7231        | 7868           |     |                 |      |                |               |            |                    |  |
|                 | 260     |          | 1                                | 1168        | 752            | 2131        | 3990                             | 4933        | 5367           |     |                 |      |                | 48.1          | 29.7       | DBHS 260 15 DDD EU |  |
|                 |         |          | 2                                | <b>1210</b> | <b>780</b>     | <b>2209</b> | <b>4135</b>                      | <b>5112</b> | <b>5562</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 1774        | 1144           | 3239        | 6064                             | 7497        | 8157           |     |                 |      |                |               |            |                    |  |
|                 | 280     |          | 1                                | 1364        | 879            | 2427        | 4543                             | 5617        | 6112           |     |                 |      |                | 48.9          | 34.5       | DBHS 280 15 DDD EU |  |
|                 |         |          | 2                                | <b>1395</b> | <b>899</b>     | <b>2481</b> | <b>4645</b>                      | <b>5743</b> | <b>6249</b>    |     |                 |      |                |               |            |                    |  |
|                 |         |          | 3                                | 2072        | 1336           | 3687        | 6902                             | 8534        | 9285           |     |                 |      |                |               |            |                    |  |

Output measured in accordance with EN 16430.



Stick the controller against the console.



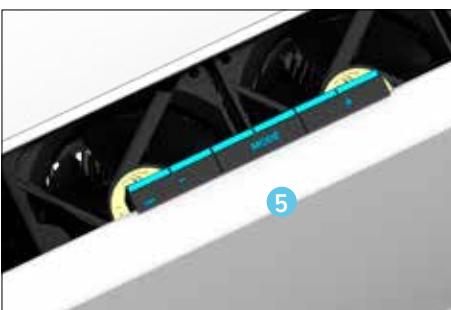
Click the water temperature sensor on the coil.



Connect the fan unit to the controller and click it on the heat exchanger.



Fix the room temperature sensor.



Put the cover back on the heating unit, but without the grille. Place the controls on the front panel.



Put the plug in the wall socket and put the grille back on the heating unit.

# RADIATORS WITH DBH UPGRADE SET

# CORRECTION FACTORS

The indicated outputs at  $\Delta T$  50 are exact values, measured in accordance with EN442. This table provides a calculated value using an average correction factor for all other  $\Delta T$  outputs, valid for all dimensions.

Click [www.jaga.com/selection-tools/](http://www.jaga.com/selection-tools/) to download the calculation tools with the exact outputs. The online calculation tools are kept up to date with the most recent data. Minor output differences between printed tables and the different online calculation tools are therefore completely normal and within the margins of tolerance imposed by the standard.

## AVERAGE CORRECTION FACTORS FOR HYBRID PRODUCTS - 75/65/20°C

| room temperature: 20°C |      |      |      |      |      |      |      |      |      |    | Average N-value: 1.10 |           |      |      |      |      |      |      |      |      |    |
|------------------------|------|------|------|------|------|------|------|------|------|----|-----------------------|-----------|------|------|------|------|------|------|------|------|----|
|                        | TR   | 65   | 60   | 55   | 50   | 45   | 40   | 35   | 30   | 25 |                       | TR        | 65   | 60   | 55   | 50   | 45   | 40   | 35   | 30   | 25 |
| <b>TA</b>              |      |      |      |      |      |      |      |      |      |    |                       | <b>TA</b> |      |      |      |      |      |      |      |      |    |
| <b>75</b>              | 1.00 | 0.94 | 0.88 | 0.81 | 0.74 | 0.67 | 0.59 | 0.50 | 0.38 |    | <b>75</b>             | 0.91      | 0.85 | 0.79 | 0.72 | 0.65 | 0.58 | 0.49 | 0.39 | 0.22 |    |
| <b>70</b>              | 0.95 | 0.89 | 0.83 | 0.77 | 0.70 | 0.63 | 0.55 | 0.47 | 0.36 |    | <b>70</b>             | 0.86      | 0.80 | 0.74 | 0.68 | 0.61 | 0.54 | 0.46 | 0.36 | 0.20 |    |
| <b>65</b>              |      | 0.84 | 0.78 | 0.72 | 0.66 | 0.59 | 0.52 | 0.43 | 0.33 |    | <b>65</b>             |           | 0.75 | 0.69 | 0.63 | 0.57 | 0.50 | 0.42 | 0.33 | 0.19 |    |
| <b>60</b>              |      |      | 0.73 | 0.67 | 0.61 | 0.55 | 0.48 | 0.40 | 0.30 |    | <b>60</b>             |           |      | 0.64 | 0.59 | 0.53 | 0.46 | 0.39 | 0.30 | 0.17 |    |
| <b>55</b>              |      |      |      | 0.62 | 0.57 | 0.51 | 0.44 | 0.37 | 0.28 |    | <b>55</b>             |           |      |      | 0.54 | 0.48 | 0.42 | 0.35 | 0.27 | 0.15 |    |
| <b>50</b>              |      |      |      |      | 0.52 | 0.46 | 0.40 | 0.33 | 0.25 |    | <b>50</b>             |           |      |      |      | 0.44 | 0.38 | 0.32 | 0.24 | 0.13 |    |
| <b>45</b>              |      |      |      |      |      | 0.42 | 0.36 | 0.29 | 0.22 |    | <b>45</b>             |           |      |      |      |      | 0.33 | 0.28 | 0.21 | 0.11 |    |
| <b>40</b>              |      |      |      |      |      |      | 0.31 | 0.26 | 0.19 |    | <b>40</b>             |           |      |      |      |      |      | 0.23 | 0.17 | 0.09 |    |
| <b>35</b>              |      |      |      |      |      |      |      | 0.22 | 0.15 |    | <b>35</b>             |           |      |      |      |      |      |      | 0.14 | 0.07 |    |
| <b>30</b>              |      |      |      |      |      |      |      |      | 0.12 |    | <b>30</b>             |           |      |      |      |      |      |      |      | 0.04 |    |

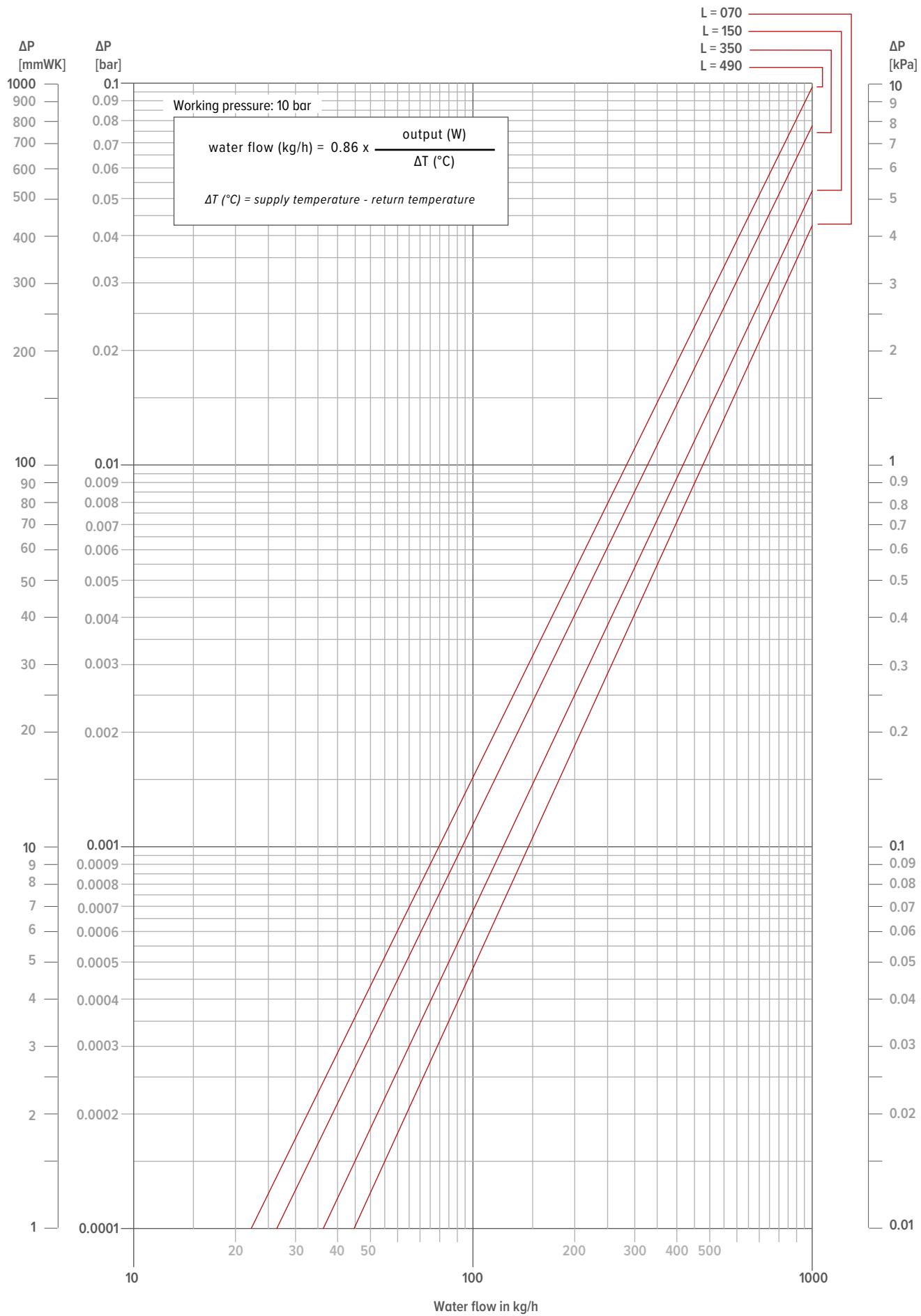
## COOLING CAPACITY CORRECTION FACTORS FOR TYPES 11, 16 AND 21

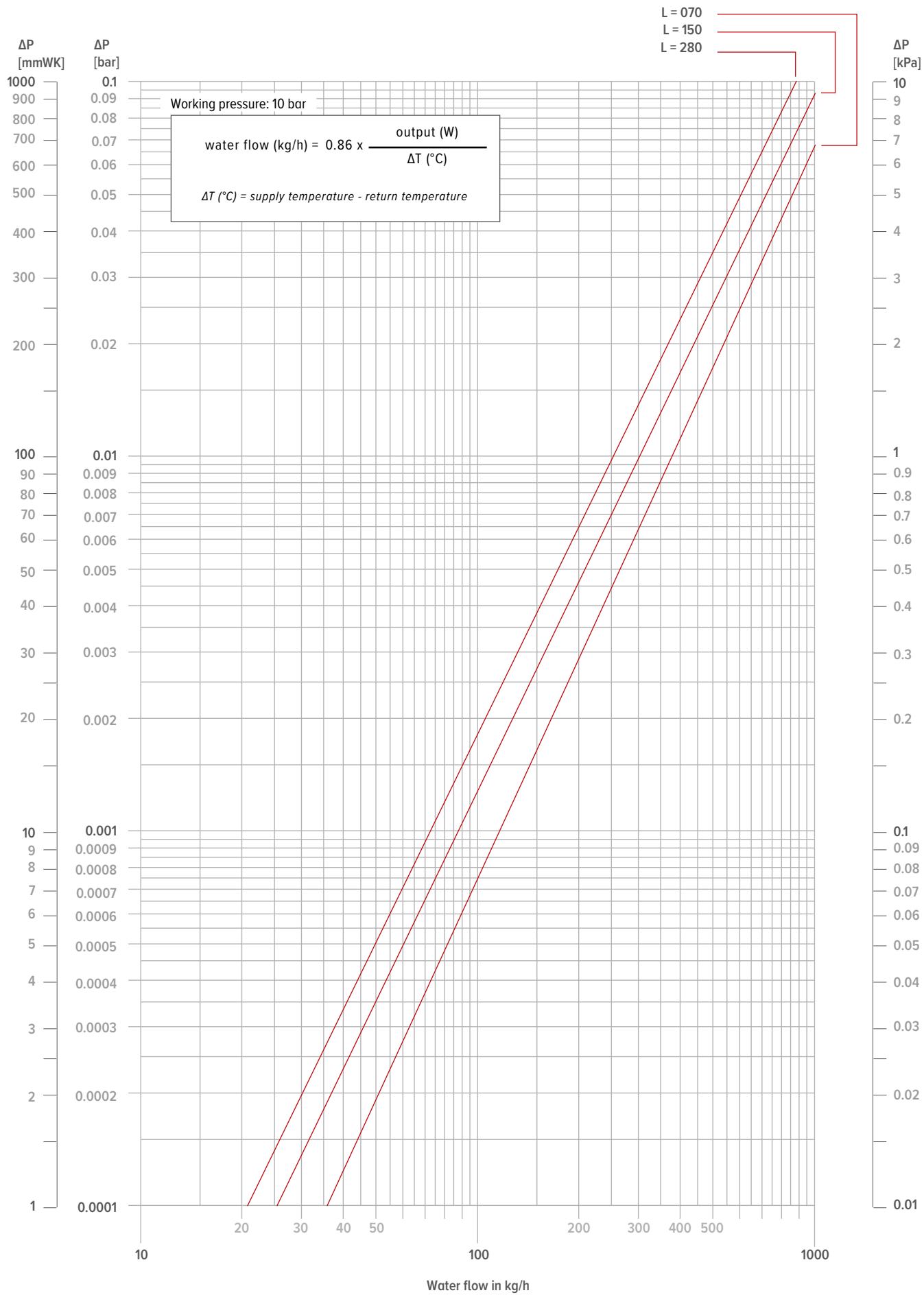
| HEIGHT            | CORRECTION FACTOR |
|-------------------|-------------------|
| 20 - 30 - 40 - 50 | 1.00              |
| 60                | 0.95              |
| 65                | 0.92              |
| 70                | 0.90              |
| 80                | 0.85              |
| 90                | 0.80              |
| 95                | 0.77              |
| 100               | 0.75              |

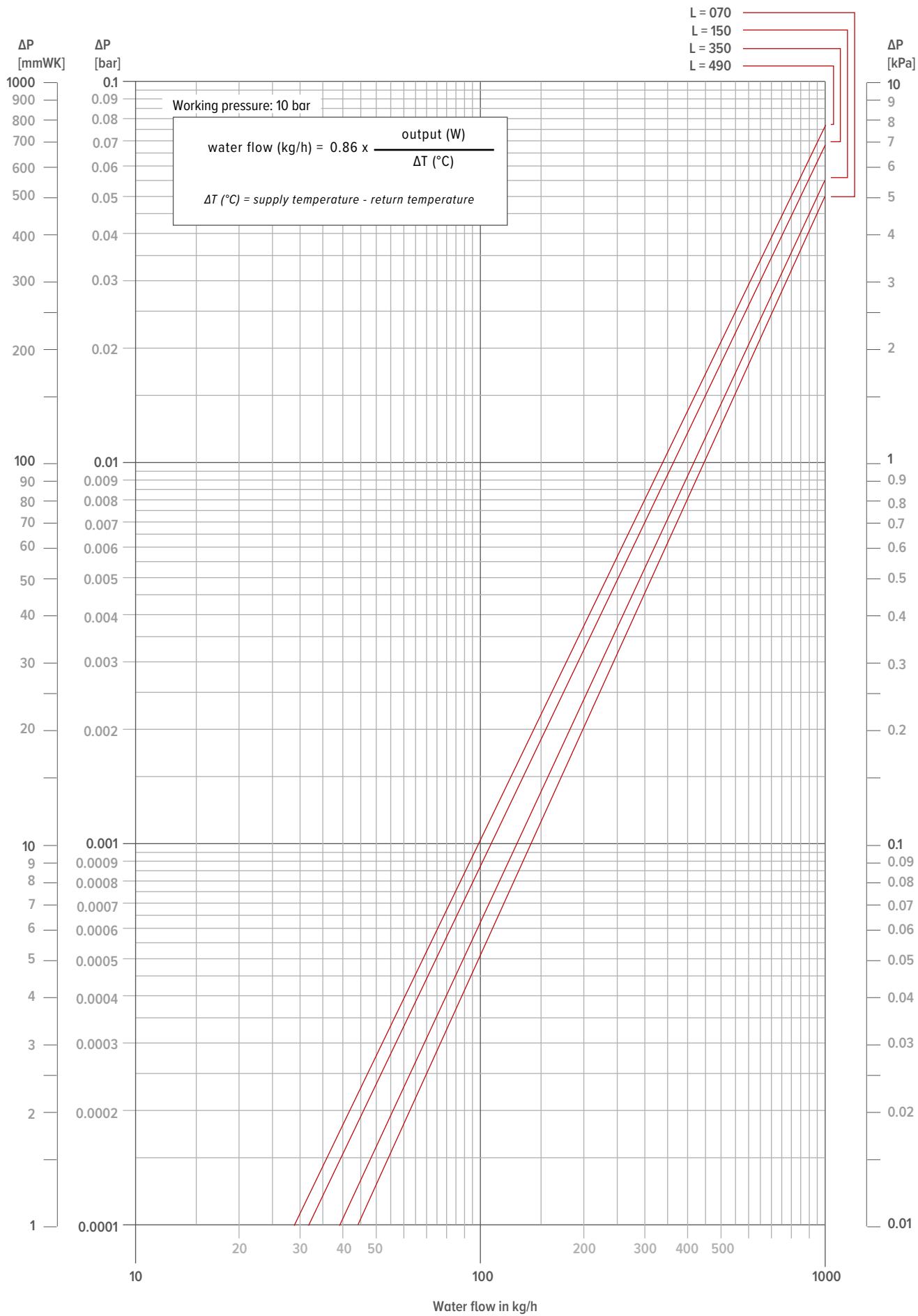
# RADIATORS WITH DBH UPGRADE SET

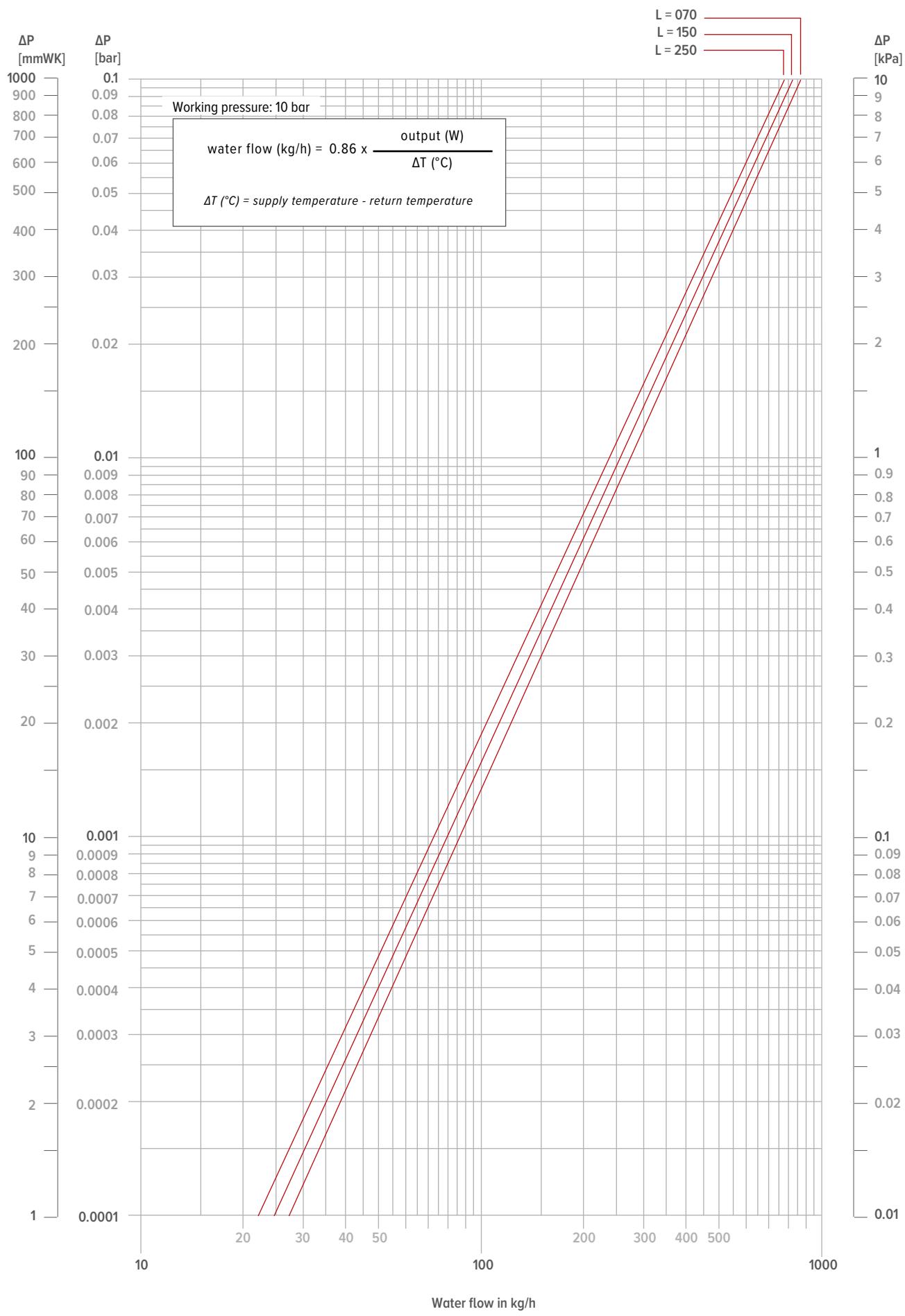
## GUIDELINE FOR LIMITING FLOW NOISE

| TUBE                            | outer Ø<br>mm | Wall<br>thick-<br>ness<br>mm | Max. water<br>speed<br>(EN10255)<br>m/s | water content<br>per metre<br>l | max. water<br>flow<br>kg/h | Maximum power at ΔT (° C) (T supply - T return) |                |                |               |               |               |               |  |
|---------------------------------|---------------|------------------------------|---|---------------------------------|----------------------------|---|----------------|----------------|---------------|---------------|---------------|---------------|--|
|                                 |               |                              |   |                                 |                            | ΔT 30<br>Watts                                  | ΔT 20<br>Watts | ΔT 10<br>Watts | ΔT 5<br>Watts | ΔT 4<br>Watts | ΔT 3<br>Watts | ΔT 2<br>Watts |  |
| <b>GALVANISED PIPE DIN 2440</b> |               |                              |   |                                 |                            |   |                |                |               |               |               |               |  |
| 3/8 DN10 OD                     | 17.2          | 2.35                         | 0.40                                    | 0.12                            | 173                        | 6028  | 4019           | 2009           | 1005          | 804           | 603           | 402           |  |
| 1/2 DN15 OD                     | 21.3          | 2.65                         | 0.40                                    | 0.20                            | 288                        | 10046   | 6698           | 3349           | 1674          | 1340          | 1005          | 670           |  |
| 3/4 DN20 OD                     | 26.9          | 2.65                         | 0.42                                    | 0.37                            | 559                        | 19515   | 13010          | 6505           | 3253          | 2602          | 1952          | 1301          |  |
| 1 DN25 OD                       | 33.7          | 3.25                         | 0.49                                    | 0.58                            | 1023                       | 35690   | 23793          | 11897          | 5948          | 4759          | 3569          | 2379          |  |
| 1 1/4 DN32 OD                   | 42.4          | 3.25                         | 0.60                                    | 1.01                            | 2182                       | 76101   | 50734          | 25367          | 12684         | 10147         | 7610          | 5073          |  |
| 1 1/2 DN40 OD                   | 48.3          | 3.25                         | 0.66                                    | 1.37                            | 3255                       | 113549  | 75700          | 37850          | 18925         | 15140         | 11355         | 7570          |  |
| 2 DN50 OD                       | 60.3          | 3.65                         | 0.80                                    | 2.21                            | 6365                       | 222025  | 148017         | 74008          | 37004         | 29603         | 22203         | 14802         |  |
| <b>PRECISION METAL TUBE</b>     |               |                              |   |                                 |                            |   |                |                |               |               |               |               |  |
| 10/1                            | 10            | 1.00                         | 0.40                                    | 0.05                            | 72                         | 2512  | 1674           | 837            | 419           | 335           | 251           | 167           |  |
| 12/1                            | 12            | 1.00                         | 0.40                                    | 0.08                            | 115                        | 4019  | 2679           | 1340           | 670           | 536           | 402           | 268           |  |
| 14/1                            | 14            | 1.00                         | 0.40                                    | 0.11                            | 158                        | 5526  | 3684           | 1842           | 921           | 737           | 553           | 368           |  |
| 15/1                            | 15            | 1.00                         | 0.40                                    | 0.13                            | 187                        | 6530  | 4353           | 2177           | 1088          | 871           | 653           | 435           |  |
| 16/1                            | 16            | 1.00                         | 0.40                                    | 0.15                            | 216                        | 7535  | 5023           | 2512           | 1256          | 1005          | 753           | 502           |  |
| 18/1                            | 18            | 1.00                         | 0.40                                    | 0.20                            | 288                        | 10046   | 6698           | 3349           | 1674          | 1340          | 1005          | 670           |  |
| 22/1                            | 22            | 1.00                         | 0.40                                    | 0.31                            | 446                        | 15572   | 10381          | 5191           | 2595          | 2076          | 1557          | 1038          |  |
| 28/1                            | 28            | 1.00                         | 0.47                                    | 0.53                            | 904                        | 31522   | 21014          | 10507          | 5254          | 4203          | 3152          | 2101          |  |
| <b>RPE/ALU</b>                  |               |                              |   |                                 |                            |   |                |                |               |               |               |               |  |
| 12/2                            | 12            | 2.00                         | 0.40                                    | 0.05                            | 72                         | 2512  | 1674           | 837            | 419           | 335           | 251           | 167           |  |
| 14/2                            | 14            | 2.00                         | 0.40                                    | 0.08                            | 115                        | 4019  | 2679           | 1340           | 670           | 536           | 402           | 268           |  |
| 16/1.5                          | 16            | 1.50                         | 0.40                                    | 0.13                            | 187                        | 6530  | 4353           | 2177           | 1088          | 871           | 653           | 435           |  |
| 16/2                            | 16            | 2.00                         | 0.40                                    | 0.11                            | 158                        | 5526  | 3684           | 1842           | 921           | 737           | 553           | 368           |  |
| 17/2                            | 17            | 2.00                         | 0.40                                    | 0.13                            | 187                        | 6530  | 4353           | 2177           | 1088          | 871           | 653           | 435           |  |
| 18/2                            | 18            | 2.00                         | 0.40                                    | 0.15                            | 216                        | 7535  | 5023           | 2512           | 1256          | 1005          | 753           | 502           |  |
| 20/2                            | 20            | 2.00                         | 0.40                                    | 0.20                            | 288                        | 10046   | 6698           | 3349           | 1674          | 1340          | 1005          | 670           |  |
| 26/3                            | 26            | 3.00                         | 0.40                                    | 0.31                            | 446                        | 15572   | 10381          | 5191           | 2595          | 2076          | 1557          | 1038          |  |
| 32/3                            | 32            | 3.00                         | 0.47                                    | 0.53                            | 904                        | 31522   | 21014          | 10507          | 5254          | 4203          | 3152          | 2101          |  |
| 40/3.5                          | 40            | 3.50                         | 0.56                                    | 0.86                            | 1726                       | 60220   | 40147          | 20073          | 10037         | 8029          | 6022          | 4015          |  |
| 50/4.25                         | 50            | 4.25                         | 0.66                                    | 1.35                            | 3206                       | 111824  | 74549          | 37275          | 18637         | 14910         | 11182         | 7455          |  |
| 63/5                            | 63            | 5.00                         | 0.80                                    | 2.21                            | 6346                       | 221359  | 147573         | 73786          | 36893         | 29515         | 22136         | 14757         |  |



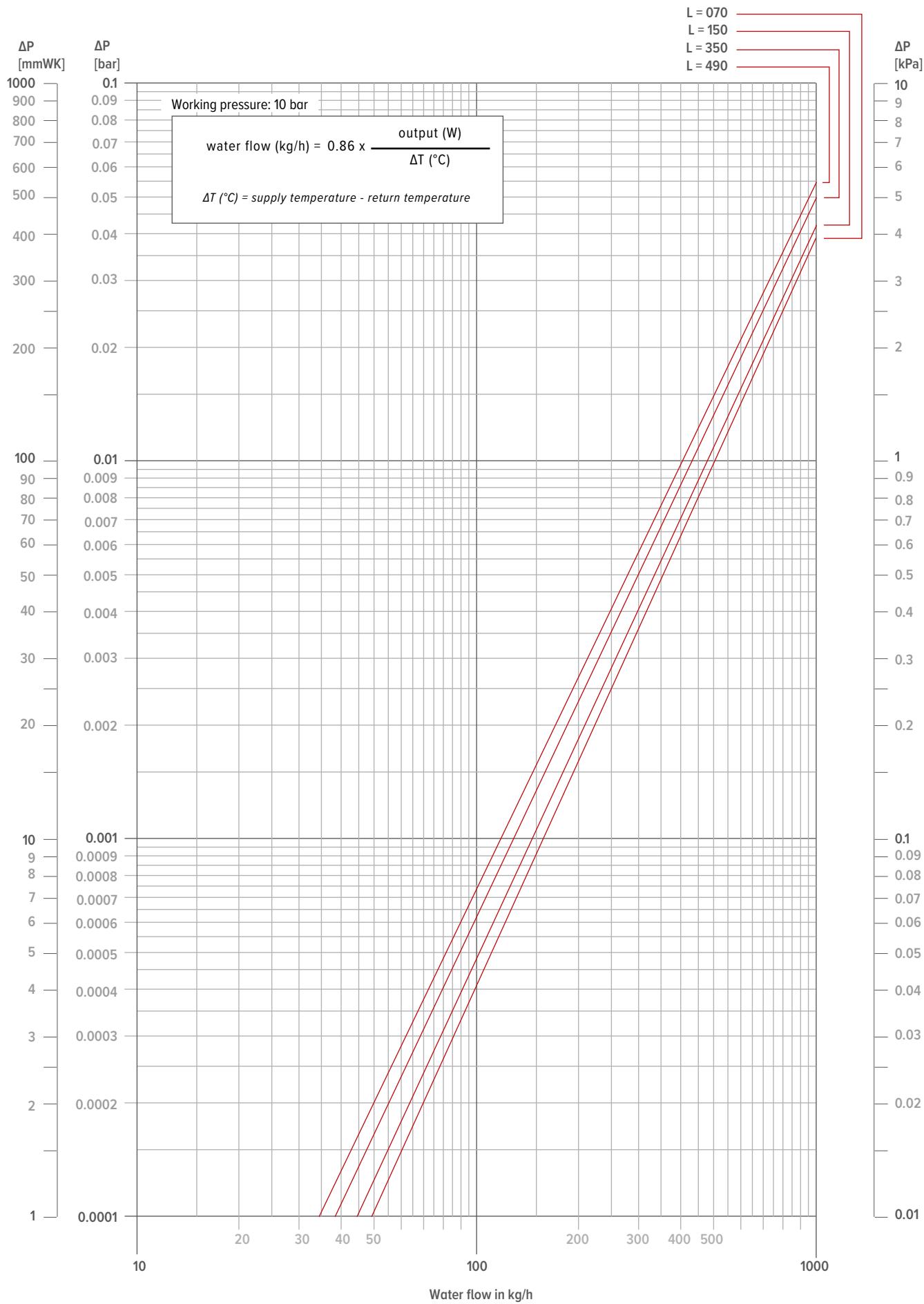


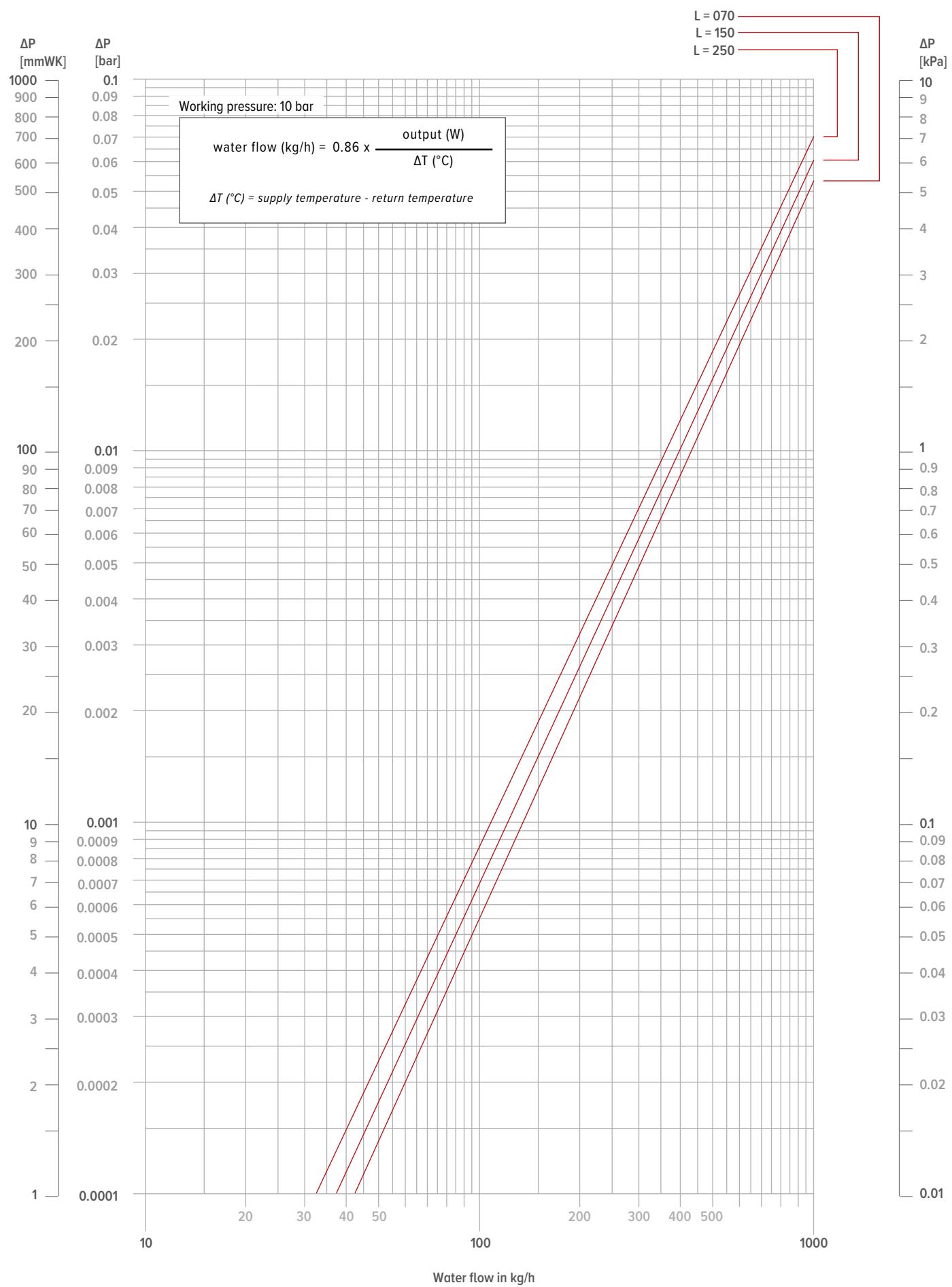




# LOW-H<sub>2</sub>O

# PRESSURE DROP TYPE 20









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