

# Technický list

Split, Split IWT

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**THERMA**





| Tepelné čerpadlo - venkovní jednotka     |                       |              |        | HU041MR.U20             | HU061MR.U20 | HU051MR.U44     | HU071MR.U44    | HU091MR.U44 | HU123MA.U33 | HU143MA.U33     |  |
|------------------------------------------|-----------------------|--------------|--------|-------------------------|-------------|-----------------|----------------|-------------|-------------|-----------------|--|
| Pracovní rozsah                          | Chlazení              | Min.-Max.    | °C     | 5 - 48                  |             |                 |                |             |             | 5 - 48          |  |
|                                          | Topení                |              | °C     | -20 - 35                |             | -25 - 35        |                |             |             | -25 - 35        |  |
| Napojení vnitřní jednotky                | Vstup                 | plyn         | palec  | 1/2                     |             | 5/8             |                |             |             | 5/8             |  |
|                                          | Výstup                | kapalina     | palec  | 1/4                     |             | 3/8             |                |             |             | 3/8             |  |
|                                          | Vzdálenost            | jmen. / max. | m      | 5 / 30                  |             | 5 / 50          |                |             |             | 7.5 / 50        |  |
|                                          | Převýšení             | max.         | m      | 30                      |             | 30              |                |             |             | 30              |  |
| Technická specifikace (chladivový okruh) |                       |              |        |                         |             |                 |                |             |             |                 |  |
| Kompresor                                | Model                 |              | typ    | DKT208MAB / Twin Rotary |             |                 | RJB036MAA / R1 |             | RJA036MAA / |                 |  |
|                                          | Typ                   |              |        |                         |             |                 | R32            |             | R410a       |                 |  |
|                                          | GWP                   |              |        |                         |             |                 | 675            |             | 2 088       |                 |  |
| Chladivo                                 | Náplň                 |              | g      | 1 100                   |             | 1 500           |                |             |             | 2 500           |  |
|                                          | t-CO <sub>2</sub> eq. |              |        | 0.743                   |             | 1,013           |                |             |             | 5 219           |  |
|                                          | Přednaplněno pro      |              | m      | 10                      |             | 10              |                |             |             | 7.5             |  |
|                                          | Doplnění              |              | g/m    | 20                      |             | 30              |                |             |             | 40              |  |
| Ventilátor                               | Průtok vzduchu        | Jmenovitý    | m³/min | 50                      |             | 60 x 1          |                |             |             | 55 x 2          |  |
| Technická specifikace                    |                       |              |        |                         |             |                 |                |             |             |                 |  |
| Hladina akustického výkonu               |                       | Jmenovitý    | dB(A)  | 57                      | 58          | 60              |                |             | 63          | 64              |  |
|                                          |                       | Tichý režim  |        | 56                      | 57          | 58              |                |             | 61          | 62              |  |
| Rozměry                                  |                       | š x v x d    | mm     | 870 x 650 x 330         |             | 950 x 834 x 330 |                |             |             | 1 140 X 1 462 X |  |
| Hmotnost                                 |                       |              | kg     | 44.7                    |             | 60              |                |             |             | 85.4            |  |



| Tepelné čerpadlo - vnitřní jednotka              |                          |               |          | HN091MR.NK5                 | HN1636M.NK5               | HN0913T.NK0               | HN0613M.NK5      | HN0613T.NK0               |   |
|--------------------------------------------------|--------------------------|---------------|----------|-----------------------------|---------------------------|---------------------------|------------------|---------------------------|---|
| Vhodné pro venkovní jednotky                     |                          |               |          | HU051MR, HU071MR, HU091MR   | HU123MA, HU143MA, HU163MA | HU051MR, HU071MR, HU091MR | HU041MR, HU061MR |                           |   |
| Pracovní rozsah                                  | Chlazení                 | Min.-Max.     | °C       | 5 - 27                      |                           |                           |                  |                           |   |
|                                                  | Topení                   |               | °C       | 15 - 65                     | 15 - 57                   | 15 - 65                   | 15 - 55          |                           |   |
|                                                  | TV                       |               | °C       | 15 - 80                     |                           |                           |                  |                           |   |
| Oběhové čerpadlo topného systému                 | Model                    |               | -        | Grundfos UPM3K 20-75 CHBL   |                           | Grundfos UPM3K 20-75 CHBL |                  | Grundfos UPM3K 20-75 CHBL |   |
|                                                  | Řízení výkonu            |               | -        | proměnlivý výkon 10% - 100% |                           |                           |                  |                           |   |
|                                                  | Příkon                   | Min. / jmen.  | W        | 3 - 60                      | 140                       | 3 - 60                    | 3 - 60           |                           |   |
| Expanzní nádoba                                  | Objem                    | Max.          | l/min.   | 8                           |                           |                           |                  |                           |   |
|                                                  | Tlak vody                | Max.          | bar      | 3                           |                           |                           |                  |                           |   |
|                                                  |                          | Přednapl.     | bar      | 1                           |                           |                           |                  |                           |   |
| Průtokoměr                                       | Typ                      |               | -        | Vortex - SIKA VVX20         |                           |                           |                  |                           |   |
|                                                  | Měřicí rozsah            | min. - max.   | l/min.   | 5 - 80                      |                           |                           |                  |                           |   |
| Čidlo tlaku                                      | Měřicí rozsah            | min. - max.   | bar (G)  | 0 - 20                      |                           |                           |                  |                           |   |
|                                                  | Typ                      |               | -        | Sensata OFM (2HMP)          |                           |                           |                  |                           |   |
| Trojcestný ventil                                | Typ                      | TV            | -        | -                           | -                         | Sanhua QSF-A02M20         | -                | Sanhua QSF-A02M21         |   |
|                                                  | pohon / průt. koeficient | TV            | - / Kvs  | -                           | -                         | Dvoupolohový / 12 V       | -                | Dvoupolohový / 12 V       |   |
| Pojišťovací ventil                               | Tlakový limit            | horní         | bar      | 3                           |                           |                           |                  |                           |   |
| Napojení topného systému, venkovní jednotky a TV |                          | TS            | palec    | 1" / 1"                     |                           |                           |                  |                           |   |
|                                                  | Vstup / Výstup           | TV, cirkulace | palec    | -                           | -                         | 1" / 1" / 1"              | -                | 1" / 1" / 1"              |   |
| Napojení venkovní jednotky (chlادivo)            |                          | Plyn          | "        | 5/8                         |                           |                           |                  |                           | ½ |
|                                                  |                          | Kapalina      | "        | 3/8                         |                           |                           |                  |                           | ¾ |
| Zásobník TV                                      | Objem                    |               | l        | -                           | -                         | 200                       | -                | 200                       |   |
|                                                  | Materiál                 |               | -        | -                           | -                         | nerez. ocel DUPLEX 2205   | -                | nerez. ocel DUPLEX 2205   |   |
|                                                  | Tlak a Tepl. Ochrana     |               | MPa / °C | -                           | -                         | 10 / 85                   | -                | 10 / 85                   |   |
|                                                  | Izolace                  | PUR           | mm       | -                           | -                         | 50                        | -                | 50                        |   |
| Hladina akustického výkonu                       | Topení                   | Jmenovitý     | dB(A)    | 44                          |                           | 42                        | 42               | 42                        |   |
| Rozměry                                          |                          | š x v x d     | mm       | 490 x 850 x 315             |                           | 602 x 1 810 x 680         | 490 x 850 x 315  | 600 x 1 750 x 660         |   |
| Hmotnost                                         |                          |               | kg       | 37.6                        | 41                        | 118                       | 42,3             | 118                       |   |
| Bivalentní zdroj                                 | Počet patron             |               | ks       | 2                           | 3                         | 2                         | 2                | 2                         |   |
|                                                  | Kombinace výkonu         |               | kW       | 3 + 3                       | 2 + 2 + 2                 | 3                         | 1,5 + 1,5        | 3                         |   |
|                                                  | Chod                     |               | -        | Automatický                 |                           |                           |                  |                           |   |
|                                                  | Napájení                 |               | V, f, Hz | 220-240, 1, 50              | 380-415, 3, 50            | 220-240, 1, 50            | 220-240, 1, 50   |                           |   |
|                                                  | Jmenovitý proud          |               | A        | 20 / 8.7                    |                           | 13                        | 13               |                           |   |

◆ ZHUW046A0 [HU041MR U20]

| Outdoor Temperature<br>[°C DB] | Water flow rate 11.50 LPM |       |           |      |           |      |           |      |           |      |           |      |
|--------------------------------|---------------------------|-------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
|                                | LWT 30 °C                 |       | LWT 35 °C |      | LWT 40 °C |      | LWT 45 °C |      | LWT 50 °C |      | LWT 55 °C |      |
|                                | TC                        | COP   | TC        | COP  | TC        | COP  | TC        | COP  | TC        | COP  | TC        | COP  |
| -20                            | 4.00                      | 2.48  | 4.00      | 2.17 | 4.00      | 1.90 | 4.00      | 1.80 |           |      |           |      |
| -15                            | 4.00                      | 2.63  | 4.00      | 2.43 | 4.00      | 2.22 | 4.00      | 2.06 | 4.00      | 1.91 |           |      |
| -7                             | 4.00                      | 3.67  | 4.00      | 3.08 | 4.00      | 2.82 | 4.00      | 2.56 | 4.00      | 2.41 | 4.00      | 2.22 |
| -4                             | 4.00                      | 4.08  | 4.00      | 3.53 | 4.00      | 3.10 | 4.00      | 2.77 | 4.00      | 2.55 | 4.00      | 2.44 |
| -2                             | 4.00                      | 4.35  | 4.00      | 3.76 | 4.00      | 3.28 | 4.00      | 2.91 | 4.00      | 2.64 | 4.00      | 2.48 |
| 2                              | 4.00                      | 4.66  | 4.00      | 3.63 | 4.00      | 3.48 | 4.00      | 3.04 | 4.00      | 2.70 | 4.00      | 2.46 |
| 7                              | 4.00                      | 5.63  | 4.00      | 5.10 | 4.00      | 4.15 | 4.00      | 3.57 | 4.00      | 3.11 | 4.00      | 2.77 |
| 10                             | 4.00                      | 6.07  | 4.00      | 5.21 | 4.00      | 4.46 | 4.00      | 3.81 | 4.00      | 3.30 | 4.00      | 2.89 |
| 15                             | 4.00                      | 6.82  | 4.00      | 5.84 | 4.00      | 4.98 | 4.00      | 4.22 | 4.00      | 3.57 | 4.00      | 3.06 |
| 18                             | 4.00                      | 7.28  | 4.00      | 6.24 | 4.00      | 5.30 | 4.00      | 4.48 | 4.00      | 3.76 | 4.00      | 3.16 |
| 20                             | 4.00                      | 7.59  | 4.00      | 6.50 | 4.00      | 5.52 | 4.00      | 4.65 | 4.00      | 3.90 | 4.00      | 3.43 |
| 35                             | 4.00                      | 10.02 | 4.00      | 8.59 | 4.00      | 7.28 | 4.00      | 6.07 | 4.00      | 4.97 | 4.00      | 3.61 |

◆ ZHUW066A0 [HU061MR U20]

| Outdoor Temperature<br>[°C DB] | Water flow rate 17.25 LPM |      |           |      |           |      |           |      |           |      |           |      |
|--------------------------------|---------------------------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
|                                | LWT 30 °C                 |      | LWT 35 °C |      | LWT 40 °C |      | LWT 45 °C |      | LWT 50 °C |      | LWT 55 °C |      |
|                                | TC                        | COP  | TC        | COP  | TC        | COP  | TC        | COP  | TC        | COP  | TC        | COP  |
| -20                            | 4.92                      | 2.40 | 4.78      | 2.10 | 4.64      | 1.84 | 4.50      | 1.74 |           |      |           |      |
| -15                            | 5.56                      | 2.55 | 5.52      | 2.35 | 5.48      | 2.15 | 5.44      | 1.99 | 5.40      | 1.85 |           |      |
| -7                             | 6.00                      | 3.55 | 6.00      | 2.98 | 6.00      | 2.74 | 6.00      | 2.48 | 6.00      | 2.34 | 6.00      | 2.15 |
| -4                             | 6.00                      | 3.95 | 6.00      | 3.42 | 6.00      | 3.00 | 6.00      | 2.68 | 6.00      | 2.47 | 6.00      | 2.36 |
| -2                             | 6.00                      | 4.21 | 6.00      | 3.64 | 6.00      | 3.18 | 6.00      | 2.82 | 6.00      | 2.56 | 6.00      | 2.41 |
| 2                              | 6.00                      | 4.52 | 6.00      | 3.52 | 6.00      | 3.37 | 6.00      | 2.94 | 6.00      | 2.61 | 6.00      | 2.39 |
| 7                              | 6.00                      | 5.45 | 6.00      | 4.95 | 6.00      | 4.02 | 6.00      | 3.46 | 6.00      | 3.01 | 6.00      | 2.68 |
| 10                             | 6.00                      | 5.88 | 6.00      | 5.04 | 6.00      | 4.32 | 6.00      | 3.69 | 6.00      | 3.20 | 6.00      | 2.80 |
| 15                             | 6.00                      | 6.60 | 6.00      | 5.66 | 6.00      | 4.82 | 6.00      | 4.09 | 6.00      | 3.46 | 6.00      | 2.96 |
| 18                             | 6.00                      | 7.05 | 6.00      | 6.04 | 6.00      | 5.14 | 6.00      | 4.34 | 6.00      | 3.65 | 6.00      | 3.06 |
| 20                             | 6.00                      | 7.35 | 6.00      | 6.30 | 6.00      | 5.35 | 6.00      | 4.51 | 6.00      | 3.78 | 6.00      | 3.32 |
| 35                             | 6.00                      | 9.70 | 6.00      | 8.32 | 6.00      | 7.05 | 6.00      | 5.88 | 6.00      | 4.81 | 6.00      | 3.50 |

# Split 5 – 9, 12 – 16 kW

## ◆ ZHUW056A0 [HU051MR U44] + ZHNW206031I [HN0913T NK0]

| Outdoor Temperature<br>[°C DB] | Water flow rate 15.8 LPM |      |      |      |           |      |      |      | Water flow rate 9.9 LPM |      |      |      | Water flow rate 7.9 LPM |      |      |      |
|--------------------------------|--------------------------|------|------|------|-----------|------|------|------|-------------------------|------|------|------|-------------------------|------|------|------|
|                                | LWT 30 °C                |      |      |      | LWT 35 °C |      |      |      | LWT 40 °C               |      |      |      | LWT 45 °C               |      |      |      |
|                                | TC                       | COP  | TC   | COP  | TC        | COP  | TC   | COP  | TC                      | COP  | TC   | COP  | TC                      | COP  | TC   | COP  |
| -25                            | 4.02                     | 1.96 | 3.90 | 1.84 | 3.78      | 1.72 | 3.66 | 1.60 |                         |      |      |      |                         |      |      |      |
| -20                            | 4.64                     | 2.59 | 4.51 | 2.07 | 4.38      | 1.90 | 4.26 | 1.74 | 4.13                    | 1.57 |      |      |                         |      |      |      |
| -15                            | 5.26                     | 2.51 | 5.12 | 2.30 | 4.99      | 2.09 | 4.85 | 1.88 | 4.72                    | 1.66 | 4.58 | 1.45 |                         |      |      |      |
| -7                             | 5.50                     | 2.88 | 5.50 | 2.70 | 5.50      | 2.53 | 5.50 | 2.35 | 5.50                    | 2.18 | 5.50 | 2.00 | 5.50                    | 1.83 |      |      |
| -4                             | 5.50                     | 3.18 | 5.50 | 2.97 | 5.50      | 2.75 | 5.50 | 2.53 | 5.50                    | 2.31 | 5.50 | 2.10 | 5.50                    | 1.88 |      |      |
| -2                             | 5.50                     | 3.41 | 5.50 | 3.14 | 5.50      | 2.88 | 5.50 | 2.61 | 5.50                    | 2.34 | 5.50 | 2.08 | 5.50                    | 1.81 |      |      |
| 2                              | 5.50                     | 3.79 | 5.50 | 3.50 | 5.50      | 3.21 | 5.50 | 2.93 | 5.50                    | 2.64 | 5.50 | 2.36 | 5.50                    | 2.07 | 5.50 | 1.79 |
| 7                              | 5.50                     | 5.37 | 5.50 | 4.90 | 5.50      | 4.43 | 5.50 | 3.97 | 5.50                    | 3.50 | 5.50 | 3.03 | 5.50                    | 2.57 | 5.50 | 2.10 |
| 10                             | 5.50                     | 5.84 | 5.50 | 5.34 | 5.50      | 4.83 | 5.50 | 4.32 | 5.50                    | 3.81 | 5.50 | 3.30 | 5.50                    | 2.79 | 5.50 | 2.29 |
| 15                             | 5.50                     | 6.64 | 5.50 | 6.06 | 5.50      | 5.48 | 5.50 | 4.91 | 5.50                    | 4.33 | 5.50 | 3.75 | 5.50                    | 3.17 | 5.50 | 2.60 |
| 18                             | 5.50                     | 7.11 | 5.50 | 6.50 | 5.50      | 5.88 | 5.50 | 5.26 | 5.50                    | 4.64 | 5.50 | 4.02 | 5.50                    | 3.40 | 5.50 | 2.78 |
| 20                             | 5.50                     | 7.43 | 5.50 | 6.79 | 5.50      | 6.14 | 5.50 | 5.49 | 5.50                    | 4.85 | 5.50 | 4.20 | 5.50                    | 3.55 | 5.50 | 2.91 |
| 35                             | 5.50                     | 9.81 | 5.50 | 8.96 | 5.50      | 8.11 | 5.50 | 7.25 | 5.50                    | 6.40 | 5.50 | 5.55 | 5.50                    | 4.69 | 5.50 | 3.84 |

## ◆ ZHUW076A0 [HU071MR U44] + ZHNW206031I [HN0913T NK0]

| Outdoor Temperature<br>[°C DB] | Water flow rate 20.1 LPM |      |      |      |           |      |      |      | Water flow rate 12.6 LPM |      |      |      | Water flow rate 10.0 LPM |      |      |      |
|--------------------------------|--------------------------|------|------|------|-----------|------|------|------|--------------------------|------|------|------|--------------------------|------|------|------|
|                                | LWT 30 °C                |      |      |      | LWT 35 °C |      |      |      | LWT 40 °C                |      |      |      | LWT 45 °C                |      |      |      |
|                                | TC                       | COP  | TC   | COP  | TC        | COP  | TC   | COP  | TC                       | COP  | TC   | COP  | TC                       | COP  | TC   | COP  |
| -25                            | 5.00                     | 1.95 | 4.85 | 1.78 | 4.71      | 1.62 | 4.56 | 1.45 |                          |      |      |      |                          |      |      |      |
| -20                            | 5.58                     | 2.52 | 5.43 | 2.02 | 5.27      | 1.84 | 5.11 | 1.66 | 4.95                     | 1.49 |      |      |                          |      |      |      |
| -15                            | 6.17                     | 2.38 | 6.00 | 2.25 | 5.83      | 2.06 | 5.66 | 1.88 | 5.49                     | 1.69 | 5.32 | 1.50 |                          |      |      |      |
| -7                             | 7.00                     | 2.76 | 7.00 | 2.72 | 7.00      | 2.44 | 7.00 | 2.28 | 7.00                     | 2.11 | 7.00 | 2.06 | 6.49                     | 1.79 |      |      |
| -4                             | 7.00                     | 3.07 | 7.00 | 2.87 | 7.00      | 2.66 | 7.00 | 2.45 | 7.00                     | 2.24 | 7.00 | 2.08 | 7.00                     | 1.83 |      |      |
| -2                             | 7.00                     | 3.27 | 7.00 | 3.04 | 7.00      | 2.82 | 7.00 | 2.59 | 7.00                     | 2.37 | 7.00 | 2.14 | 7.00                     | 2.06 |      |      |
| 2                              | 7.00                     | 3.65 | 7.00 | 3.40 | 7.00      | 3.15 | 7.00 | 2.90 | 7.00                     | 2.66 | 7.00 | 2.41 | 7.00                     | 2.16 | 7.00 | 1.91 |
| 7                              | 7.00                     | 5.35 | 7.00 | 4.90 | 7.00      | 4.45 | 7.00 | 4.00 | 7.00                     | 3.55 | 7.00 | 3.10 | 7.00                     | 2.65 | 7.00 | 2.20 |
| 10                             | 7.00                     | 5.77 | 7.00 | 5.28 | 7.00      | 4.80 | 7.00 | 4.31 | 7.00                     | 3.83 | 7.00 | 3.34 | 7.00                     | 2.86 | 7.00 | 2.37 |
| 15                             | 7.00                     | 6.46 | 7.00 | 5.92 | 7.00      | 5.37 | 7.00 | 4.59 | 7.00                     | 3.97 | 7.00 | 3.74 | 7.00                     | 3.20 | 7.00 | 2.66 |
| 18                             | 7.00                     | 6.88 | 7.00 | 6.30 | 7.00      | 5.72 | 7.00 | 4.78 | 7.00                     | 4.17 | 7.00 | 3.99 | 7.00                     | 3.41 | 7.00 | 2.83 |
| 20                             | 7.00                     | 7.16 | 7.00 | 6.55 | 7.00      | 5.95 | 7.00 | 4.90 | 7.00                     | 4.32 | 7.00 | 4.15 | 7.00                     | 3.54 | 7.00 | 2.94 |
| 35                             | 7.00                     | 8.86 | 7.00 | 7.79 | 7.00      | 6.57 | 7.00 | 5.82 | 7.00                     | 5.32 | 7.00 | 4.92 | 7.00                     | 4.58 | 7.00 | 3.80 |

## ◆ ZHUW096A0 [HU091MR U44] + ZHNW206031I [HN0913T NK0]

| Outdoor Temperature<br>[°C DB] | Water flow rate 25.9 LPM |      |      |      |           |      |      |      | Water flow rate 16.2 LPM |      |      |      | Water flow rate 12.9 LPM |      |      |      |
|--------------------------------|--------------------------|------|------|------|-----------|------|------|------|--------------------------|------|------|------|--------------------------|------|------|------|
|                                | LWT 30 °C                |      |      |      | LWT 35 °C |      |      |      | LWT 40 °C                |      |      |      | LWT 45 °C                |      |      |      |
|                                | TC                       | COP  | TC   | COP  | TC        | COP  | TC   | COP  | TC                       | COP  | TC   | COP  | TC                       | COP  | TC   | COP  |
| -25                            | 6.40                     | 1.85 | 6.20 | 1.70 | 6.00      | 1.55 | 5.80 | 1.40 |                          |      |      |      |                          |      |      |      |
| -20                            | 7.23                     | 2.45 | 7.00 | 1.96 | 6.77      | 1.80 | 6.54 | 1.64 | 6.31                     | 1.48 |      |      |                          |      |      |      |
| -15                            | 8.06                     | 2.39 | 7.80 | 2.22 | 7.54      | 2.05 | 7.28 | 1.89 | 7.02                     | 1.72 | 7.10 | 1.55 |                          |      |      |      |
| -7                             | 9.00                     | 2.75 | 9.00 | 2.71 | 9.00      | 2.35 | 9.00 | 2.20 | 9.00                     | 2.05 | 9.00 | 1.90 | 8.60                     | 1.75 |      |      |
| -4                             | 9.00                     | 2.98 | 9.00 | 2.78 | 9.00      | 2.58 | 9.00 | 2.38 | 9.00                     | 2.18 | 9.00 | 1.98 | 9.00                     | 1.78 |      |      |
| -2                             | 9.00                     | 3.16 | 9.00 | 2.97 | 9.00      | 2.78 | 9.00 | 2.59 | 9.00                     | 2.40 | 9.00 | 2.21 | 9.00                     | 2.02 |      |      |
| 2                              | 9.00                     | 3.57 | 9.00 | 3.35 | 9.00      | 3.13 | 9.00 | 2.91 | 9.00                     | 2.69 | 9.00 | 2.47 | 9.00                     | 2.25 | 9.00 | 2.04 |
| 7                              | 9.00                     | 5.04 | 9.00 | 4.65 | 9.00      | 4.26 | 9.00 | 3.87 | 9.00                     | 3.34 | 9.00 | 2.98 | 9.00                     | 2.61 | 9.00 | 2.30 |
| 10                             | 9.00                     | 5.39 | 9.00 | 4.97 | 9.00      | 4.55 | 9.00 | 4.09 | 9.00                     | 3.51 | 9.00 | 3.16 | 9.00                     | 2.79 | 9.00 | 2.46 |
| 15                             | 9.00                     | 5.97 | 9.00 | 5.50 | 9.00      | 5.04 | 9.00 | 4.35 | 9.00                     | 3.80 | 9.00 | 3.44 | 9.00                     | 3.07 | 9.00 | 2.72 |
| 18                             | 9.00                     | 6.32 | 9.00 | 5.83 | 9.00      | 5.33 | 9.00 | 4.50 | 9.00                     | 3.98 | 9.00 | 3.60 | 9.00                     | 3.23 | 9.00 | 2.88 |
| 20                             | 9.00                     | 6.55 | 9.00 | 6.04 | 9.00      | 5.53 | 9.00 | 4.60 | 9.00                     | 4.10 | 9.00 | 3.70 | 9.00                     | 3.35 | 9.00 | 2.99 |
| 35                             | 9.00                     | 8.29 | 9.00 | 7.64 | 9.00      | 6.50 | 9.00 | 5.35 | 9.00                     | 4.96 | 9.00 | 4.58 | 9.00                     | 4.19 | 7.95 | 3.78 |

## ◆ AHUW128A4 [HU123MA U33] + AHNW16806A4 [HN1636M NK5]

| Outdoor Temperature<br>[°C DB] | Water flow rate 34.50 LPM |       |           |       |           |       |           |      | Water flow rate 27.50 LPM |
|--------------------------------|---------------------------|-------|-----------|-------|-----------|-------|-----------|------|---------------------------|
|                                | LWT 30 °C                 |       | LWT 35 °C |       | LWT 40 °C |       | LWT 45 °C |      |                           |
|                                | TC                        | COP   | TC        | COP   | TC        | COP   | TC        | COP  |                           |
| -25                            | 11.25                     | 2.34  | 10.95     | 2.21  | 10.22     | 2.05  | 9.85      | 1.88 | -                         |
| -20                            | 12.00                     | 3.20  | 11.32     | 3.01  | 10.90     | 2.85  | 10.32     | 2.33 | -                         |
| -15                            | 12.00                     | 3.60  | 11.66     | 3.27  | 11.45     | 2.98  | 11.16     | 2.48 | 11.13                     |
| -7                             | 12.00                     | 3.99  | 12.00     | 3.52  | 12.00     | 3.10  | 12.00     | 2.64 | 12.00                     |
| -4                             | 12.00                     | 4.06  | 12.00     | 3.56  | 12.00     | 3.13  | 12.00     | 2.70 | 12.00                     |
| 2                              | 12.00                     | 4.54  | 12.00     | 3.85  | 12.00     | 3.34  | 12.00     | 2.87 | 12.00                     |
| 7                              | 12.00                     | 6.20  | 12.00     | 4.55  | 12.00     | 4.59  | 12.00     | 3.55 | 12.00                     |
| 10                             | 12.00                     | 7.24  | 12.00     | 5.41  | 12.00     | 4.41  | 12.00     | 3.95 | 12.00                     |
| 15                             | 12.00                     | 9.58  | 12.00     | 7.91  | 12.00     | 5.74  | 12.00     | 4.89 | 12.00                     |
| 18                             | 12.00                     | 10.48 | 12.00     | 8.41  | 12.00     | 6.90  | 12.00     | 6.05 | 12.00                     |
| 20                             | 12.00                     | 11.79 | 12.00     | 9.05  | 12.00     | 7.81  | 12.00     | 6.65 | 12.00                     |
| 35                             | 12.00                     | 14.16 | 12.00     | 12.00 | 12.00     | 10.55 | 12.00     | 9.13 | 12.00                     |

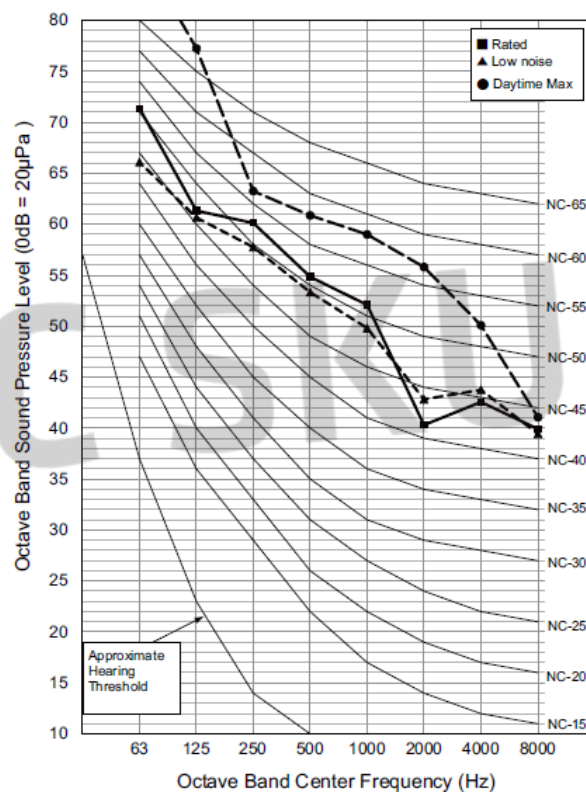
## ◆ AHUW148A4 [HU143MA U33] + AHNW16806A4 [HN1636M NK5]

| Outdoor Temperature<br>[°C DB] | Water flow rate 40.25 LPM |       |           |       |           |      |           |      | Water flow rate 32.50 LPM |
|--------------------------------|---------------------------|-------|-----------|-------|-----------|------|-----------|------|---------------------------|
|                                | LWT 30 °C                 |       | LWT 35 °C |       | LWT 40 °C |      | LWT 45 °C |      |                           |
|                                | TC                        | COP   | TC        | COP   | TC        | COP  | TC        | COP  |                           |
| -25                            | 11.25                     | 2.34  | 11.17     | 2.02  | 10.79     | 1.91 | 10.32     | 1.78 | -                         |
| -20                            | 12.11                     | 3.14  | 11.98     | 2.71  | 11.54     | 2.45 | 10.90     | 2.11 | -                         |
| -15                            | 13.06                     | 3.45  | 12.99     | 3.01  | 12.77     | 3.43 | 12.27     | 2.71 | 12.42                     |
| -7                             | 14.00                     | 3.75  | 14.00     | 3.30  | 14.00     | 2.93 | 13.64     | 2.68 | 13.09                     |
| -4                             | 14.00                     | 3.86  | 14.00     | 3.36  | 14.00     | 2.96 | 14.00     | 2.63 | 14.00                     |
| 2                              | 14.00                     | 4.18  | 14.00     | 3.78  | 14.00     | 3.12 | 14.00     | 2.74 | 14.00                     |
| 7                              | 14.00                     | 5.94  | 14.00     | 4.41  | 14.00     | 4.44 | 14.00     | 3.46 | 14.00                     |
| 10                             | 14.00                     | 6.59  | 14.00     | 5.42  | 14.00     | 4.48 | 14.00     | 3.98 | 14.00                     |
| 15                             | 14.00                     | 7.71  | 14.00     | 6.37  | 14.00     | 5.73 | 14.00     | 4.88 | 14.00                     |
| 18                             | 14.00                     | 9.16  | 14.00     | 7.60  | 14.00     | 6.20 | 14.00     | 5.36 | 14.00                     |
| 20                             | 14.00                     | 9.53  | 14.00     | 7.92  | 14.00     | 6.45 | 14.00     | 5.44 | 14.00                     |
| 35                             | 14.00                     | 13.17 | 14.00     | 11.16 | 14.00     | 9.65 | 14.00     | 8.21 | 14.00                     |

## ◆ AHUW168A4 [HU163MA U33] + AHNW16806A4 [HN1636M NK5]

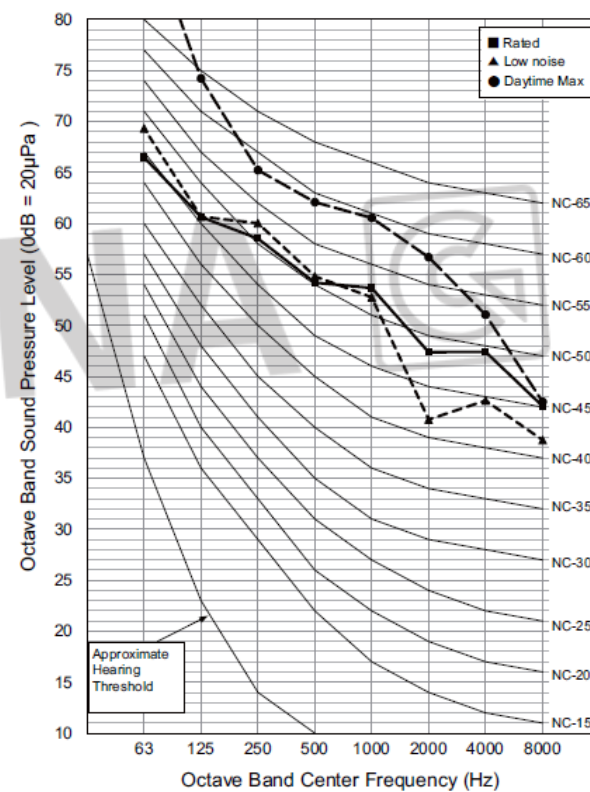
| Outdoor Temperature<br>[°C DB] | Water flow rate 46.00 LPM |       |           |       |           |      |           |      | Water flow rate 37.50 LPM |
|--------------------------------|---------------------------|-------|-----------|-------|-----------|------|-----------|------|---------------------------|
|                                | LWT 30 °C                 |       | LWT 35 °C |       | LWT 40 °C |      | LWT 45 °C |      |                           |
|                                | TC                        | COP   | TC        | COP   | TC        | COP  | TC        | COP  |                           |
| -25                            | 12.27                     | 2.03  | 12.01     | 1.88  | 11.48     | 1.81 | 10.86     | 1.68 | -                         |
| -20                            | 13.11                     | 2.91  | 12.90     | 2.41  | 12.62     | 2.30 | 12.30     | 1.87 | -                         |
| -15                            | 13.73                     | 3.15  | 13.70     | 2.72  | 13.46     | 2.60 | 13.16     | 2.30 | 12.42                     |
| -7                             | 14.36                     | 3.38  | 14.50     | 3.02  | 14.30     | 2.85 | 14.01     | 2.40 | 13.40                     |
| -4                             | 15.20                     | 3.54  | 14.80     | 3.10  | 14.50     | 2.90 | 14.25     | 2.45 | 14.00                     |
| 2                              | 16.00                     | 3.87  | 16.00     | 3.38  | 16.00     | 2.99 | 16.00     | 2.64 | 16.00                     |
| 7                              | 16.00                     | 5.79  | 16.00     | 4.26  | 16.00     | 4.29 | 16.00     | 3.32 | 16.00                     |
| 10                             | 16.00                     | 6.33  | 16.00     | 5.20  | 16.00     | 4.24 | 16.00     | 3.79 | 16.00                     |
| 15                             | 16.00                     | 7.29  | 16.00     | 6.02  | 16.00     | 4.92 | 16.00     | 4.20 | 16.00                     |
| 18                             | 16.00                     | 7.90  | 16.00     | 6.55  | 16.00     | 5.37 | 16.00     | 4.71 | 16.00                     |
| 20                             | 16.00                     | 8.32  | 16.00     | 6.92  | 16.00     | 5.97 | 16.00     | 5.09 | 16.00                     |
| 35                             | 16.00                     | 11.90 | 16.00     | 10.09 | 16.00     | 8.87 | 16.00     | 7.67 | 16.00                     |

ZHUW046A0 [HU041MR U20]



| Octave Band [Hz] | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | Overall [dB(A)] |
|------------------|------|------|------|------|------|------|------|------|-----------------|
| Rated [dB]       | 71.4 | 61.3 | 60.1 | 54.8 | 52.1 | 40.3 | 42.6 | 39.9 | 57.0            |
| Low noise [dB]   | 66.1 | 60.6 | 57.8 | 53.5 | 49.8 | 42.8 | 43.8 | 39.4 | 56.0            |
| Daytime Max [dB] | 87.0 | 77.3 | 63.3 | 60.9 | 59.0 | 55.8 | 50.1 | 41.1 | 66.0            |

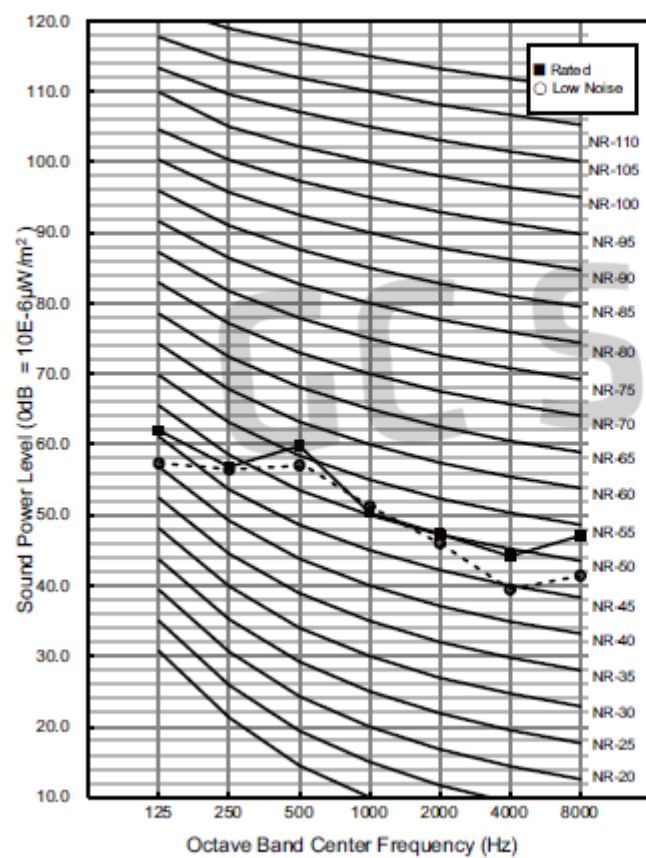
ZHUW066A0 [HU061MR U20]



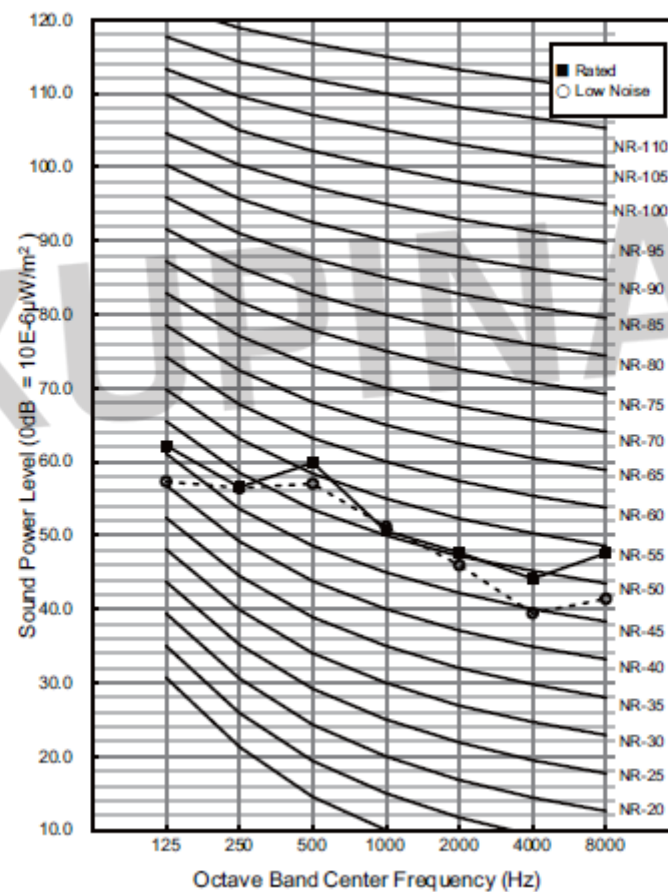
| Octave Band [Hz] | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | Overall [dB(A)] |
|------------------|------|------|------|------|------|------|------|------|-----------------|
| Rated [dB]       | 66.5 | 60.6 | 58.5 | 54.2 | 53.7 | 47.4 | 47.4 | 42.1 | 58.0            |
| Low noise [dB]   | 69.3 | 60.7 | 60.0 | 54.8 | 52.8 | 40.8 | 42.6 | 38.8 | 57.0            |
| Daytime Max [dB] | 90.0 | 74.2 | 65.2 | 62.1 | 60.5 | 56.7 | 51.1 | 42.5 | 67.0            |



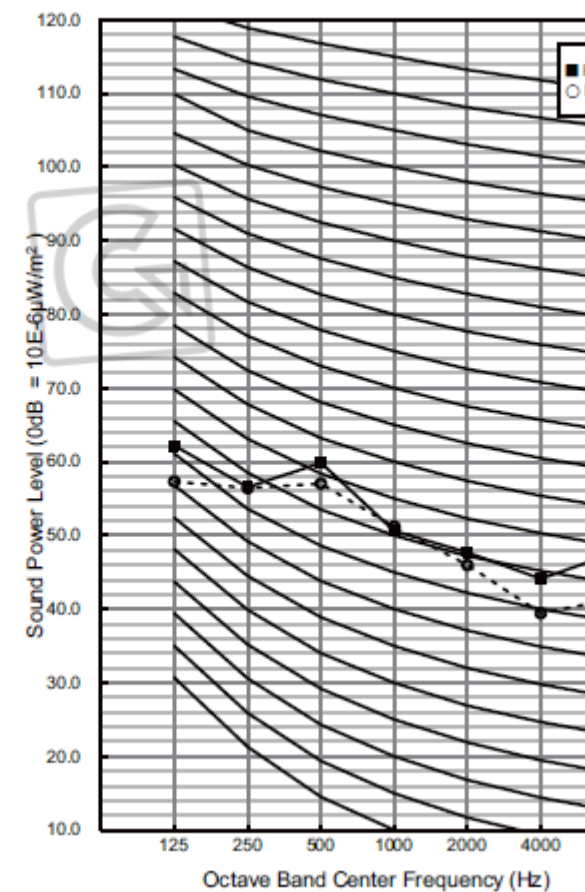
## ZHUW056A0 [HU051MR U44]



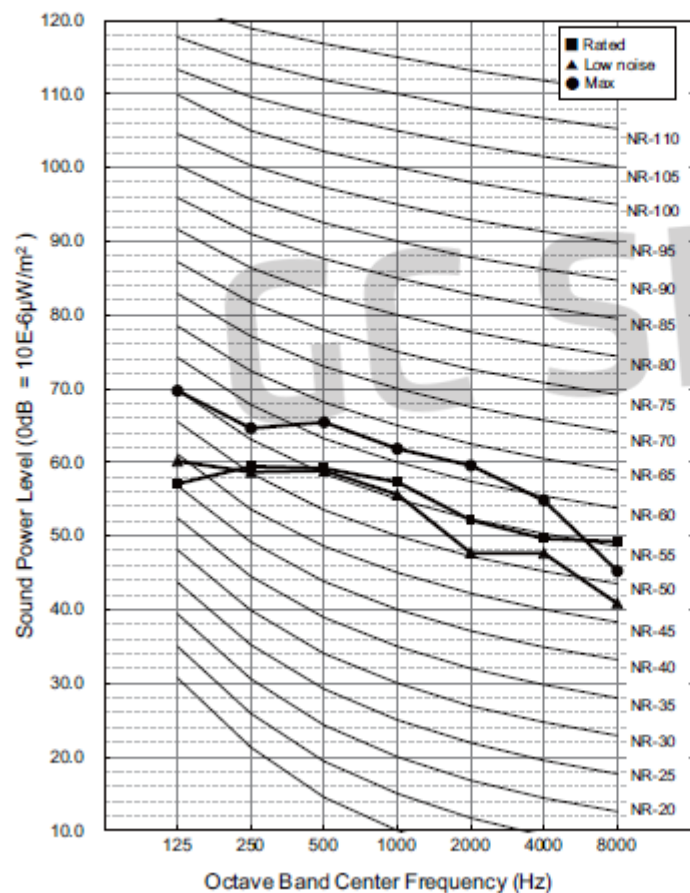
## ZHUW076A0 [HU071MR U44]



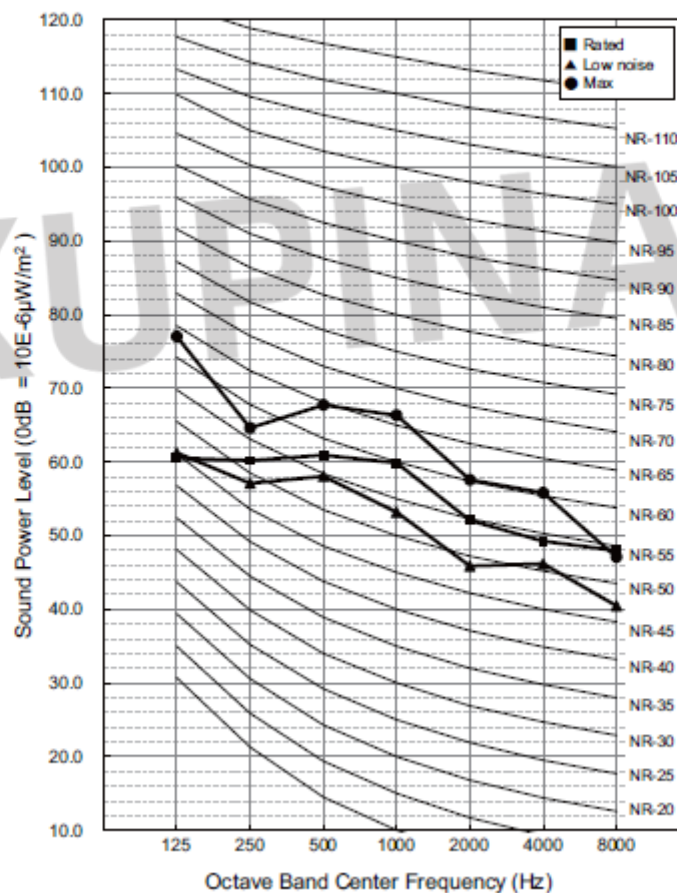
## ZHUW096A0 [HU091MR U44]



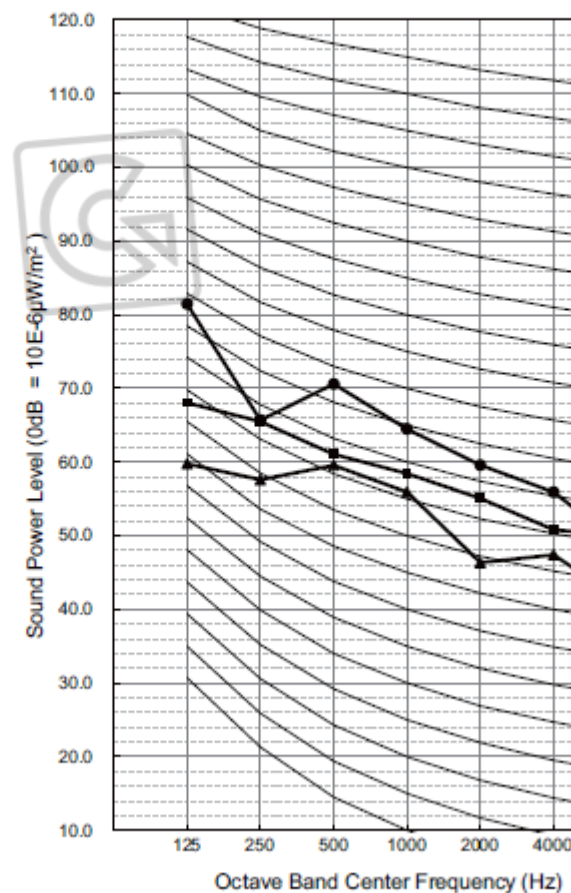
AHUW126A4 [HU121MA U33]  
AHUW128A4 [HU123MA U33]



AHUW146A4 [HU141MA U33]  
AHUW148A4 [HU143MA U33]



AHUW166A4 [HU161MA U33]  
AHUW168A4 [HU163MA U33]



## Příslušenství

| Umístění      | Popis   | Označení                         | Poznámka           | Výkon      | jedn. | Umístění |
|---------------|---------|----------------------------------|--------------------|------------|-------|----------|
| Příslušenství | Vnitřní | Kondenzátní vanička (IDU)        | PHDPB.ENCXLEU      | Split      | -     | -        |
| Příslušenství | Vnitřní | Sada pro řízení patроны zás. TUV | PHLTA.ENCXLEU      | Split 1f   | -     | -        |
| Příslušenství | Vnitřní | Sada pro řízení patроны zás. TUV | PHLTC.ENCXLEU      | Split 3f   | -     | -        |
| Příslušenství | Vnitřní | Sada pro solární ohřev           | PHLLA.ENCXLEU      | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Vnitřní prostové čidlo           | PQRSTA0.ENCXCOM    | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Dry Contact Jednoduchý           | PDRYCB500.ENCXCOM  | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Dry Contact pro Termostat        | PDRYCB320.ENCXCOM  | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Wi-Fi modem                      | PWFMDD200.ENCXLEU  | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Prodl.kabel - WiFi modem         | PWYREW000.ENCXLEU  | Split/Mono | 10    | m        |
| Příslušenství | Vnitřní | Teplotní čidlo - voda            | PHRSTA0.ENCXLEU    | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Měření energií                   | PENKTH000.ENCXLEU  | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Teplotní čidlo - směšovaný okruh | PRSTAT5K10.ENCXLEU | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | ModBUS RTU řízení kaskády        | PMBUSB00A.ENCXLEU  | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | PI485 (pro bránu ModBUS)         | PMNFP14A1.ENCXCOM  | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Prodl.kabel - RS3 ovladač        | PZCWRC1            | Split/Mono | 10    | m        |
| Příslušenství | Vnitřní | Kryt otvoru IDU                  | PDC-HK10.EWGBEEU   | Split      | -     | -        |
| Příslušenství | Vnitřní | Podružný ovladač                 | PREMTW101          | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Rozbočovací kabel pro ovladače   | PZCWRC2            | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | AC Ez Touch - řízení kaskády     | PACEZA000          | Split/Mono | -     | -        |
| Příslušenství | Vnitřní | Zónový ovladač (2 zóny)          | PZNVVB200          | Split/Mono | -     | -        |



## GC SKUPINA

- ❖ Specifikace jednotek Therma V o výkonu 12, 14 a 16 kW a napájení 230 V a Split Vysokoteplotní jsou k dispozici na vyžádání
- ❖ Bližší informace o podmínkách měření jsou k dispozici na vyžádání
- ❖ V tomto dokumentu uvedené hodnoty vychází z údajů uvedených ve firemní dokumentaci, zejména pak v Product Data Book (PDB). V případě odlišností uvedené v PDB
- ❖ Z důvodů častých inovací produktů, mohou být kterékoliv údaje a hodnoty bez dalšího změněny.