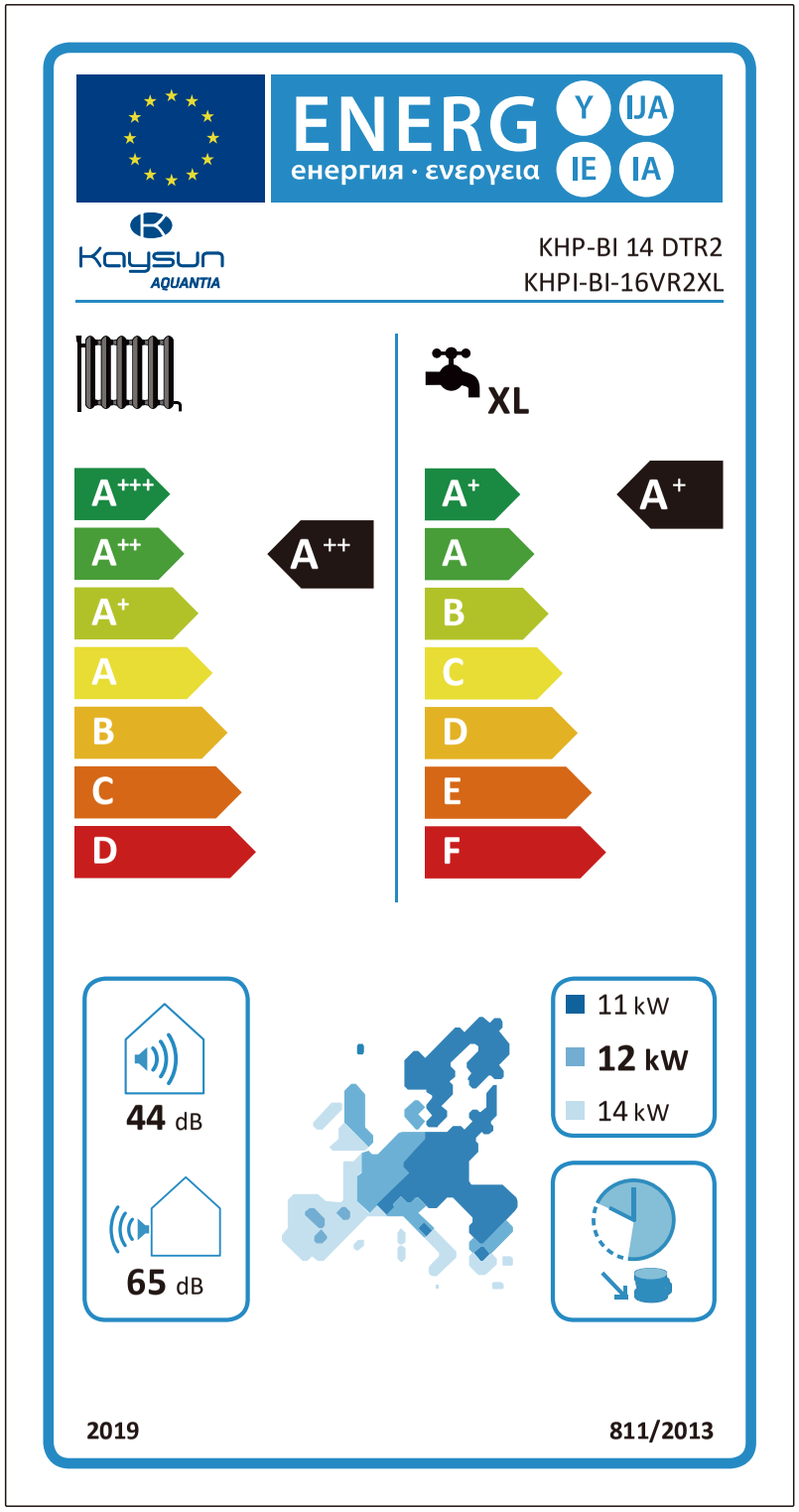
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KHP-BI 14 DTR2
KHPI-BI-16VR2XL
XL
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C
D
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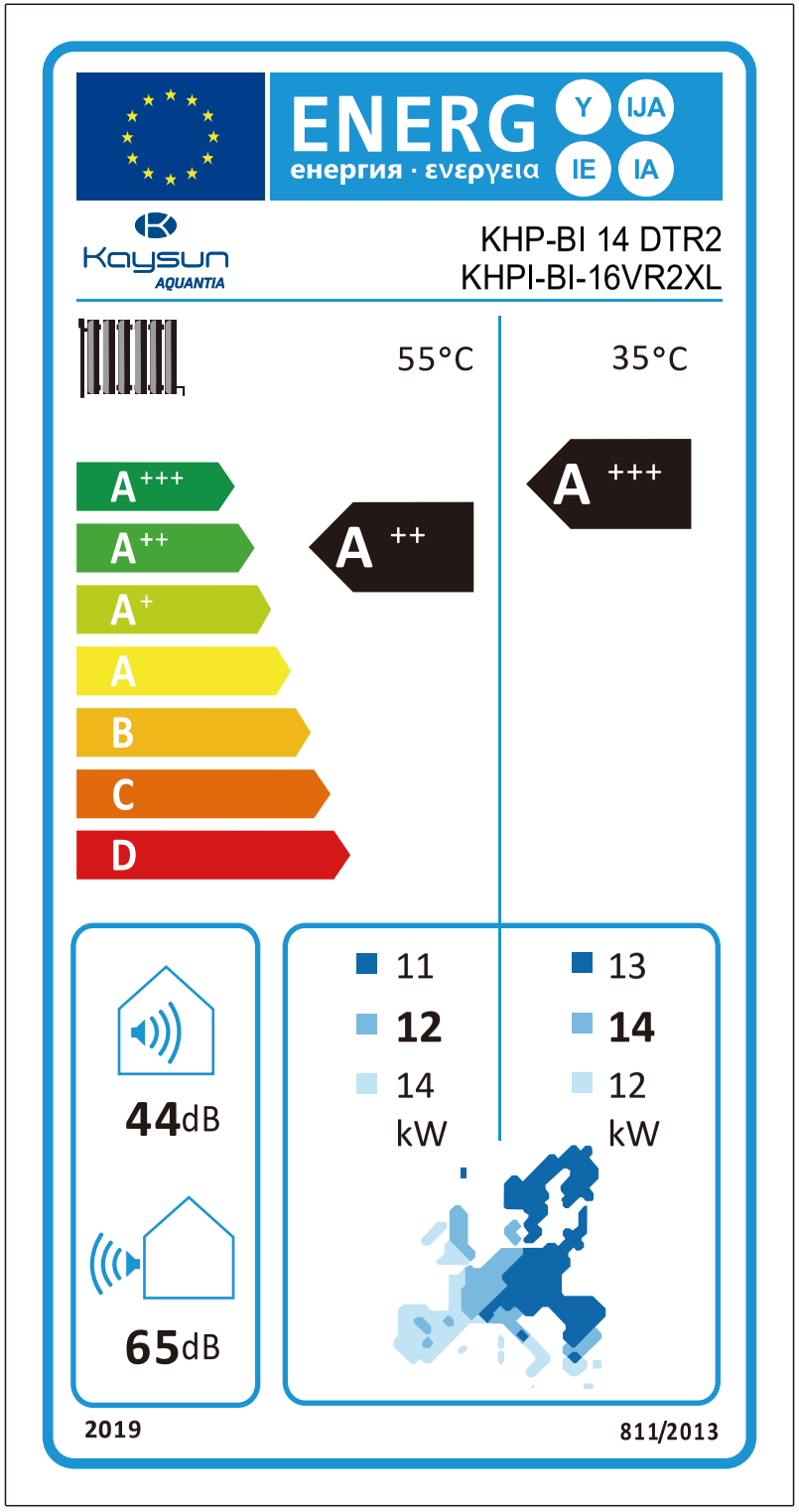
44 dB
65 dB
11 kW
12 kW
14 kW
2019
811/2013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44dB
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2019
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# Product fiche

**Energy labelling regulation: (EU)812/2013**

**Ecodesign regulation: (EU)814/2013**

| Heat pump combination heater | | Outdoor | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 | KHP-BI 12 DTR2 | KHP-BI 14 DVR2 | KHP-BI 14 DTR2 | KHP-BI 16 DVR2 | KHP-BI 16 DTR2 |
|---|---|---|---|---|---|---|---|---|---|
| | | Indoor | KHPI-BI-10VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B |
| Indoor unit sound power(*) | | dB | 40 | 42 | 42 | 44 | 44 | 44 | 44 |
| Outdoor unit sound power(*) | | dB | 60 | 64 | 64 | 65 | 65 | 68 | 68 |
| Water heating | Declared load profile | - | XL | XL | XL | XL | XL | XL | XL |
| | Energy efficiency class | - | A+ | A+ | A+ | A+ | A+ | A+ | A+ |
| Space heating | Energy efficiency class at 55℃ (High temp. app.) | - | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| Average climate | | | | | | | | | |
| Water heating | Water heating energy efficiency ($\eta_{wh}$) | [%] | 137 | 123 | 123 | 123 | 123 | 123 | 123 |
| | Annual electricity consumption (AEC) | [kWh] | 1218 | 1360 | 1360 | 1360 | 1360 | 1360 | 1360 |
| Space heating | $P_{rated}$ (declared heating capacity)@-10℃ | [kW] | 7.7 | 11.6 | 11.6 | 12.1 | 12.1 | 13.0 | 13.0 |
| | Seasonal space heating efficiency($\eta_s$) | [%] | 136.6 | 135.1 | 135.1 | 135.6 | 135.6 | 133.3 | 133.2 |
| | Annual energy consumption | [kWh] | 4539 | 6927 | 6928 | 7202 | 7203 | 7895 | 7896 |
| Off-peak operation function integrated in heat pump | | Y/N | Y | Y | Y | Y | Y | Y | Y |
| Colder climate | | | | | | | | | |
| Water heating | Water heating energy efficiency ($\eta_{wh}$) | [%] | 111 | 92 | 92 | 92 | 92 | 92 | 92 |
| | Annual energy consumption | [kWh] | 1508 | 1822 | 1822 | 1822 | 1822 | 1822 | 1822 |
| Space heating | $P_{rated}$ (declared heating capacity)@-22℃ | [kW] | 6.71 | 10.31 | 10.3 | 10.96 | 11 | 11.8 | 11.8 |
| | Seasonal space heating efficiency($\eta_s$) | [%] | 116.4 | 117.8 | 117.7 | 118.9 | 118.9 | 121.8 | 121.8 |
| | Annual energy consumption | [kWh] | 5540 | 8419 | 8420 | 8866 | 8867 | 9309 | 9310 |
| Warmer climate | | | | | | | | | |
| Water heating | Water heating energy efficiency ($\eta_{wh}$) | [%] | 171 | 153 | 153 | 153 | 153 | 153 | 153 |
| | Annual energy consumption | [kWh] | 977 | 1088 | 1088 | 1088 | 1088 | 1088 | 1088 |
| Space heating | $P_{rated}$ (declared heating capacity)@2℃ | [kW] | 8.63 | 12.5 | 12.5 | 13.7 | 13.7 | 13.8 | 13.8 |
| | Seasonal space heating efficiency($\eta_s$) | [%] | 180.3 | 174.0 | 173.8 | 176.5 | 176.4 | 176.1 | 175.9 |
| | Annual energy consumption | [kWh] | 2516 | 3776 | 3780 | 4088 | 4092 | 4112 | 4116 |
| Ecodesign technical data | | | | | | | | | |
| Product description | Air-to-water heat pump | Y/N | Y | Y | Y | Y | Y | Y | Y |
| | Water-to-water heat pump | Y/N | N | N | N | N | N | N | N |
| | Brine-to-water heat pump | Y/N | N | N | N | N | N | N | N |
| | Low-temperature heat pump | Y/N | N | N | N | N | N | N | N |
| | Equipped with a supplementary heater | Y/N | Y | Y | Y | Y | Y | Y | Y |
| | Heat pump combination heater | Y/N | Y | Y | Y | Y | Y | Y | Y |
| Air-to-water unit | Rated airflow (outdoor) | [$m^3$/h] | 4030 | 4060 | 4060 | 4060 | 4060 | 4650 | 4650 |
| Brine/water-to-water heat pump | Rated brine/water flow (outdoor H/E) | [$m^3$/h] | - | - | - | - | - | - | - |

| Heat pump combination heater | | Outdoor | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 | KHP-BI 12 DTR2 | KHP-BI 14 DVR2 | KHP-BI 14 DTR2 | KHP-BI 16 DVR2 | KHP-BI 16 DTR2 |
|---|---|---|---|---|---|---|---|---|---|
| | | Indoor | KHPI-BI-10VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B | KHPI-BI-16VR2XL B |
| Other | Capacity control | - | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | $P_{off}$ (Power consumption Off mode) | [kW] | 0.014 | 0.014 | 0.020 | 0.014 | 0.020 | 0.014 | 0.020 |
| | $P_{to}$ (Power consumption Thermostat off mode) | [kW] | 0.024 | 0.024 | 0.030 | 0.024 | 0.030 | 0.024 | 0.030 |
| | $P_{sb}$ (Power consumption standby mode) | [kW] | 0.014 | 0.014 | 0.020 | 0.014 | 0.020 | 0.014 | 0.020 |
| | $P_{CK}$ (Power crankcase heater model) | [kW] | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | $Q_{elec}$ (Daily electricity consumption) | [kWh] | 5.67 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 |
| | $Q_{fuel}$ (Daily fuel consumption) | [kWh] | - | - | - | - | - | - | - |
| Part load conditions space heating average climate | | | | | | | | | |
| (A) condition (-7℃) | $P_{dh}$ (declared heating capacity) | [kW] | 6.78 | 10.24 | 10.24 | 10.68 | 10.68 | 11.52 | 11.52 |
| | $COP_d$ (declared COP) | - | 2.24 | 2.01 | 2.01 | 2.01 | 2.01 | 1.99 | 1.99 |
| | Cdh (declaradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (B) condition (2℃) | $P_{dh}$ (declared heating capacity) | [kW] | 4.28 | 6.52 | 6.52 | 6.86 | 6.86 | 7.18 | 7.18 |
| | $COP_d$ (declared COP) | - | 3.42 | 3.44 | 3.44 | 3.43 | 3.43 | 3.34 | 3.34 |
| | Cdh (declaradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7℃) | $P_{dh}$ (declared heating capacity) | [kW] | 2.77 | 4.36 | 4.36 | 4.63 | 4.63 | 4.67 | 4.67 |
| | $COP_d$ (declared COP) | - | 4.52 | 4.59 | 4.59 | 4.66 | 4.66 | 4.61 | 4.61 |
| | Cdh (declaradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12℃) | $P_{dh}$ (declared heating capacity) | [kW] | 1.58 | 3.29 | 3.29 | 3.31 | 3.31 | 3.32 | 3.32 |
| | $COP_d$ (declared COP) | - | 5.68 | 6.05 | 6.05 | 6.13 | 6.13 | 6.07 | 6.07 |
| | Cdh (declaradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (Temperature Operating Limit) | Tol (Temperature Operating Limit) | [℃] | -10 | -10 | -10 | -10 | -10 | -10 | -10 |
| | $P_{dh}$ (declared heating capacity) | [kW] | 5.38 | 9.1 | 9.1 | 9.19 | 9.19 | 10.33 | 10.33 |
| | $COP_d$ (declared COP) | - | 1.83 | 1.79 | 1.79 | 1.76 | 1.76 | 1.80 | 1.80 |
| | WTOL(Heating water Operation Limit) | [℃] | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| (F) Tbivalent Temperature | $T_{biv}$ | [℃] | -7 | -7 | -7 | -7 | -7 | -7 | -7 |
| | $P_{dh}$ (declared heating capacity) | [kW] | 6.78 | 10.27 | 10.27 | 10.68 | 10.68 | 11.52 | 11.52 |
| | $COP_d$ (declared COP) | - | 2.24 | 2.01 | 2.01 | 2.01 | 2.01 | 1.99 | 1.99 |
| Capacity of the back-up heater integrated in the unit | $P_{sup}$ back-up heater (@ Tdesignh: -10℃) | [kW] | 3/6/9 | 3/6/9 | 3/6/9 | 3/6/9 | 3/6/9 | 3/6/9 | 3/6/9 |
| Supplementary capacity at P_design | $P_{sup}$ (@ Tdesignh: -10℃) | [kW] | 2.28 | 2.5 | 2.5 | 2.91 | 2.91 | 2.67 | 2.67 |

| Model | | For medium - temperature application | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | average climate | | | colder climate | | | warmer climate | | |
| Outdoor unit | Indoor unit | Energy efficiency class | Indoor unit sound power | Outdoor unit sound power | Rated heat output | Seasonal space heating energy efficiency | For space heating,annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating,annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating,annual energy consumption |
| | | - | dB | dB | kW | % | kWh | kW | % | kWh | kW | % | kWh |
| KHP-BI 4 DVR2 | KHPM-BI 6 DVR2 | A++ | 38 | 56 | 4.4 | 129.5 | 2744 | 3.4 | 102.1 | 3158 | 5.0 | 163.1 | 1614 |
| | KHPI-BI-10VR2L | A++ | 38 | 56 | 4.4 | 129.5 | 2744 | 3.4 | 102.1 | 3158 | 5.0 | 163.1 | 1614 |
| | KHPI-BI-10VR2XL | A++ | 38 | 56 | 4.4 | 129.5 | 2744 | 3.4 | 102.1 | 3158 | 5.0 | 163.1 | 1614 |
| KHP-BI 6 DVR2 | KHPM-BI 6 DVR2 | A++ | 38 | 58 | 5.7 | 137.9 | 3345 | 4.3 | 111.1 | 3680 | 5.1 | 165.4 | 1634 |
| | KHPI-BI-10VR2L | A++ | 38 | 58 | 5.7 | 137.9 | 3345 | 4.3 | 111.1 | 3680 | 5.1 | 165.4 | 1634 |
| | KHPI-BI-10VR2XL | A++ | 38 | 58 | 5.7 | 137.9 | 3345 | 4.3 | 111.1 | 3680 | 5.1 | 165.4 | 1634 |
| KHP-BI 8 DVR2 | KHPM-BI 10 DVR2 | A++ | 42 | 59 | 6.6 | 131.5 | 4056 | 5.8 | 112.1 | 4948 | 7.6 | 177.2 | 2242 |
| | KHPI-BI-10VR2L | A++ | 40 | 59 | 6.6 | 131.5 | 4056 | 5.8 | 112.1 | 4948 | 7.6 | 177.2 | 2242 |
| | KHPI-BI-10VR2XL | A++ | 40 | 59 | 6.6 | 131.5 | 4056 | 5.8 | 112.1 | 4948 | 7.6 | 177.2 | 2242 |
| KHP-BI 10 DVR2 | KHPM-BI 10 DVR2 | A++ | 42 | 60 | 7.7 | 136.6 | 4539 | 6.7 | 116.5 | 5539 | 8.6 | 181.7 | 2496 |
| | KHPI-BI-10VR2L | A++ | 40 | 60 | 7.7 | 136.6 | 4539 | 6.7 | 116.5 | 5539 | 8.6 | 181.7 | 2496 |
| | KHPI-BI-10VR2XL | A++ | 40 | 60 | 7.7 | 136.6 | 4539 | 6.7 | 116.5 | 5539 | 8.6 | 181.7 | 2496 |
| KHP-BI 12 DVR2 | KHPM-BI 16 DVR2 | A++ | 43 | 64 | 11.6 | 135.1 | 6927 | 10.3 | 117.8 | 8419 | 12.5 | 174.1 | 3376 |
| | KHPI-BI-16VR2XL | A++ | 42 | 64 | 11.6 | 135.1 | 6927 | 10.3 | 117.8 | 8419 | 12.5 | 174.1 | 3376 |
| KHP-BI 12 DTR2 | KHPM-BI 16 DVR2 | A++ | 43 | 64 | 11.6 | 135.1 | 6928 | 10.3 | 117.7 | 8420 | 12.5 | 173.8 | 3780 |
| | KHPI-BI-16VR2XL | A++ | 42 | 64 | 11.6 | 135.1 | 6928 | 10.3 | 117.7 | 8420 | 12.5 | 173.8 | 3780 |
| KHP-BI 14 DVR2 | KHPM-BI 16 DVR2 | A++ | 43 | 65 | 12.1 | 135.6 | 7202 | 11.0 | 118.9 | 8866 | 13.7 | 176.5 | 4088 |
| | KHPI-BI-16VR2XL | A++ | 44 | 65 | 12.1 | 135.6 | 7202 | 11.0 | 118.9 | 8866 | 13.7 | 176.5 | 4088 |
| KHP-BI 14 DTR2 | KHPM-BI 16 DVR2 | A++ | 43 | 65 | 12.1 | 135.6 | 7203 | 11.0 | 118.9 | 8867 | 13.7 | 176.4 | 4092 |
| | KHPI-BI-16VR2XL | A++ | 44 | 65 | 12.1 | 135.6 | 7203 | 11.0 | 118.9 | 8867 | 13.7 | 176.4 | 4092 |
| KHP-BI 16 DVR2 | KHPM-BI 16 DVR2 | A++ | 43 | 68 | 13.0 | 133.3 | 7895 | 11.8 | 121.8 | 9309 | 13.8 | 176.1 | 4112 |
| | KHPI-BI-16VR2XL | A++ | 44 | 68 | 13.0 | 133.3 | 7895 | 11.8 | 121.8 | 9309 | 13.8 | 176.1 | 4112 |
| KHP-BI 16 DTR2 | KHPM-BI 16 DVR2 | A++ | 43 | 68 | 13.0 | 133.2 | 7896 | 11.8 | 121.8 | 9310 | 13.8 | 175.9 | 4116 |
| | KHPI-BI-16VR2XL | A++ | 44 | 68 | 13.0 | 133.2 | 7896 | 11.8 | 121.8 | 9310 | 13.8 | 175.9 | 4116 |

| Model | | For low - temperature appl ication | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outdoor unit | Indoor unit | Energy efficiency class | Indoor unit sound power | Outdoor unit sound power | average climate | | | colder climate | | | warmer climate | | |
| | | | | | Rated heat output | Seasonal space heating energy efficiency | For space heating,annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating,annual energy consumption | Rated heat output | Seasonal space heating energy efficiency | For space heating,annual energy consumption |
| | | - | dB | dB | kW | % | kWh | kW | % | kWh | kW | % | kWh |
| KHP-BI 4 DVR2 | KHPM-BI 6 DVR2 | A+++ | 38 | 56 | 5.5 | 191.0 | 2351 | 4.6 | 159.5 | 2769 | 5.5 | 255.4 | 1146 |
| | KHPI-BI-10VR2L | A+++ | 38 | 56 | 5.5 | 191.0 | 2351 | 4.6 | 159.5 | 2769 | 5.5 | 255.4 | 1146 |
| | KHPI-BI-10VR2XL | A+++ | 38 | 56 | 5.5 | 191.0 | 2351 | 4.6 | 159.5 | 2769 | 5.5 | 255.4 | 1146 |
| KHP-BI 6 DVR2 | KHPM-BI 6 DVR2 | A+++ | 38 | 58 | 6.8 | 195.0 | 2845 | 5.6 | 165.3 | 3300 | 6.1 | 259.8 | 1244 |
| | KHPI-BI-10VR2L | A+++ | 38 | 58 | 6.8 | 195.0 | 2845 | 5.6 | 165.3 | 3300 | 6.1 | 259.8 | 1244 |
| | KHPI-BI-10VR2XL | A+++ | 38 | 58 | 6.8 | 195.0 | 2845 | 5.6 | 165.3 | 3300 | 6.1 | 259.8 | 1244 |
| KHP-BI 8 DVR2 | KHPM-BI 10 DVR2 | A+++ | 42 | 59 | 8.1 | 205.6 | 3218 | 7.0 | 170.0 | 3976 | 8.1 | 276.6 | 1551 |
| | KHPI-BI-10VR2L | A+++ | 40 | 59 | 8.1 | 205.6 | 3218 | 7.0 | 170.0 | 3976 | 8.1 | 276.6 | 1551 |
| | KHPI-BI-10VR2XL | A+++ | 40 | 59 | 8.1 | 205.6 | 3218 | 7.0 | 170.0 | 3976 | 8.1 | 276.6 | 1551 |
| KHP-BI 10 DVR2 | KHPM-BI 10 DVR2 | A+++ | 42 | 60 | 9.2 | 204.8 | 3644 | 7.7 | 169.8 | 4423 | 8.6 | 280.5 | 1617 |
| | KHPI-BI-10VR2L | A+++ | 40 | 60 | 9.2 | 204.8 | 3644 | 7.7 | 169.8 | 4423 | 8.6 | 280.5 | 1617 |
| | KHPI-BI-10VR2XL | A+++ | 40 | 60 | 9.2 | 204.8 | 3644 | 7.7 | 169.8 | 4423 | 8.6 | 280.5 | 1617 |
| KHP-BI 12 DVR2 | KHPM-BI 16 DVR2 | A+++ | 43 | 64 | 12.0 | 189.4 | 5152 | 11.4 | 160.2 | 6870 | 11.1 | 256.1 | 2292 |
| | KHPI-BI-16VR2XL | A+++ | 42 | 64 | 12.0 | 189.4 | 5152 | 11.4 | 160.2 | 6870 | 11.1 | 256.1 | 2292 |
| KHP-BI 12 DTR2 | KHPM-BI 16 DVR2 | A+++ | 43 | 64 | 12.0 | 189.3 | 5153 | 11.4 | 160.2 | 6871 | 11.1 | 255.6 | 2296 |
| | KHPI-BI-16VR2XL | A+++ | 42 | 64 | 12.0 | 189.3 | 5153 | 11.4 | 160.2 | 6871 | 11.1 | 255.6 | 2296 |
| KHP-BI 14 DVR2 | KHPM-BI 16 DVR2 | A+++ | 43 | 65 | 13.7 | 185.7 | 6012 | 12.6 | 159.6 | 7667 | 12.1 | 260.3 | 2457 |
| | KHPI-BI-16VR2XL | A+++ | 44 | 65 | 13.7 | 185.7 | 6012 | 12.6 | 159.6 | 7667 | 12.1 | 260.3 | 2457 |
| KHP-BI 14 DTR2 | KHPM-BI 16 DVR2 | A+++ | 43 | 65 | 13.7 | 185.6 | 6013 | 12.6 | 159.6 | 7667 | 12.1 | 259.8 | 2462 |
| | KHPI-BI-16VR2XL | A+++ | 44 | 65 | 13.7 | 185.6 | 6013 | 12.6 | 159.6 | 7667 | 12.1 | 259.8 | 2462 |
| KHP-BI 16 DVR2 | KHPM-BI 16 DVR2 | A+++ | 43 | 68 | 15.2 | 181.7 | 6804 | 13.7 | 157.8 | 8431 | 13.1 | 248.5 | 2781 |
| | KHPI-BI-16VR2XL | A+++ | 44 | 68 | 15.2 | 181.7 | 6804 | 13.7 | 157.8 | 8431 | 13.1 | 248.5 | 2781 |
| KHP-BI 16 DTR2 | KHPM-BI 16 DVR2 | A+++ | 43 | 68 | 15.2 | 181.6 | 6805 | 13.7 | 157.8 | 8431 | 13.1 | 248.1 | 2786 |
| | KHPI-BI-16VR2XL | A+++ | 44 | 68 | 15.2 | 181.6 | 6805 | 13.7 | 157.8 | 8431 | 13.1 | 248.1 | 2786 |

# Product fiche 1

| Heat pump space heater | | Outdoor | KHP-BI 4 DVR2 | KHP-BI 6 DVR2 | KHP-BI 8 DVR2 | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 |
|---|---|---|---|---|---|---|---|
| | | Indoor | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL |
| Indoor unit sound power (*) | | dB | 38[a)] /38[b)] | 38[a)] /38[b)] | 42[a)] /40[b)] | 42[a)] /40[b)] | 43[a)] /42[b)] |
| Outdoor unit sound power (*) | Average climate low temperature application | dB | 56 | 58 | 59 | 60 | 64 |
| | Average climate medium temperature application | dB | 56 | 58 | 59 | 60 | 64 |
| Capicity of the back-up heater integrated in the unit | Psup back-up heater (optional) | [kW] | 3/6/9 | 3/6/9 | 3/6/9 | 3/6/9 | 3/6/9 |
| Space heating | Energy efficiency class 35°C (Low temp. app.) | - | A+++ | A+++ | A+++ | A+++ | A+++ |
| Space heating | Energy efficiency class 55°C (Medium temp. app.) | - | A++ | A++ | A++ | A++ | A++ |
| Average climate (Design temperature = –10°C) | | | | | | | |
| Space heating 35°C | Prated (declared heating capacity) @ –10°C | [kW] | 5.5 | 6.8 | 8.1 | 9.2 | 12.0 |
| | Seasonal space heating efficiency (ηs) | [%] | 191.0 | 195.0 | 205.6 | 204.8 | 189.4 |
| | Annual energy consumption | [kWh] | 2,351 | 2,845 | 3,218 | 3,644 | 5,152 |
| Space heating 55°C | Prated (declared heating capacity) @ –10°C | [kW] | 4.4 | 5.7 | 6.6 | 7.7 | 11.6 |
| | Seasonal space heating efficiency (ηs) | [%] | 129.5 | 137.9 | 131.5 | 136.6 | 135.1 |
| | Annual energy consumption | [kWh] | 2,744 | 3,345 | 4,056 | 4,539 | 6,927 |
| Part load conditions space heating average climate low temperature application | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 4.88 | 6.03 | 7.18 | 8.10 | 10.61 |
| | COPd (declared COP) | - | 3.19 | 3.09 | 3.35 | 3.23 | 2.88 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 3.05 | 3.88 | 4.65 | 5.18 | 6.69 |
| | COPd (declared COP) | - | 4.78 | 4.85 | 5.09 | 5.01 | 4.65 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 1.93 | 2.39 | 2.90 | 3.32 | 4.44 |
| | COPd (declared COP) | - | 6.13 | 6.63 | 6.82 | 7.08 | 6.62 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.48 | 1.39 | 1.63 | 1.65 | 3.74 |
| | COPd (declared COP) | - | 8.05 | 7.93 | 8.35 | 8.58 | 8.47 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
| | Pdh (declared heating capacity) | [kW] | 4.41 | 5.36 | 6.44 | 7.40 | 10.74 |
| | COPd (declared COP) | - | 2.86 | 2.76 | 3.04 | 2.96 | 2.77 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 | 65 | 65 | 65 | 65 |

Note :
a) represents the hydraulic module series ;
b) represents the m-thermal tank series ;

# Product fiche 2

| Heat pump space heater | | Outdoor | KHP-BI 4 DVR2 | KHP-BI 6 DVR2 | KHP-BI 8 DVR2 | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 |
|---|---|---|---|---|---|---|---|
| | | Indoor | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL |
| (F) Tbivalent temperature | Tbiv | [°C] | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 |
| | Pdh (declared heating capacity) | [kW] | 4.88 | 6.03 | 7.18 | 8.10 | 10.61 |
| | COPd (declared COP) | - | 3.19 | 3.09 | 3.35 | 3.23 | 2.88 |
| Supplementary capacity at P_design | Psup (@Tdesignh: –10°C) | [kW] | 1.11 | 1.45 | 1.68 | 1.76 | 1.26 |
| Part load conditions space heating average climate medium temperature application | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 3.89 | 5.04 | 5.84 | 6.78 | 10.24 |
| | COPd (declared COP) | - | 2.17 | 2.17 | 2.16 | 2.24 | 2.01 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 2.38 | 3.12 | 3.75 | 4.28 | 6.52 |
| | COPd (declared COP) | - | 3.30 | 3.51 | 3.30 | 3.42 | 3.44 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 2.94 | 2.08 | 2.42 | 2.77 | 4.36 |
| | COPd (declared COP) | - | 4.41 | 4.54 | 4.34 | 4.52 | 4.59 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.32 | 1.28 | 1.39 | 1.58 | 3.29 |
| | COPd (declared COP) | - | 5.66 | 5.59 | 5.33 | 5.68 | 6.05 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
| | Pdh (declared heating capacity) | [kW] | 3.42 | 4.52 | 4.90 | 5.38 | 9.10 |
| | COPd (declared COP) | - | 1.91 | 1.91 | 1.84 | 1.83 | 1.79 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 | 65 | 65 | 65 | 65 |
| (F) Tbivalent temperature | Tbiv | [°C] | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 |
| | Pdh (declared heating capacity) | [kW] | 3.89 | 5.04 | 5.84 | 6.78 | 10.24 |
| | COPd (declared COP) | - | 2.17 | 2.17 | 2.16 | 2.24 | 2.01 |
| Supplementary capacity at P_design | Psup (@Tdesignh: –10°C) | [kW] | 0.98 | 1.18 | 1.69 | 2.28 | 2.50 |
| Colder climate (Design temperature = –22°C) | | | | | | | |
| Space heating 35°C | Prated (declared heating capacity) @ –22°C | [kW] | 4.6 | 5.6 | 7.0 | 7.7 | 11.4 |
| | Seasonal space heating efficiency (ηs) | [%] | 159.5 | 165.3 | 170.0 | 169.8 | 160.2 |
| | Annual energy consumption | [kWh] | 2,769 | 3,300 | 3,976 | 4,423 | 6,870 |

# Product fiche 3

| Heat pump space heater | | Outdoor | KHP-BI 4 DVR2 | KHP-BI 6 DVR2 | KHP-BI 8 DVR2 | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 |
|---|---|---|---|---|---|---|---|
| | | Indoor | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL |
| Space heating 55°C | Prated (declared heating capacity) @ –22°C | [kW] | 3.4 | 4.3 | 5.8 | 6.7 | 10.3 |
| | Seasonal space heating efficiency (ηs) | [%] | 102.1 | 111.1 | 112.0 | 116.4 | 117.8 |
| | Annual energy consumption | [kWh] | 3,159 | 3,681 | 4,950 | 5,540 | 8,419 |
| Part load conditions space heating colder climate low temperature application | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 2.75 | 3.42 | 4.46 | 4.83 | 7.05 |
| | COPd (declared COP) | - | 3.49 | 3.59 | 3.66 | 3.60 | 3.48 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 1.77 | 2.06 | 2.69 | 2.94 | 4.67 |
| | COPd (declared COP) | - | 4.95 | 5.21 | 5.20 | 5.26 | 4.96 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 1.17 | 1.46 | 1.65 | 1.92 | 3.14 |
| | COPd (declared COP) | - | 5.53 | 6.24 | 6.53 | 7.08 | 6.10 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.43 | 1.44 | 1.65 | 1.65 | 3.57 |
| | COPd (declared COP) | - | 7.67 | 7.66 | 7.96 | 7.96 | 7.87 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -22.00 | -22.00 | -22.00 | -22.00 | -22.00 |
| | Pdh (declared heating capacity) | [kW] | 2.80 | 3.48 | 4.06 | 4.62 | 7.01 |
| | COPd (declared COP) | - | 1.97 | 1.96 | 1.95 | 1.97 | 1.98 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 | 65 | 65 | 65 | 65 |
| (F) Tbivalent temperature | Tbiv | [°C] | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
| | Pdh (declared heating capacity) | [kW] | 3.72 | 4.59 | 5.69 | 6.32 | 9.28 |
| | COPd (declared COP) | - | 2.57 | 2.53 | 2.83 | 2.64 | 2.59 |
| Supplementary capacity at P_design | Psup (@Tdesignh: –22°C) | [kW] | 1.76 | 2.15 | 2.91 | 3.08 | 4.40 |
| Part load conditions space heating colder climate medium temperature application | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 2.13 | 2.70 | 3.86 | 4.27 | 6.63 |
| | COPd (declared COP) | - | 2.32 | 2.46 | 2.48 | 2.54 | 2.63 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |

# Product fiche 4

| Heat pump space heater | | Outdoor | KHP-BI 4 DVR2 | KHP-BI 6 DVR2 | KHP-BI 8 DVR2 | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 |
|---|---|---|---|---|---|---|---|
| | | Indoor | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 1.28 | 1.60 | 2.21 | 2.57 | 4.06 |
| | COPd (declared COP) | - | 2.99 | 3.36 | 3.35 | 3.51 | 3.60 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 1.01 | 1.02 | 1.44 | 1.65 | 2.78 |
| | COPd (declared COP) | - | 3.86 | 3.94 | 4.11 | 4.37 | 4.54 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.36 | 1.37 | 1.46 | 1.47 | 3.33 |
| | COPd (declared COP) | - | 6.28 | 6.35 | 5.92 | 5.96 | 6.25 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | -22.00 | -22.00 | -22.00 | -22.00 | -22.00 |
| | Pdh (declared heating capacity) | [kW] | 1.64 | 2.09 | 2.80 | 2.80 | 4.19 |
| | COPd (declared COP) | - | 1.02 | 1.13 | 1.22 | 1.22 | 1.13 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 | 65 | 65 | 65 | 65 |
| (F) Tbivalent temperature | Tbiv | [°C] | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
| | Pdh (declared heating capacity) | [kW] | 2.74 | 3.47 | 4.71 | 5.47 | 8.41 |
| | COPd (declared COP) | - | 1.74 | 1.86 | 1.90 | 2.00 | 1.84 |
| Supplementary capacity at P_design | Psup (@Tdesignh: –22°C) | [kW] | 1.72 | 2.17 | 2.97 | 3.91 | 6.12 |
| Warmer climate (Design temperature = 2°C) | | | | | | | |
| Space heating 35°C | Prated (declared heating capacity) @ 2°C | [kW] | 5.5 | 6.1 | 8.1 | 8.6 | 11.1 |
| | Seasonal space heating efficiency (ηs) | [%] | 255.4 | 259.8 | 276.6 | 280.5 | 256.1 |
| | Annual energy consumption | [kWh] | 1,146 | 1,244 | 1,551 | 1,617 | 2,292 |
| Space heating 55°C | Prated (declared heating capacity) @ 2°C | [kW] | 5.0 | 5.1 | 7.6 | 8.6 | 12.5 |
| | Seasonal space heating efficiency (ηs) | [%] | 162.4 | 164.7 | 175.8 | 180.3 | 174.0 |
| | Annual energy consumption | [kWh] | 1,621 | 1,640 | 2,259 | 2,516 | 3,776 |
| Part load conditions space heating warmer climate low temperature application | | | | | | | |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 5.34 | 5.93 | 7.56 | 8.44 | 11.26 |
| | COPd (declared COP) | - | 3.94 | 3.91 | 3.98 | 3.84 | 3.59 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 3.56 | 3.93 | 5.22 | 5.52 | 7.14 |
| | COPd (declared COP) | - | 5.92 | 5.89 | 6.26 | 6.18 | 5.87 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |

# Product fiche 5

| Heat pump space heater | | Outdoor | KHP-BI 4 DVR2 | KHP-BI 6 DVR2 | KHP-BI 8 DVR2 | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 |
|---|---|---|---|---|---|---|---|
| | | Indoor | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.63 | 1.79 | 2.62 | 2.62 | 3.55 |
| | COPd (declared COP) | - | 7.91 | 8.20 | 9.23 | 9.04 | 7.94 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 5.34 | 5.93 | 7.56 | 8.44 | 11.26 |
| | COPd (declared COP) | - | 3.94 | 3.91 | 3.98 | 3.84 | 3.59 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 | 65 | 65 | 65 | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 3.56 | 3.93 | 5.22 | 5.52 | 7.14 |
| | COPd (declared COP) | - | 5.92 | 5.89 | 6.26 | 6.18 | 5.87 |
| Supplementary capacity at P_design | Psup (@Tdesignh: 2°C) | [kW] | 0.18 | 0.18 | 0.55 | 0.14 | 0.00 |
| Part load conditions space heating warmer climate medium temperature application | | | | | | | |
| (B) condition (2°C) | Pdh (declared heating capacity) | [kW] | 4.83 | 5.02 | 7.55 | 8.06 | 12.07 |
| | COPd (declared COP) | - | 2.51 | 2.48 | 2.59 | 2.59 | 2.31 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity) | [kW] | 3.22 | 3.31 | 4.86 | 5.54 | 8.04 |
| | COPd (declared COP) | - | 3.68 | 3.67 | 3.92 | 4.10 | 3.86 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity) | [kW] | 1.47 | 1.59 | 2.31 | 2.53 | 3.75 |
| | COPd (declared COP) | - | 5.15 | 5.29 | 5.55 | 5.82 | 5.70 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 4.83 | 5.02 | 7.83 | 8.15 | 12.07 |
| | COPd (declared COP) | - | 2.51 | 2.48 | 2.66 | 2.61 | 2.31 |
| | WTOL (Heating water Operation Limit) | [°C] | 65 | 65 | 65 | 65 | 65 |
| (F) Tbivalent temperature | Tblv | [°C] | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 3.22 | 3.31 | 4.86 | 5.54 | 8.04 |
| | COPd (declared COP) | - | 3.68 | 3.67 | 3.92 | 4.10 | 3.86 |
| Supplementary capacity at P_design | Psup (@Tdesignh: 2°C) | [kW] | 0.18 | 0.12 | 0.00 | 0.48 | 0.43 |

# Product fiche 6

| Heat pump space heater | | Outdoor | KHP-BI 4 DVR2 | KHP-BI 6 DVR2 | KHP-BI 8 DVR2 | KHP-BI 10 DVR2 | KHP-BI 12 DVR2 |
|---|---|---|---|---|---|---|---|
| | | Indoor | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL |
| Product description | Air-to-water heat pump | Y/N | Yes | Yes | Yes | Yes | Yes |
| | Water-to-water heat pump | Y/N | No | No | No | No | No |
| | Brine-to-water heat pump | Y/N | No | No | No | No | No |
| | Low-temperature heat pump | Y/N | No | No | No | No | No |
| | Equipped with a supplementary heater | Y/N | Yes | Yes | Yes | Yes | Yes |
| | Heat pump combination heater | Y/N | Yes | Yes | Yes | Yes | Yes |
| Air to water unit | Rated airflow (outdoor) | [$m^3$/h] | 2770 | 2770 | 4030 | 4030 | 4060 |
| Brine/water to water unit | Rated water/brine flow (outdoor H/E) | | / | / | / | / | / |
| Other | Capacity control | - | Inverter | Inverter | Inverter | Inverter | Inverter |
| | Poff (Power consumption Off mode) | [kW] | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 |
| | Pto (Power consumption Thermostat off mode) | [kW] | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 |
| | Psb (Power consumption Standby mode) | [kW] | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 |
| | PCK (Power crankcase heater model) | [kW] | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | Qelec (Daily electricity consumption) | [kWh] | / | / | / | / | / |
| | Qfuel (Daily fuel consumption) | [kWh] | / | / | / | / | / |

Note:
Indoor unit type explanation:
Hydraulic module series
1) KHPM-BI 6 DVR2 includes the following type:
KHPM-BI 60/CGN8-B: without back-up heater.
KHPM-BI 6 DVR2: with 3kW back-up heater and 1-Phase Source.
2).KHPM-BI 10 DVR2 includes the following type:
KHPM-BI 100/CGN8-B: without back-up heater.
KHPM-BI 10 DVR2: with 3kW back-up heater and 1-Phase Source.
KHPM-BI 100/CDS90GN8-B: with 9kW back-up heater and 3-Phase Source.
3).KHPM-BI 16 DVR2 includes the following type:
KHPM-BI 160/CGN8-B: without back-up heater.
KHPM-BI 16 DVR2: with 3kW back-up heater and 1-Phase Source.
KHPM-BI 160/CDS90GN8-B: with 9kW back-up heater and 3-Phase Source.

M-thermal tank seires
1).KHPI-BI-10VR2L includes the following type:
KHPI-BI-10VR2L: 190L tank with 3kW back-up heater and 1-Phase Source.
KHPI-BI-100/190CD60GN8-B: 190L tank with 6kW back-up heater and 1-Phase Source.
KHPI-BI-100/190CDS90GN8-B: 190L tank with 9kW back-up heater and 3-Phase Source.
2).KHPI-BI-10VR2XL includes the following type:
KHPI-BI-10VR2XL: 240L tank with 3kW back-up heater and 1-Phase Source.
KHPI-BI-100/240CD60GN8-B: 240L tank with 6kW back-up heater and 1-Phase Source.
KHPI-BI-100/240CDS90GN8-B: 240L tank with 9kW back-up heater and 3-Phase Source.
3).KHPI-BI-16VR2XL includes the following type:
KHPI-BI-16VR2XL: 240L tank with 3kW back-up heater and 1-Phase Source.
KHPI-BI-160/240CD60GN8-B: 240L tank with 6kW back-up heater and 1-Phase Source.
KHPI-BI-160/240CDS90GN8-B: 240L tank with 9kW back-up heater and 3-Phase Source.
Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.
Sound power measured according to the EN12102 under conditions of the EN14825.
Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

## Technical parameters

| | |
|---|---|
| Model(s): | Outdoor unit: KHP-BI 14 DTR2<br>Indoor unit: KHPM-BI 16 DVR2, KHPI-BI-16VR2XL |
| Air-to-water heat pump: | YES |
| Water-to-water heat pump: | NO |
| Brine-to-water heat pump: | NO |
| Low-temperature heat pump: | NO |
| Equipped with a supplementary heater: | YES |
| Heat pump combination heater: | YES |
| Declared climate condition: | AVERAGE |
| Parameters are declared for medium-temperature application. | |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 12.1 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | Pdh | 10.68 | kW |
| Tj = 2℃ | Pdh | 6.86 | kW |
| Tj = 7℃ | Pdh | 4.63 | kW |
| Tj = 12℃ | Pdh | 3.31 | kW |
| Tj = bivalent temperature | Pdh | 10.68 | kW |
| Tj = operating limit | Pdh | 9.19 | kW |
| For air-to-water heat pumps: Tj = -15℃ | Pdh | - | kW |
| Bivalent temperature | $T_{biv}$ | -7 | °C |
| Cycling interval capacity for heating | $P_{cych}$ | - | kW |
| Degradation co-efficient (**) | $C_{dh}$ | 0.9 | -- |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{off}$ | 0.020 | kW |
| Standby mode | $P_{sb}$ | 0.020 | kW |
| Thermostat-off mode | $P_{to}$ | 0.030 | kW |
| Crankcase heater mode | $P_{ck}$ | 0.000 | kW |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 135.6 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | COPd | 2.01 | - |
| Tj = 2℃ | COPd | 3.43 | - |
| Tj = 7℃ | COPd | 4.66 | - |
| Tj = 12℃ | COPd | 6.13 | - |
| Tj = bivalent temperature | COPd | 2.01 | - |
| Tj = operating limit | COPd | 1.76 | - |
| For air-to-water heat pumps: Tj = -15℃ | COPd | - | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Cycling interval efficiency | $COP_{cyc}$ | - | - |
| Heating water operating limit temperature | $W_{TOL}$ | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (**) | $P_{sup}$ | 1.40 | kW |
| Type of energy input | Electrical | | |

| Other items | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4060 | $m^3/h$ |
| Sound power level, indoors/outdoors | $L_{WA}$ | 43[a)] /65<br>44[b)] /65 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ |
| Annual energy consumption | $Q_{HE}$ | 7203 | kWh | | | | |

| For heat pump combination heater: | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Declared load profile** | XL | | | **Water heating energy efficiency** | $\eta_{wh}$ | 123 | % |
| Daily electricity consumption | $Q_{clec}$ | 6.35 | kWh | Daily fuel consumption | $Q_{fuel}$ | - | kWh |
| Annual electricity consumption | AEC | 1360 | kWh | Annual fuel consumption | AFC | - | GJ |

| | |
|---|---|
| Contact details | GD Midea Heating & Ventilating Equipment Co. Ltd<br>(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China) |

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9. a) Represents : KHPM-BI 16 DVR2
b) Represents : KHPI-BI-16VR2XL

## Technical parameters

| | |
|---|---|
| Model(s): | Outdoor unit: KHP-BI 14 DTR2<br>Indoor unit: KHPM-BI 16 DVR2, KHPI-BI-16VR2XL |
| Air-to-water heat pump: | YES |
| Water-to-water heat pump: | NO |
| Brine-to-water heat pump: | NO |
| Low-temperature heat pump: | NO |
| Equipped with a supplementary heater: | YES |
| Heat pump combination heater: | YES |
| Declared climate condition: | COLDER |

Parameters are declared for medium-temperature application.

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|---|---|---|---|---|---|---|---|
| Rated heat output (*) | Prated | 11.0 | kW | Seasonal space heating energy efficiency | ηs | 118.9 | % |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | Pdh | 6.89 | kW | Tj = -7℃ | COPd | 2.66 | - |
| Tj = 2℃ | Pdh | 4.32 | kW | Tj = 2℃ | COPd | 3.66 | - |
| Tj = 7℃ | Pdh | 3.06 | kW | Tj = 7℃ | COPd | 4.72 | - |
| Tj = 12℃ | Pdh | 3.33 | kW | Tj = 12℃ | COPd | 6.25 | - |
| Tj = bivalent temperature | Pdh | 8.94 | kW | Tj = bivalent temperature | COPd | 1.79 | - |
| Tj = operating limit | Pdh | 4.20 | kW | Tj = operating limit | COPd | 1.13 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| For air-to-water heat pumps: Tj = -15℃ | Pdh | - | kW | For air-to-water heat pumps: Tj = -15℃ | COPd | - | - |
| Bivalent temperature | $T_{biv}$ | -15 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -22 | °C |
| Cycling interval capacity for heating | $P_{cych}$ | - | kW | Cycling interval efficiency | $COP_{cyc}$ | - | - |
| Degradation co-efficient (**) | $C_{dh}$ | 0.9 | -- | Heating water operating limit temperature | $W_{TOL}$ | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | $P_{off}$ | 0.020 | kW | Rated heat output (**) | $P_{sup}$ | 6.80 | kW |
| Standby mode | $P_{sb}$ | 0.020 | kW | | | | |
| Thermostat-off mode | $P_{to}$ | 0.030 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | $P_{ck}$ | 0.000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4060 | $m^3/h$ |
| Sound power level, indoors/outdoors | $L_{WA}$ | - | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ |
| Annual energy consumption | $Q_{HE}$ | 8867 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| **Declared load profile** | XL | | | **Water heating energy efficiency** | $\eta_{wh}$ | 92 | % |
| Daily electricity consumption | $Q_{clec}$ | 8.49 | kWh | Daily fuel consumption | $Q_{fuel}$ | - | kWh |
| Annual electricity consumption | AEC | 1822 | kWh | Annual fuel consumption | AFC | - | GJ |
| Contact details | GD Midea Heating & Ventilating Equipment Co. Ltd<br>(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China) | | | | | | |

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

## Technical parameters

| | |
|---|---|
| Model(s): | Outdoor unit: KHP-BI 14 DTR2<br>Indoor unit: KHPM-BI 16 DVR2, KHPI-BI-16VR2XL |
| Air-to-water heat pump: | YES |
| Water-to-water heat pump: | NO |
| Brine-to-water heat pump: | NO |
| Low-temperature heat pump: | NO |
| Equipped with a supplementary heater: | YES |
| Heat pump combination heater: | YES |
| Declared climate condition: | WARMER |
| Parameters are declared for medium-temperature application. | |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 13.7 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | Pdh | - | kW |
| Tj = 2℃ | Pdh | 13.04 | kW |
| Tj = 7℃ | Pdh | 8.83 | kW |
| Tj = 12℃ | Pdh | 4.08 | kW |
| Tj = bivalent temperature | Pdh | 8.83 | kW |
| Tj = operating limit | Pdh | 13.04 | kW |
| For air-to-water heat pumps: Tj = -15℃ | Pdh | - | kW |
| Bivalent temperature | $T_{biv}$ | 7 | °C |
| Cycling interval capacity for heating | $P_{cych}$ | - | kW |
| Degradation co-efficient (**) | $C_{dh}$ | 0.9 | -- |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{off}$ | 0.020 | kW |
| Standby mode | $P_{sb}$ | 0.020 | kW |
| Thermostat-off mode | $P_{to}$ | 0.030 | kW |
| Crankcase heater mode | $P_{ck}$ | 0.000 | kW |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 176.4 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7℃ | COPd | - | - |
| Tj = 2℃ | COPd | 2.20 | - |
| Tj = 7℃ | COPd | 3.91 | - |
| Tj = 12℃ | COPd | 5.90 | - |
| Tj = bivalent temperature | COPd | 3.91 | - |
| Tj = operating limit | COPd | 2.20 | - |
| For air-to-water heat pumps: Tj = -15℃ | COPd | - | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C |
| Cycling interval efficiency | $COP_{cyc}$ | - | - |
| Heating water operating limit temperature | $W_{TOL}$ | 65 | °C |
| Supplementary heater | | | |
| Rated heat output (**) | $P_{sup}$ | 0.66 | kW |
| Type of energy input | Electrical | | |

| Other items | | | |
|---|---|---|---|
| Capacity control | variable | | |
| Sound power level, indoors/outdoors | $L_{WA}$ | - | dB |
| Annual energy consumption | $Q_{HE}$ | 4092 | kWh |

| | | | |
|---|---|---|---|
| For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4060 | $m^3/h$ |
| For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ |

| For heat pump combination heater: | | | |
|---|---|---|---|
| **Declared load profile** | XL | | |
| Daily electricity consumption | $Q_{clec}$ | 5.12 | kWh |
| Annual electricity consumption | AEC | 1088 | kWh |

| | | | |
|---|---|---|---|
| **Water heating energy efficiency** | $\eta_{wh}$ | 153 | % |
| Daily fuel consumption | $Q_{fuel}$ | - | kWh |
| Annual fuel consumption | AFC | - | GJ |

| Contact details | GD Midea Heating & Ventilating Equipment Co. Ltd<br>(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China) |
|---|---|

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

# Information requirements for comfort chillers

| | |
|---|---|
| Model(s): | Outdoor unit: KHP-BI 14 DTR2<br>Indoor unit: KHPM-BI 16 DVR2, KHPI-BI-16VR2XL |
| Outdoor side heat exchanger of chiller: | Air to water |
| Indoor side heat exchanger chiller: | Water |
| Type: | Compressor driven vapour compression |
| Driver of compressor: | Electric motor |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|---|---|---|---|---|---|---|---|
| Rated cooling capacity | $P_{rated,c}$ | 12.2 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 190.3 | % |
| Declared cooling capacity for part load at given outdoor temperature Tj | | | | Declared energy efficiency ratio for part load at given outdoor temperature Tj | | | |
| Tj=+35°C | $P_{dc}$ | 12.19 | kW | Tj=+35°C | $EER_d$ | 2.46 | - |
| Tj=+30°C | $P_{dc}$ | 9.41 | kW | Tj=+30°C | $EER_d$ | 3.85 | - |
| Tj=+25°C | $P_{dc}$ | 6.16 | kW | Tj=+25°C | $EER_d$ | 5.80 | - |
| Tj=+20°C | $P_{dc}$ | 2.63 | kW | Tj=+20°C | $EER_d$ | 6.74 | - |
| | | | | | | | |
| Degradationco-efficient for chillers(*) | $C_{dc}$ | 0.9 | - | | | | |
| Power consumption in modes other than "active mode" | | | | | | | |
| Off mode | $P_{OFF}$ | 0.020 | kW | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Thermosat-off mode | $P_{TO}$ | 0.010 | kW | Standby mode | $P_{SB}$ | 0.020 | kW |
| Other items | | | | | | | |

# Information requirements for comfort chillers

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4060 | $m^3/h$ |
| Soundpowerlevel, indoors /outdoors | $L_{WA}$ | 44/65 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | $NO_x$(**) | - | mg/kWh input GCV | For water /brine-to-water chillers:Ratedbrineor water flow rate, outdoor sideheatexchanger | - | - | $m^3/h$ |
| GWP of the refrigerant | - | 675 | kg $CO_2$ eq (100years) | | | | |
| Standard rating conditions used | Low temperature application | | | | | | |
| Contact details | GD Midea Heating & Ventilating Equipment Co. , Ltd.<br>Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China | | | | | | |

(*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.
(**) From 26 September 2018.

| | |
|---|---|
| Model(s): | Outdoor unit: KHP-BI 14 DTR2<br>Indoor unit: KHPM-BI 16 DVR2, KHPI-BI-16VR2XL |
| Outdoor side heat exchanger of chiller: | Air to water |
| Indoor side heat exchanger chiller: | Water |
| Type: | Compressor driven vapour compression |
| Driver of compressor: | Electric motor |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|---|---|---|---|---|---|---|---|
| Rated cooling capacity | $P_{rated,c}$ | 13.3 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 270.9 | % |
| Declared cooling capacity for part load at given outdoor temperature Tj | | | | Declared energy efficiency ratio for part load at given outdoor temperature Tj | | | |
| Tj=+35°C | $P_{dc}$ | 13.30 | kW | Tj=+35°C | $EER_d$ | 3.47 | - |
| Tj=+30°C | $P_{dc}$ | 10.20 | kW | Tj=+30°C | $EER_d$ | 5.26 | - |
| Tj=+25°C | $P_{dc}$ | 6.57 | kW | Tj=+25°C | $EER_d$ | 8.45 | - |
| Tj=+20°C | $P_{dc}$ | 3.33 | kW | Tj=+20°C | $EER_d$ | 10.07 | - |
| Degradationco-efficient for chillers(*) | $C_{dc}$ | 0.9 | - | | | | |

# Information requirements for comfort chillers

| Power consumption in modes other than "active mode" | | | | | | | |
|---|---|---|---|---|---|---|---|
| Off mode | $P_{OFF}$ | 0.020 | kW | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Thermosat-off mode | $P_{TO}$ | 0.010 | kW | Standby mode | $P_{SB}$ | 0.020 | kW |

| Other items | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4060 | $m^3/h$ |
| Soundpowerlevel, indoors /outdoors | $L_{WA}$ | 44/64 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | $NO_x$(**) | - | mg/kWh input GCV | For water /brine-to-water chillers:Ratedbrineor water flow rate, outdoor sideheatexchanger | - | - | $m^3/h$ |
| GWP of the refrigerant | - | 675 | kg $CO_{2\ eq}$ (100years) | | | | |
| Standard rating conditions used | Medium temperature application | | | | | | |
| Contact details | GD Midea Heating & Ventilating Equipment Co. , Ltd.<br>Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China | | | | | | |

(*) If $C_{dc}$ is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.
(**) From 26 September 2018.

| Condition(°C) | Outdoor unit | Indoor unit | Capacity (kW) | Power input (kW) | EER/COP (/) |
|---|---|---|---|---|---|
| Ambient Temperature：35/24<br>Water temperature：12/7 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.70 | 1.36 | 3.45 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.00 | 2.33 | 3.00 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.40 | 2.19 | 3.38 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.20 | 2.48 | 3.30 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.60 | 4.22 | 2.75 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.70 | 4.98 | 2.55 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.00 | 5.71 | 2.45 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.60 | 4.22 | 2.75 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.70 | 4.98 | 2.55 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.00 | 5.71 | 2.45 |
| Ambient Temperature：35/24<br>Water temperature：23/18 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.50 | 0.81 | 5.55 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.55 | 1.34 | 4.90 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.40 | 1.66 | 5.05 |

| | | | | | |
|---|---|---|---|---|---|
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 10.00 | 2.08 | 4.80 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.00 | 3.00 | 4.00 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.50 | 3.75 | 3.60 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.90 | 4.38 | 3.40 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.00 | 3.00 | 4.00 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.50 | 3.75 | 3.60 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.90 | 4.38 | 3.40 |

| Condition(°C） | Outdoor unit | Indoor unit | Capacity (kW) | Power input (kW) | EER/COP (/) |
|---|---|---|---|---|---|
| Ambient Temperature：7/6<br>Water temperature：30/35 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.25 | 0.82 | 5.20 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.20 | 1.24 | 5.00 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.30 | 1.60 | 5.20 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 10.00 | 2.00 | 5.00 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.10 | 2.44 | 4.95 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.50 | 3.09 | 4.70 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 16.00 | 3.56 | 4.50 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.10 | 2.44 | 4.95 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.50 | 3.09 | 4.70 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 16.00 | 3.56 | 4.50 |
| Ambient Temperature：2/1<br>Water temperature：30/35 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.45 | 1.10 | 4.05 |

| | | | | | |
|---|---|---|---|---|---|
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.50 | 1.39 | 3.95 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.10 | 1.73 | 4.10 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.20 | 2.02 | 4.05 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 9.30 | 2.35 | 3.95 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.40 | 3.12 | 3.65 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.00 | 3.71 | 3.50 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 9.30 | 2.35 | 3.95 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.40 | 3.12 | 3.65 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.00 | 3.71 | 3.50 |

| Condition(°C） | Outdoor unit | Indoor unit | Capacity (kW) | Power input (kW) | EER/COP (/) |
|---|---|---|---|---|---|
| Ambient Temperature：-7/-8<br>Water temperature：30/35 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.80 | 1.52 | 3.15 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.10 | 2.00 | 3.05 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.10 | 2.18 | 3.25 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.25 | 2.62 | 3.15 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.00 | 3.33 | 3.00 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.00 | 4.29 | 2.80 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.30 | 4.93 | 2.70 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.00 | 3.33 | 3.00 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.00 | 4.29 | 2.80 |

| | | | | | |
|---|---|---|---|---|---|
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.30 | 4.93 | 2.70 |
| Ambient Temperature：7/6<br>Water temperature：40/45 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.35 | 1.14 | 3.80 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.35 | 1.69 | 3.75 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.20 | 2.08 | 3.95 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 10.00 | 2.63 | 3.80 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.30 | 3.24 | 3.80 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.20 | 3.89 | 3.65 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 16.00 | 4.44 | 3.60 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.30 | 3.24 | 3.80 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 14.20 | 3.89 | 3.65 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 16.00 | 4.44 | 3.60 |

| Condition(°C） | Outdoor unit | Indoor unit | Capacity (kW) | Power input (kW) | EER/COP (/) |
|---|---|---|---|---|---|
| Ambient Temperature：2/1<br>Water temperature：40/45 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.10 | 1.70 | 3.00 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.80 | 1.93 | 3.00 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.40 | 2.28 | 3.25 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.85 | 2.45 | 3.20 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.70 | 3.57 | 3.00 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.70 | 4.09 | 2.86 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.80 | 4.49 | 2.85 |

| | | | | | |
|---|---|---|---|---|---|
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.70 | 3.57 | 3.00 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.70 | 4.09 | 2.86 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.80 | 4.49 | 2.85 |
| Ambient Temperature：-7/-8<br>Water temperature：40/45 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.30 | 1.83 | 2.35 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.40 | 2.25 | 2.40 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.60 | 2.59 | 2.55 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.35 | 2.88 | 2.55 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.20 | 4.25 | 2.40 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.80 | 5.02 | 2.35 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.90 | 5.78 | 2.23 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.20 | 4.25 | 2.40 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.80 | 5.02 | 2.35 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.90 | 5.78 | 2.23 |

| Condition(°C） | Outdoor unit | Indoor unit | Capacity (kW) | Power input (kW) | EER/COP (/) |
|---|---|---|---|---|---|
| Ambient Temperature：7/6<br>Water temperature：47/55 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.40 | 1.49 | 2.95 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.00 | 2.00 | 3.00 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.50 | 2.36 | 3.18 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 9.50 | 3.06 | 3.10 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.00 | 3.87 | 3.10 |

| | | | | | |
|---|---|---|---|---|---|
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.80 | 4.60 | 3.00 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 16.00 | 5.52 | 2.90 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.00 | 3.87 | 3.10 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.80 | 4.60 | 3.00 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 16.00 | 5.52 | 2.90 |
| Ambient Temperature：2/1<br>Water temperature：47/55 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.10 | 2.08 | 2.45 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.65 | 2.31 | 2.45 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 7.10 | 2.73 | 2.60 |
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 8.10 | 3.16 | 2.56 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.40 | 4.47 | 2.55 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.40 | 5.06 | 2.45 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.40 | 5.58 | 2.40 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.40 | 4.47 | 2.55 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.80 | 4.82 | 2.45 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 13.40 | 5.58 | 2.40 |
| Condition(°C） | Outdoor unit | Indoor unit | Capacity (kW) | Power input (kW) | EER/COP (/) |
| Ambient Temperature：-7/-8<br>Water temperature：47/55 | KHP-BI 4 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 4.00 | 2.05 | 1.95 |
| | KHP-BI 6 DVR2 | KHPM-BI 6 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 5.15 | 2.58 | 2.00 |
| | KHP-BI 8 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.15 | 3.00 | 2.05 |

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|---|---|---|---|---|---|
| | KHP-BI 10 DVR2 | KHPM-BI 10 DVR2<br>KHPI-BI-10VR2L<br>KHPI-BI-10VR2XL | 6.85 | 3.43 | 2.00 |
| | KHP-BI 12 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.00 | 4.88 | 2.05 |
| | KHP-BI 14 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.00 | 5.37 | 2.05 |
| | KHP-BI 16 DVR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.50 | 6.19 | 2.02 |
| | KHP-BI 12 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 10.00 | 4.88 | 2.05 |
| | KHP-BI 14 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 11.00 | 5.37 | 2.05 |
| | KHP-BI 16 DTR2 | KHPM-BI 16 DVR2<br>KHPI-BI-16VR2XL | 12.50 | 6.19 | 2.02 |