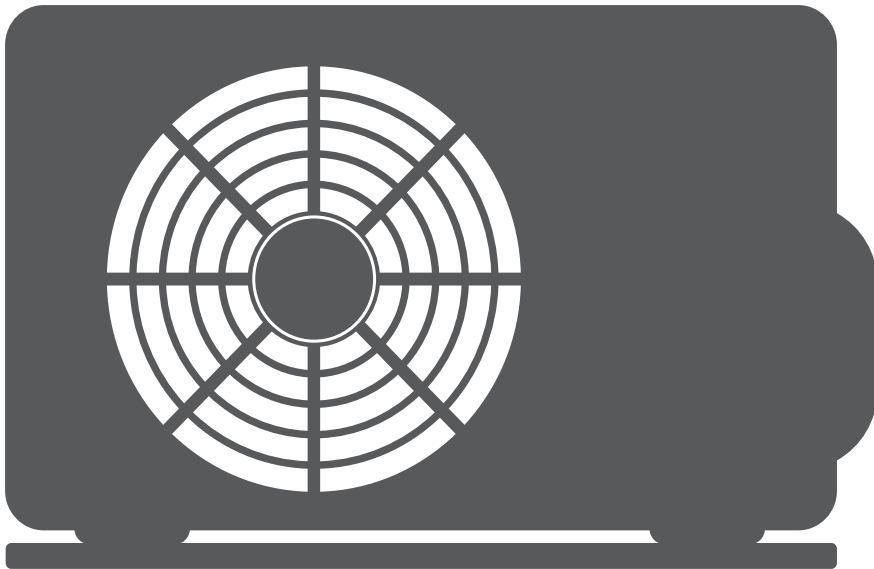


HYUNDAI

AIR CONDITIONING SYSTEMS

AIR-TO-WATER HEAT PUMP - MONOBLOCK

• PRODUCT FICHE



MODELS:

HY/S-40B/EN8BP
HY/S-60B/EN8BP
HY/S-80B/EN8BP
HY/S-100B/EN8BP
HY/S-120B/EN8BP
HY/S-140B/EN8BP
HY/S-160B/EN8BP

ENGLISH



| For low-temperature application | | | | | | | | | | | |
|------------------------------------|-------------------------|------------------------|-------------------|--|---|-------------------|--|---|-------------------|--|---|
| Model | Energy efficiency class | Unit sound power dB | 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 |
| | | | kW | % | kWh | kW | % | kWh | kW | % | kWh |
| HY/S-40B/EN8BP | A+++ | 55 | 4.0 | 201 | 1617 | 4.0 | 166 | 2325 | 4.0 | 276 | 775 |
| HY/S-60B/EN8BP | A+++ | 57 | 6.0 | 199 | 2455 | 5.2 | 165 | 3147 | 6.0 | 275 | 1165 |
| HY/S-80B/EN8BP | A+++ | 58 | 7.4 | 183 | 3529 | 6.4 | 160 | 3871 | 8.0 | 262 | 1607 |
| HY/S-100B/EN8BP | A+++ | 59 | 9.2 | 206 | 3617 | 7.6 | 162 | 4541 | 9.8 | 276 | 1877 |
| HY/S-120B/EN8BP | A+++ | 60 | 11.4 | 189 | 4958 | 10.3 | 152 | 6524 | 12.1 | 251 | 2544 |
| HY/S-140B/EN8BP | A+++ | 63 | 13.4 | 181 | 6069 | 12.1 | 152 | 7695 | 13.9 | 256 | 2865 |
| HY/S-160B/EN8BP | A+++ | 67 | 15.0 | 183 | 6692 | 13.8 | 157 | 8509 | 15.7 | 264 | 3138 |
| For medium-temperature application | | | | | | | | | | | |
| Model | Energy efficiency class | Unit sound power dB | 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 |
| | | | kW | % | kWh | kW | % | kWh | kW | % | kWh |
| HY/S-40B/EN8BP | A++ | 56 | 5.0 | 136 | 2375 | 4.0 | 115 | 3435 | 4.0 | 192 | 1113 |
| HY/S-60B/EN8BP | A++ | 58 | 5.8 | 138 | 3521 | 4.8 | 112 | 4225 | 5.9 | 191 | 1649 |
| HY/S-80B/EN8BP | A++ | 59 | 6.7 | 131 | 4162 | 5.5 | 101 | 5380 | 8.1 | 171 | 2270 |
| HY/S-100B/EN8BP | A++ | 60 | 7.7 | 139 | 4453 | 6.5 | 109 | 5604 | 8.6 | 190 | 2374 |
| HY/S-120B/EN8BP | A++ | 64 | 10.9 | 138 | 6390 | 9.8 | 111 | 8453 | 12.0 | 168 | 3756 |
| HY/S-140B/EN8BP | A++ | 65 | 12.7 | 137 | 7516 | 10.5 | 113 | 8828 | 13.5 | 175 | 3922 |
| HY/S-160B/EN8BP | A++ | 68 | 14.1 | 148 | 7723 | 11.6 | 116 | 9285 | 15.2 | 171 | 4669 |

Product fiche 1

Heat pump space heater

| Unit sound power (*) | Average climate low temperature application | | [dB] | 55 | 57 | 58 | 59 | 60 | 63 | 67 |
|--|--|--|-------|-------|-------|-------|-------|-------|-------|-------|
| | Average climate medium temperature application | | [dB] | 56 | 58 | 59 | 60 | 64 | 65 | 68 |
| Capacity of the back-up heater integrated in the unit | Psup back-up heater | | [kW] | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Energy efficiency class 35°C (Low temp. app.) | | - | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Space heating | Energy efficiency class 55°C (Medium temp. app.) | | - | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| | Average climate (Design temperature = -10°C) | | | | | | | | | |
| Space heating 35°C | Prated (declared heating capacity) @-10°C | | [kW] | 4.0 | 6.0 | 7.4 | 9.2 | 11.4 | 13.4 | 15.0 |
| | Seasonal space heating efficiency (η) | | [%] | 201 | 199 | 183 | 206 | 189 | 181 | 183 |
| | Annual energy consumption | | [kWh] | 1617 | 2455 | 3529 | 3617 | 4958 | 6069 | 6692 |
| Space heating 55°C | Prated (declared heating capacity) @-10°C | | [kW] | 5.0 | 5.8 | 6.7 | 7.7 | 10.9 | 12.7 | 14.1 |
| | Seasonal space heating efficiency (η) | | [%] | 136 | 138 | 131 | 139 | 138 | 137 | 148 |
| | Annual energy consumption | | [kWh] | 2375 | 3521 | 4162 | 4453 | 6390 | 7516 | 7723 |
| Part load conditions space heating average climate low temperature application | | | | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | | [kW] | 3.56 | 5.36 | 6.54 | 8.09 | 10.08 | 11.85 | 13.31 |
| | COPd (declared COP) | | - | 3.23 | 3.23 | 2.69 | 3.16 | 2.62 | 2.60 | 2.61 |
| | Cdh(degradation coefficient) | | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| (B) condition (2°C) | Pdh (declared heating capacity) | | [kW] | 2.35 | 3.43 | 4.18 | 5.16 | 6.20 | 7.16 | 8.24 |
| | COPd (declared COP) | | - | 5.01 | 4.58 | 4.51 | 4.78 | 4.47 | 4.43 | 4.42 |
| | Cdh(degradation coefficient) | | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| (C) condition (7°C) | Pdh (declared heating capacity) | | [kW] | 2.11 | 2.28 | 3.90 | 3.27 | 4.28 | 5.22 | 5.46 |
| | COPd (declared COP) | | - | 6.83 | 7.15 | 6.98 | 7.59 | 7.48 | 6.86 | 6.54 |
| | Cdh(degradation coefficient) | | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| (D) condition (12°C) | Pdh (declared heating capacity) | | [kW] | 2.58 | 2.57 | 4.78 | 3.92 | 5.17 | 6.40 | 7.08 |
| | COPd (declared COP) | | - | 10.50 | 11.36 | 10.09 | 11.97 | 11.08 | 10.30 | 9.91 |
| | Cdh(degradation coefficient) | | - | 0.99 | 0.99 | 0.99 | 0.98 | 0.98 | 0.99 | 0.99 |

Product fiche 2

| Heat pump space heater | | | | | | | | | | |
|---|--------------------------------------|-------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|--------|
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | Model | HY/S-40B/EN8BP | HY/S-60B/EN8BP | HY/S-80B/EN8BP | HY/S-100B/EN8BP | HY/S-120B/EN8BP | HY/S-140B/EN8BP | HY/S-160B/EN8BP | |
| | Pdh (declared heating capacity) | [kW] | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 |
| | COPd (declared COP) | - | 3.99 | 6.18 | 6.91 | 7.99 | 9.43 | 11.74 | 13.57 | |
| | WTOL (Heating water Operation Limit) | [°C] | 2.81 | 2.86 | 2.44 | 2.79 | 2.39 | 2.32 | 2.49 | |
| (F) Tbivalent temperature | Tbiv | [°C] | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 |
| | Pdh (declared heating capacity) | [kW] | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 |
| | COPd (declared COP) | - | 3.56 | 5.36 | 6.54 | 8.09 | 10.08 | 11.85 | 13.31 | |
| | Psup (@Tdesignh: -10°C) | [kW] | 3.23 | 3.23 | 2.69 | 3.16 | 2.62 | 2.60 | 2.61 | 1.48 |
| Part load conditions space heating average climate medium temperature application | | | | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity) | [kW] | 4.44 | 5.12 | 5.97 | 6.79 | 9.61 | 11.25 | 12.50 | |
| | COPd (declared COP) | - | 2.17 | 2.13 | 1.89 | 2.14 | 1.98 | 1.96 | 2.31 | |
| | Cdh(degradation coefficient) | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | |
| | Pdh (declared heating capacity) | [kW] | 2.69 | 3.13 | 3.94 | 4.29 | 6.17 | 7.70 | 7.75 | |
| (B) condition (2°C) | COPd (declared COP) | - | 3.41 | 3.38 | 3.24 | 3.41 | 3.25 | 3.30 | 3.33 | |
| | Cdh(degradation coefficient) | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | |
| | Pdh (declared heating capacity) | [kW] | 1.93 | 2.22 | 3.14 | 2.93 | 4.38 | 4.92 | 5.48 | |
| | COPd (declared COP) | - | 4.54 | 4.72 | 4.88 | 4.68 | 5.13 | 4.93 | 5.82 | |
| (C) condition (7°C) | Cdh(degradation coefficient) | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | |
| | Pdh (declared heating capacity) | [kW] | 2.45 | 2.42 | 3.77 | 3.90 | 5.49 | 6.09 | 6.97 | |
| | COPd (declared COP) | - | 7.47 | 7.64 | 5.88 | 7.73 | 8.49 | 7.98 | 9.54 | |
| | Cdh(degradation coefficient) | - | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | |
| (D) condition (12°C) | Tol (temperature operating limit) | [°C] | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 | -10.00 | |
| | Pdh (declared heating capacity) | [kW] | 4.23 | 4.40 | 5.17 | 6.61 | 9.12 | 10.81 | 10.28 | |
| | COPd (declared COP) | - | 1.80 | 1.82 | 1.56 | 1.72 | 1.81 | 1.77 | 1.93 | |
| | WTOL (Heating water Operation Limit) | [°C] | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | 60.00 | |
| (E) Tol (temperature operating limit) | Tbiv | [°C] | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 | -7.00 | |
| | Pdh (declared heating capacity) | [kW] | 4.44 | 5.12 | 5.97 | 6.79 | 9.61 | 11.25 | 12.50 | |
| | COPd (declared COP) | - | 2.17 | 2.13 | 1.89 | 2.14 | 1.98 | 1.96 | 2.31 | |
| | Psup (@Tdesignh: -10°C) | [kW] | 0.82 | 1.42 | 1.61 | 1.10 | 1.80 | 1.97 | 3.92 | |

Product fiche 3

Heat pump space heater

| Colder climate (Design temperature = -22°C) | | Model | HY/S-40B/EN8BP | HY/S-60B/EN8BP | HY/S-80B/EN8BP | HY/S-100B/EN8BP | HY/S-120B/EN8BP | HY/S-140B/EN8BP | HY/S-160B/EN8BP |
|---|--|-------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Space heating 35°C | Prated (declared heating capacity) @-22°C | [kW] | 4.0 | 5.2 | 6.4 | 7.6 | 10.3 | 12.1 | 13.8 |
| | Seasonal space heating efficiency (η) | [%] | 166 | 165 | 160 | 162 | 152 | 152 | 157 |
| | Annual energy consumption | [kWh] | 2325 | 3147 | 3871 | 4541 | 6524 | 7695 | 8509 |
| Space heating 55°C | Prated(declared heating capacity)@-22°C | [kW] | 4.0 | 4.8 | 5.5 | 6.5 | 9.8 | 10.5 | 11.6 |
| | Seasonal space heating efficiency (η) | [%] | 115 | 112 | 101 | 109 | 111 | 113 | 116 |
| | Annual energy consumption | [kWh] | 3435 | 4225 | 5380 | 5604 | 8453 | 8828 | 9285 |
| Part load conditions space heating colder climate low temperature application | | | | | | | | | |
| (A) condition (-7°C) | Pdh (declared heating capacity)@-22°C | [kW] | 3.51 | 3.87 | 4.23 | 4.59 | 6.71 | 7.56 | 8.31 |
| | COPd (declared COP) | - | 3.54 | 3.52 | 3.48 | 3.42 | 3.31 | 3.27 | 3.36 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (B) condition (2°C) | Pdh (declared heating capacity)@-22°C | [kW] | 2.01 | 2.31 | 2.55 | 2.82 | 4.48 | 4.85 | 5.23 |
| | COPd (declared COP) | - | 4.82 | 4.98 | 4.95 | 5.05 | 4.76 | 4.72 | 4.85 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh (declared heating capacity)@-22°C | [kW] | 1.19 | 1.38 | 1.58 | 1.86 | 3.05 | 3.06 | 3.63 |
| | COPd (declared COP) | - | 6.41 | 6.47 | 6.27 | 6.87 | 5.92 | 5.92 | 6.51 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh (declared heating capacity)@-22°C | [kW] | 1.37 | 1.41 | 1.59 | 1.62 | 3.56 | 3.58 | 3.36 |
| | COPd (declared COP) | - | 7.61 | 7.77 | 7.65 | 7.81 | 7.86 | 7.81 | 7.44 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 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 | -22.00 | -22.00 |
| | Pdh (declared heating capacity)@-22°C | [kW] | 3.01 | 3.25 | 3.73 | 4.25 | 6.45 | 7.19 | 8.65 |
| | COPd (declared COP) | - | 1.72 | 1.78 | 1.79 | 1.81 | 1.82 | 1.82 | 1.91 |
| (F) Tbivalent temperature | WTOL (Heating water Operation Limit) | [°C] | 51.00 | 51.00 | 51.00 | 51.00 | 51.00 | 51.00 | 51.00 |
| | Tbiv | [°C] | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
| | Pdh (declared heating capacity)@-22°C | [kW] | 3.31 | 4.25 | 5.23 | 6.21 | 8.39 | 9.83 | 11.23 |
| Supplementary capacity at P_design | COPd (declared COP) | - | 2.46 | 2.62 | 2.61 | 2.51 | 2.46 | 2.41 | 2.38 |
| | Psup (@Tdesignh: -22°C) | [kW] | 1.05 | 1.96 | 2.68 | 3.37 | 3.84 | 4.87 | 5.13 |

Product fiche 4

Heat pump space heater

Part load conditions space heating colder climate medium temperature application

| | Model | HY/S-40B/EN8BP | HY/S-60B/EN8BP | HY/S-80B/EN8BP | HY/S-100B/EN8BP | HY/S-120B/EN8BP | HY/S-140B/EN8BP | HY/S-160B/EN8BP |
|---|--|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| (A) condition (-7°C) | Pdh (declared heating capacity) | 2.81 | 3.01 | 3.51 | 4.06 | 6.31 | 6.55 | 7.26 |
| | COPd (declared COP) | 2.02 | 2.15 | 2.23 | 2.41 | 2.49 | 2.53 | 2.51 |
| | Cdh(degradation coefficient) | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| | Pdh (declared heating capacity) | 1.71 | 1.82 | 2.09 | 2.44 | 3.85 | 4.15 | 4.24 |
| (B) condition (2°C) | COPd (declared COP) | 2.79 | 2.95 | 3.08 | 3.33 | 3.42 | 3.51 | 3.64 |
| | Cdh(degradation coefficient) | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| | Pdh (declared heating capacity) | 1.21 | 1.29 | 1.36 | 1.57 | 2.64 | 2.96 | 2.88 |
| (C) condition (7°C) | COPd (declared COP) | 3.68 | 3.82 | 3.91 | 4.15 | 4.31 | 4.58 | 4.66 |
| | Cdh(degradation coefficient) | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| | Pdh (declared heating capacity) | 1.24 | 1.31 | 1.39 | 1.39 | 3.26 | 3.26 | 3.36 |
| (D) condition (12°C) | COPd (declared COP) | 5.51 | 5.65 | 5.62 | 5.66 | 6.12 | 6.12 | 6.16 |
| | Cdh(degradation coefficient) | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| | Tol (temperature operating limit) | -22.0 | -22.0 | -22.0 | -22.00 | -22.0 | -22.00 | -22.00 |
| | Pdh (declared heating capacity) | 2.01 | 2.19 | 2.38 | 2.52 | 3.85 | 3.86 | 4.79 |
| (E) Tol (temperature operating limit) | COPd (declared COP) | 1.01 | 1.02 | 1.05 | 1.09 | 1.03 | 1.03 | 1.13 |
| | WTOL (Heating water Operation Limit) | 51.00 | 51.00 | 51.00 | 51.00 | 51.00 | 51.00 | 51.00 |
| | Tbiv | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 | -15.00 |
| (F) Tbivalent temperature | Pdh (declared heating capacity) | 3.18 | 3.98 | 4.48 | 5.29 | 7.98 | 8.55 | 9.45 |
| | COPd (declared COP) | 1.51 | 1.71 | 1.71 | 1.84 | 1.75 | 1.69 | 1.77 |
| | Psup (@Tdesignh: -22°C) | 1.89 | 2.69 | 3.11 | 3.97 | 5.93 | 6.62 | 6.80 |
| Warmer climate (Design temperature = 2°C) | | | | | | | | |
| Space heating 35°C | Prated (declared heating capacity) @ 2°C | 4.0 | 6.0 | 8.0 | 9.8 | 12.1 | 13.9 | 15.7 |
| | Seasonalspaceheating efficiency(η) | 276 | 275 | 262 | 276 | 251 | 256 | 264 |
| | Annual energy consumption | 775 | 1165 | 1607 | 1877 | 2544 | 2865 | 3138 |
| Space heating 55°C | Prated (declared heating capacity) @ 2°C | 4.0 | 5.9 | 8.1 | 8.6 | 12.0 | 13.5 | 15.2 |
| | Seasonalspaceheating efficiency(η) | 192 | 191 | 171 | 190 | 168 | 175 | 171 |
| | Annual energy consumption | 1113 | 1649 | 2270 | 2374 | 3756 | 3922 | 4669 |

Product fiche 5

Heat pump space heater

Part load conditions space heating warmer climate low temperature application

| | Model | HY/S-40B/EN8BP | HY/S-60B/EN8BP | HY/S-80B/EN8BP | HY/S-100B/EN8BP | HY/S-120B/EN8BP | HY/S-140B/EN8BP | HY/S-160B/EN8BP |
|---------------------------------------|--------------------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| (B) condition (2°C) | Pdh(declared heating capacity) | [kW] | 3.97 | 5.88 | 7.38 | 9.35 | 11.51 | 13.37 |
| | COPd (declared COP) | - | 3.35 | 3.48 | 3.78 | 3.85 | 3.58 | 3.39 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| C) condition (7°C) | Pdh(declared heating capacity) | [kW] | 2.62 | 3.87 | 5.13 | 6.29 | 7.77 | 8.93 |
| | COPd (declared COP) | - | 5.78 | 5.92 | 5.97 | 6.21 | 5.86 | 5.82 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh(declared heating capacity) | [kW] | 2.11 | 2.17 | 2.54 | 2.62 | 3.51 | 3.71 |
| | COPd (declared COP) | - | 8.13 | 8.17 | 8.95 | 9.03 | 7.91 | 8.22 |
| | Cdh(degradation coefficient) | - | 0.90 | 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 | 2.00 |
| | Pdh(declared heating capacity) | [kW] | 3.97 | 5.88 | 7.38 | 9.35 | 11.51 | 13.37 |
| | COPd (declared COP) | - | 3.35 | 3.48 | 3.78 | 3.85 | 3.58 | 3.39 |
| | WTOL (Heating water Operation Limit) | [°C] | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 |
| | Tbiv | [°C] | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| (F) Tbivalent temperature | Pdh(declared heating capacity) | [kW] | 2.62 | 3.87 | 5.13 | 6.29 | 7.77 | 8.93 |
| | COPd (declared COP) | - | 5.78 | 5.92 | 5.97 | 6.21 | 5.86 | 5.82 |
| | Psup (@Tdesignh: 2°C) | [kW] | 0.11 | 0.14 | 0.60 | 0.43 | 0.58 | 0.52 |
| Supplementary capacity at P_design | | | | | | | | |

Part load conditions space heating warmer climate medium temperature application

| | | | | | | | | |
|----------------------|--------------------------------|------|------|------|------|------|-------|-------|
| (B) condition (2°C) | Pdh(declared heating capacity) | [kW] | 3.87 | 5.67 | 7.51 | 8.03 | 11.46 | 13.01 |
| | COPd (declared COP) | - | 2.35 | 2.47 | 2.55 | 2.57 | 2.19 | 2.18 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (C) condition (7°C) | Pdh(declared heating capacity) | [kW] | 2.58 | 3.79 | 5.21 | 5.53 | 7.72 | 9.06 |
| | COPd (declared COP) | - | 3.51 | 3.72 | 3.86 | 4.02 | 3.71 | 3.92 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| (D) condition (12°C) | Pdh(declared heating capacity) | [kW] | 2.02 | 2.17 | 2.32 | 2.55 | 3.68 | 4.06 |
| | COPd (declared COP) | - | 5.43 | 5.62 | 5.51 | 5.76 | 5.59 | 5.91 |
| | Cdh(degradation coefficient) | - | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |

Product fiche 6

Heat pump space heater

| | | Model | HY/S-40B/EN8BP | HY/S-60B/EN8BP | HY/S-80B/EN8BP | HY/S-100B/EN8BP | HY/S-120B/EN8BP | HY/S-140B/EN8BP | HY/S-160B/EN8BP |
|---------------------------------------|---|--------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| (E) Tol (temperature operating limit) | Tol (temperature operating limit) | [°C] | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| | Pdh (declared heating capacity) | [kW] | 3.87 | 5.67 | 7.51 | 8.03 | 11.46 | 13.01 | 14.67 |
| | COPd (declared COP) | - | 2.35 | 2.47 | 2.55 | 2.57 | 2.19 | 2.18 | 3.18 |
| | WTOL (Heating water Operation Limit) | [°C] | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 |
| (F) Tbivalent temperature | Tbiv | [°C] | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| | Pdh (declared heating capacity) | [kW] | 2.58 | 3.79 | 5.21 | 5.53 | 7.72 | 9.06 | 9.77 |
| | COPd (declared COP) | - | 3.51 | 3.72 | 3.86 | 4.02 | 3.71 | 3.92 | 3.69 |
| | Psup (@Tdesignh: 2°C) | [kW] | 0.14 | 0.23 | 0.59 | 0.57 | 0.55 | 1.09 | 0.53 |
| Product description | Air-to-water heat pump | Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | Water-to-water heat pump | Y/N | No | No | No | No | No | No | No |
| | Brine-to-water heat pump | Y/N | No | No | No | No | No | No | No |
| | Low -temperature heat pump | Y/N | No | No | No | No | No | No | No |
| | Equipped with a supplementary heater | Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | Heat pump combination heater | Y/N | No | No | No | No | No | No | No |
| | Rated airflow | [m³/h] | 2650 | 2650 | 3350 | 4050 | 4050 | 4650 | 4650 |
| | Rated water/brine flow (outdoor H/E) | | / | / | / | / | / | / | / |
| | Capacity control | - | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter | Inverter |
| | P(Power consumption Off mode) | [kW] | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| Other | P (Power consumption Thermostat off mode) | [kW] | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| | P(Power consumption Standby mode) | [kW] | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| | P(Power crankcase heater model) | [kW] | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 |
| | Q(Daily electricity consumption) | [kWh] | / | / | / | / | / | / | / |
| | Q(Daily fuel consumption) | [kWh] | / | / | / | / | / | / | / |

| Technical parameters | | | | | | | |
|--|------------------|-------|------|--|--------------------|-------|------|
| Model(s): | HY/S-40B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | COLDER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 4.0 | kW | Seasonal space heating energy efficiency | η_s | 115 | % |
| 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°C | Pdh | 2.8 | kW | Tj = -7°C | COPd | 2.02 | - |
| Tj = 2°C | Pdh | 1.7 | kW | Tj = 2°C | COPd | 2.79 | - |
| Tj = 7°C | Pdh | 1.2 | kW | Tj = 7°C | COPd | 3.68 | - |
| Tj = 12°C | Pdh | 1.2 | kW | Tj = 12°C | COPd | 5.51 | - |
| Tj = bivalent temperature | Pdh | 3.2 | kW | Tj = bivalent temperature | COPd | 1.51 | - |
| Tj = operating limit | Pdh | 2.0 | kW | Tj = operating limit | COPd | 1.01 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | -15 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -22 | °C |
| Cycling interval capacity for heating | P _{cyh} | - | kW | Cycling interval efficiency | COP _{cyh} | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | — | Heating water operating limit temperature | WTOL | 51 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | P _{off} | 0.010 | kW | Rated heat output (**) | P _{sup} | 1.9 | kW |
| Standby mode | P _{sb} | 0.010 | kW | | | | |
| Thermostat-off mode | P _{to} | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | P _{ck} | 0.040 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 2650 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | 56 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 3435 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{dec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | | HY/S-40B/EN8BP | | | | | |
| 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: | | NO/YES | | | | | |
| Heat pump combination heater: | | NO | | | | | |
| Declared climate condition: | | WARMER | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 4.0 | kW | Seasonal space heating energy efficiency | η_s | 192 | % |
| 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°C | Pdh | - | kW | Tj = -7°C | COPd | - | - |
| Tj = 2°C | Pdh | 3.9 | kW | Tj = 2°C | COPd | 2.35 | - |
| Tj = 7°C | Pdh | 2.6 | kW | Tj = 7°C | COPd | 3.51 | - |
| Tj = 12°C | Pdh | 2.0 | kW | Tj = 12°C | COPd | 5.43 | - |
| Tj = bivalent temperature | Pdh | 2.6 | kW | Tj = bivalent temperature | COPd | 3.51 | - |
| Tj = operating limit | Pdh | 3.9 | kW | Tj = operating limit | COPd | 2.35 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C |
| Cycling interval capacity for heating | Pcyc | - | kW | Cycling interval efficiency | COPcyc | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | — | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 0.1 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Pto | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 2650 | m³/h |
| Sound power level, indoors/outdoors | LWA | 56 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | QHE | 1113 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Qdec | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| Contact details | | | | | | | |
| (*) 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): | HY/S-60B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | COLDER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 4.8 | kW | Seasonal space heating energy efficiency | η_s | 112 | % |
| 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°C | Pdh | 3.0 | kW | Tj = -7°C | COPd | 2.15 | - |
| Tj = 2°C | Pdh | 1.8 | kW | Tj = 2°C | COPd | 2.95 | - |
| Tj = 7°C | Pdh | 1.3 | kW | Tj = 7°C | COPd | 3.82 | - |
| Tj = 12°C | Pdh | 1.3 | kW | Tj = 12°C | COPd | 5.65 | - |
| Tj = bivalent temperature | Pdh | 4.0 | kW | Tj = bivalent temperature | COPd | 1.71 | - |
| Tj = operating limit | Pdh | 2.2 | kW | Tj = operating limit | COPd | 1.02 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | -15 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -22 | °C |
| Cycling interval capacity for heating | P _{eych} | - | kW | Cycling interval efficiency | COP _{eyc} | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | — | Heating water operating limit temperature | WTOL | 51 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | P _{off} | 0.010 | kW | Rated heat output (**) | P _{sup} | 2.7 | kW |
| Standby mode | P _{sb} | 0.010 | kW | | | | |
| Thermostat-off mode | P _{lo} | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | P _{ck} | 0.040 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 2650 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | 58 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 4225 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{dec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | HY/S-60B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | WARMER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 5.9 | kW | Seasonal space heating energy efficiency | η_s | 191 | % |
| 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°C | Pdh | - | kW | Tj = -7°C | COPd | - | - |
| Tj = 2°C | Pdh | 5.7 | kW | Tj = 2°C | COPd | 2.47 | - |
| Tj = 7°C | Pdh | 3.8 | kW | Tj = 7°C | COPd | 3.72 | - |
| Tj = 12°C | Pdh | 2.2 | kW | Tj = 12°C | COPd | 5.62 | - |
| Tj = bivalent temperature | Pdh | 3.8 | kW | Tj = bivalent temperature | COPd | 3.72 | - |
| Tj = operating limit | Pdh | 5.7 | kW | Tj = operating limit | COPd | 2.47 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C |
| Cycling interval capacity for heating | Peych | - | kW | Cycling interval efficiency | COPeyc | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | - | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 0.2 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Plo | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.000 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 2650 | m³/h |
| Sound power level, indoors/outdoors | LWA | 58 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | QHE | 1649 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Qdec | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | HY/S-80B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | COLDER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 5.5 | kW | Seasonal space heating energy efficiency | η_s | 101 | % |
| 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°C | Pdh | 3.5 | kW | Tj = -7°C | COPd | 2.23 | - |
| Tj = 2°C | Pdh | 2.1 | kW | Tj = 2°C | COPd | 3.08 | - |
| Tj = 7°C | Pdh | 1.4 | kW | Tj = 7°C | COPd | 3.91 | - |
| Tj = 12°C | Pdh | 1.4 | kW | Tj = 12°C | COPd | 5.62 | - |
| Tj = bivalent temperature | Pdh | 4.5 | kW | Tj = bivalent temperature | COPd | 1.71 | - |
| Tj = operating limit | Pdh | 2.4 | kW | Tj = operating limit | COPd | 1.05 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | -15 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -22 | °C |
| Cycling interval capacity for heating | P _{psych} | - | kW | Cycling interval efficiency | COP _{cyc} | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | - | Heating water operating limit temperature | WTOL | 51 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 3.1 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Pto | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.040 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 3350 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | -59 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 5380 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{dec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | | | | HY/S-80B/EN8BP | | | | | |
| 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: | | | | NO/YES | | | | | |
| Heat pump combination heater: | | | | NO | | | | | |
| Declared climate condition: | | | | WARMER | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | | | |
| | | | | | | | | | |
| Item | | Symbol | Value | Unit | Item | | Symbol | Value | Unit |
| Rated heat output (*) | | Prated | 8.1 | kW | Seasonal space heating energy efficiency | | η s | 171 | % |
| 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°C | | Pdh | - | kW | Tj = -7°C | | COPd | - | - |
| Tj = 2°C | | Pdh | 7.51 | kW | Tj = 2°C | | COPd | 2.55 | - |
| Tj = 7°C | | Pdh | 5.21 | kW | Tj = 7°C | | COPd | 3.86 | - |
| Tj = 12°C | | Pdh | 2.32 | kW | Tj = 12°C | | COPd | 5.51 | - |
| Tj = bivalent temperature | | Pdh | 5.21 | kW | Tj = bivalent temperature | | COPd | 3.86 | - |
| Tj = operating limit | | Pdh | 7.51 | kW | Tj = operating limit | | COPd | 2.55 | - |
| For air-to-water heat pumps: Tj = -15°C | | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | | COPd | - | - |
| Bivalent temperature | | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | | TOL | 2 | °C |
| Cycling interval capacity for heating | | Ppsych | - | kW | Cycling interval efficiency | | COPcyc | - | - |
| Degradation co-efficient (**) | | Cdh | 0.90 | — | Heating water operating limit temperature | | WTOL | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | | | |
| Off mode | | Poff | 0.010 | kW | Rated heat output (**) | | Psup | 0.6 | kW |
| Standby mode | | Psb | 0.010 | kW | | | | | |
| Thermostat-off mode | | Pto | 0.007 | kW | | | | | |
| Crankcase heater mode | | Pck | 0.000 | kW | Type of energy input | | Electrical | | |
| | | | | | | | | | |
| Other items | | | | | | | | | |
| Capacity control | | variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | | - | 3350 | m³/h | |
| Sound power level, indoors/outdoors | | LWA | -59 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | | - | - | m³/h |
| Annual energy consumption | | QHE | 2270 | kWh | | | | | |
| | | | | | | | | | |
| For heat pump combination heater: | | | | | | | | | |
| Declared load profile | | - | | Water heating energyefficiency | | η_{wh} | - | % | |
| Daily electricity consumption | | Qdec | - | kWh | Daily fuel consumption | | Qfuel | - | kWh |
| Annual electricity consumption | | AEC | - | kWh | Annual fuel consumption | | AFC | - | GJ |
| | | | | | | | | | |
| Contact details | | | | | | | | | |
| (*) 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): | | | | HY/S-100B/EN8BP | | | |
| 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: | | | | NO/YES | | | |
| Heat pump combination heater: | | | | NO | | | |
| Declared climate condition: | | | | AVERAGE | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 7.7 | kW | Seasonal space heating energy efficiency | η_s | 139 | % |
| 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°C | Pdh | 6.8 | kW | Tj = -7°C | COPd | 2.14 | - |
| Tj = 2°C | Pdh | 4.3 | kW | Tj = 2°C | COPd | 3.41 | - |
| Tj = 7°C | Pdh | 2.9 | kW | Tj = 7°C | COPd | 4.68 | - |
| Tj = 12°C | Pdh | 3.9 | kW | Tj = 12°C | COPd | 7.73 | - |
| Tj = bivalent temperature | Pdh | 6.8 | kW | Tj = bivalent temperature | COPd | 2.14 | - |
| Tj = operating limit | Pdh | 6.6 | kW | Tj = operating limit | COPd | 1.72 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | Ppsych | - | kW | Cycling interval efficiency | COPcyc | - | - |
| Degradation co-efficient (**) | Cdh | 0.99 | — | Heating water operating limit temperature | WTOL | 60 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 1.1 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Pto | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.040 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4050 | m³/h |
| Sound power level, indoors/outdoors | LWA | ~60 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | QHE | 4453 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Qdec | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | HY/S-100B/EN8BP |
| 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: | NO/YES |
| Heat pump combination heater: | NO |
| Declared climate condition: | COLDER |

Parameters are declared for medium-temperature application.

| Item | Symbol | Value | Unit |
|--|--------|-------|------|
| Rated heat output (*) | Prated | 6.5 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | Pdh | 4.1 | kW |
| Tj = 2 °C | Pdh | 2.4 | kW |
| Tj = 7 °C | Pdh | 1.6 | kW |
| Tj = 12 °C | Pdh | 1.4 | kW |
| Tj = bivalent temperature | Pdh | 5.3 | kW |
| Tj = operating limit | Pdh | 2.5 | kW |
| For air-to-water heat pumps: Tj = -15 °C | Pdh | - | kW |
| Bivalent temperature | Tbiv | -15 | °C |
| Cycling interval capacity for heating | Pcyc | - | kW |
| Degradation co-efficient (**) | Cdh | 0.90 | — |
| Power consumption in modes other than active mode | | | |
| Off mode | Poff | 0.010 | kW |
| Standby mode | Psb | 0.010 | kW |
| Thermostat-off mode | Pto | 0.007 | kW |
| Crankcase heater mode | Pck | 0.040 | kW |

| Item | Symbol | Value | Unit |
|--|------------|-------|------|
| Seasonal space heating energy efficiency | η s | 109 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7 °C | COPd | 2.41 | - |
| Tj = 2 °C | COPd | 3.33 | - |
| Tj = 7 °C | COPd | 4.15 | - |
| Tj = 12 °C | COPd | 5.66 | - |
| Tj = bivalent temperature | COPd | 1.84 | - |
| Tj = operating limit | COPd | 1.09 | - |
| For air-to-water heat pumps: Tj = -15 °C | COPd | - | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | -22 | °C |
| Cycling interval efficiency | COPcyc | - | - |
| Heating water operating limit temperature | WTOL | 51 | °C |
| Supplementary heater | | | |
| Rated heat output (**) | Psup | 4.0 | kW |
| Type of energy input | Electrical | | |

| | | | | | | | |
|-------------------------------------|-----------------|------|-----|--|---|------|------|
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4050 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | -60 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 5604 | kWh | | | | |

For heat pump combination heater:

| | | | | | | | |
|--------------------------------|-----------|---|-----|--------------------------------|-------------|---|-----|
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q_{dec} | - | kWh | Daily fuel consumption | Q_{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |

Contact details

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output $Prated$ is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If Cdh is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

| Technical parameters | | | | | | | |
|---|------------------|-------|------|--|--------------------|-------|------|
| Model(s): | HY/S-100B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | WARMER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 8.6 | kW | Seasonal space heating energy efficiency | η_s | 190 | % |
| 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°C | Pdh | - | kW | Tj = -7°C | COPd | - | - |
| Tj = 2°C | Pdh | 8.0 | kW | Tj = 2°C | COPd | 2.57 | - |
| Tj = 7°C | Pdh | 5.5 | kW | Tj = 7°C | COPd | 4.02 | - |
| Tj = 12°C | Pdh | 2.6 | kW | Tj = 12°C | COPd | 5.76 | - |
| Tj = bivalent temperature | Pdh | 5.5 | kW | Tj = bivalent temperature | COPd | 4.02 | - |
| Tj = operating limit | Pdh | 8.0 | kW | Tj = operating limit | COPd | 2.57 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C |
| Cycling interval capacity for heating | P _{cyc} | - | kW | Cycling interval efficiency | COP _{cyc} | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | - | Heating water operating limit temperature | W _{TOL} | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | P _{off} | 0.010 | kW | Rated heat output (**) | P _{sup} | 0.6 | kW |
| Standby mode | P _{sb} | 0.010 | kW | Type of energy input | Electrical | | |
| Thermostat-off mode | P _{to} | 0.007 | kW | | | | |
| Crankcase heater mode | P _{ck} | 0.000 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4050 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | -/60 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 2374 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energy efficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{dec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | HY/S-120B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | WARMER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12.0 | kW | Seasonal space heating energy efficiency | η s | 168 | % |
| 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°C | Pdh | - | kW | Tj = -7°C | COPd | - | - |
| Tj = 2°C | Pdh | 11.5 | kW | Tj = 2°C | COPd | 2.19 | - |
| Tj = 7°C | Pdh | 7.7 | kW | Tj = 7°C | COPd | 3.71 | - |
| Tj = 12°C | Pdh | 3.7 | kW | Tj = 12°C | COPd | 5.59 | - |
| Tj = bivalent temperature | Pdh | 7.7 | kW | Tj = bivalent temperature | COPd | 3.71 | - |
| Tj = operating limit | Pdh | 11.5 | kW | Tj = operating limit | COPd | 2.19 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C |
| Cycling interval capacity for heating | Pcyc | - | kW | Cycling interval efficiency | COPcyc | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | — | Heating water operating limit temperature | WtOL | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 0.6 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Pto | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.000 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4050 | m³/h |
| Sound power level, indoors/outdoors | LWA | -64 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | QHE | 3756 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | ηwh | - | % |
| Daily electricity consumption | Qdec | - | kWh | Daily fuel consumption | Qfuel | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | HY/S-140B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | AVERAGE | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 12.7 | kW | Seasonal space heating energy efficiency | η_s | 137 | % |
| 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°C | Pdh | 11.3 | kW | Tj = -7°C | COPd | 1.96 | - |
| Tj = 2°C | Pdh | 7.7 | kW | Tj = 2°C | COPd | 3.30 | - |
| Tj = 7°C | Pdh | 4.9 | kW | Tj = 7°C | COPd | 4.93 | - |
| Tj = 12°C | Pdh | 6.1 | kW | Tj = 12°C | COPd | 7.98 | - |
| Tj = bivalent temperature | Pdh | 11.3 | kW | Tj = bivalent temperature | COPd | 1.96 | - |
| Tj = operating limit | Pdh | 10.8 | kW | Tj = operating limit | COPd | 1.77 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | -7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | P _{psych} | - | kW | Cycling interval efficiency | COP _{cyc} | - | - |
| Degradation co-efficient (**) | Cdh | 0.99 | — | Heating water operating limit temperature | WTOL | 60 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 2.0 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Pto | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.040 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4650 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | -65 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 7516 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{dec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | HY/S-140B/EN8BP |
| 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: | NO/YES |
| Heat pump combination heater: | NO |
| Declared climate condition: | COLDER |

Parameters are declared for medium-temperature application.

| Item | Symbol | Value | Unit |
|--|--------|-------|------|
| Rated heat output (*) | Prated | 10.5 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7°C | Pdh | 6.6 | kW |
| Tj = 2°C | Pdh | 4.2 | kW |
| Tj = 7°C | Pdh | 3.0 | kW |
| Tj = 12°C | Pdh | 3.3 | kW |
| Tj = bivalent temperature | Pdh | 8.5 | kW |
| Tj = operating limit | Pdh | 3.9 | kW |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW |
| Bivalent temperature | Tbiv | -15 | °C |
| Cycling interval capacity for heating | Pcyc | - | kW |
| Degradation co-efficient (**) | Cdh | 0.90 | — |
| Power consumption in modes other than active mode | | | |
| Off mode | Poff | 0.010 | kW |
| Standby mode | Psb | 0.010 | kW |
| Thermostat-off mode | Pto | 0.007 | kW |
| Crankcase heater mode | Pck | 0.040 | kW |

| Item | Symbol | Value | Unit |
|--|------------|-------|------|
| Seasonal space heating energy efficiency | η s | 113 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = -7°C | COPd | 2.53 | - |
| Tj = 2°C | COPd | 3.51 | - |
| Tj = 7°C | COPd | 4.58 | - |
| Tj = 12°C | COPd | 6.12 | - |
| Tj = bivalent temperature | COPd | 1.69 | - |
| Tj = operating limit | COPd | 1.03 | - |
| For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| For air-to-water heat pumps: Operation limit temperature | TOL | -22 | °C |
| Cycling interval efficiency | COPcyc | - | - |
| Heating water operating limit temperature | WTOL | 51 | °C |
| Supplementary heater | | | |
| Rated heat output (**) | Psup | 6.6 | kW |
| Type of energy input | Electrical | | |

| | | | | | | | |
|-------------------------------------|-----------------|------|-----|--|---|------|------|
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4650 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | -65 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 8828 | kWh | | | | |

For heat pump combination heater:

| | | | | | | | |
|--------------------------------|-----------|---|-----|--------------------------------|-------------|---|-----|
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q_{dec} | - | kWh | Daily fuel consumption | Q_{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |

| | |
|-----------------|--|
| Contact details | |
|-----------------|--|

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{design,h}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If Cdh is not determined by measurement then the default degradation coefficient is $C_{dh} = 0.9$.

| Technical parameters | | | | | | | |
|--|------------------|-------|------|--|-------------------|-------|------|
| Model(s): | HY/S-140B/EN8BP | | | | | | |
| 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: | NO/YES | | | | | | |
| Heat pump combination heater: | NO | | | | | | |
| Declared climate condition: | WARMER | | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | |
| | | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 13.5 | kW | Seasonal space heating energy efficiency | η_s | 175 | % |
| 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°C | Pdh | - | kW | Tj = -7°C | COPd | - | - |
| Tj = 2°C | Pdh | 13.0 | kW | Tj = 2°C | COPd | 2.18 | - |
| Tj = 7°C | Pdh | 9.1 | kW | Tj = 7°C | COPd | 3.92 | - |
| Tj = 12°C | Pdh | 4.1 | kW | Tj = 12°C | COPd | 5.91 | - |
| Tj = bivalent temperature | Pdh | 9.1 | kW | Tj = bivalent temperature | COPd | 3.92 | - |
| Tj = operating limit | Pdh | 13.0 | kW | Tj = operating limit | COPd | 2.18 | - |
| For air-to-water heat pumps: Tj = -15°C | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | COPd | - | - |
| Bivalent temperature | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | 2 | °C |
| Cycling interval capacity for heating | Pcyh | - | kW | Cycling interval efficiency | COP _{cy} | - | - |
| Degradation co-efficient (**) | Cdh | 0.90 | — | Heating water operating limit temperature | WTOL | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | Poff | 0.010 | kW | Rated heat output (**) | Psup | 1.1 | kW |
| Standby mode | Psb | 0.010 | kW | | | | |
| Thermostat-off mode | Pto | 0.007 | kW | Type of energy input | Electrical | | |
| Crankcase heater mode | Pck | 0.000 | kW | | | | |
| | | | | | | | |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | - | 4650 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | -/65 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h |
| Annual energy consumption | Q _{HE} | 3922 | kWh | | | | |
| | | | | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | - | | | Water heating energyefficiency | η_{wh} | - | % |
| Daily electricity consumption | Q _{dec} | - | kWh | Daily fuel consumption | Q _{fuel} | - | kWh |
| Annual electricity consumption | AEC | - | kWh | Annual fuel consumption | AFC | - | GJ |
| | | | | | | | |
| Contact details | | | | | | | |
| (*) 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): | | | | HY/S-160B/EN8BP | | | | | |
| 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: | | | | NO/YES | | | | | |
| Heat pump combination heater: | | | | NO | | | | | |
| Declared climate condition: | | | | WARMER | | | | | |
| Parameters are declared for medium-temperature application. | | | | | | | | | |
| | | | | | | | | | |
| Item | | Symbol | Value | Unit | Item | | Symbol | Value | Unit |
| Rated heat output (*) | | Prated | 15.2 | kW | Seasonal space heating energy efficiency | | η_s | 171 | % |
| 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°C | | Pdh | - | kW | Tj = -7°C | | COPd | - | - |
| Tj = 2°C | | Pdh | 14.7 | kW | Tj = 2°C | | COPd | 3.18 | - |
| Tj = 7°C | | Pdh | 9.8 | kW | Tj = 7°C | | COPd | 3.69 | - |
| Tj = 12°C | | Pdh | 4.0 | kW | Tj = 12°C | | COPd | 5.73 | - |
| Tj = bivalent temperature | | Pdh | 9.8 | kW | Tj = bivalent temperature | | COPd | 3.69 | - |
| Tj = operating limit | | Pdh | 14.7 | kW | Tj = operating limit | | COPd | 3.18 | - |
| For air-to-water heat pumps: Tj = -15°C | | Pdh | - | kW | For air-to-water heat pumps: Tj = -15°C | | COPd | - | - |
| Bivalent temperature | | Tbiv | 7 | °C | For air-to-water heat pumps: Operation limit temperature | | TOL | 2 | °C |
| Cycling interval capacity for heating | | Pcyc | - | kW | Cycling interval efficiency | | COPcyc | - | - |
| Degradation co-efficient (**) | | Cdh | 0.90 | — | Heating water operating limit temperature | | WTOL | 65 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | | | |
| Off mode | | Poff | 0.010 | kW | Rated heat output (**) | | Psup | 0.5 | kW |
| Standby mode | | Psb | 0.010 | kW | Type of energy input | | Electrical | | |
| Thermostat-off mode | | Pto | 0.007 | kW | | | | | |
| Crankcase heater mode | | Pck | 0.000 | kW | | | | | |
| | | | | | | | | | |
| Other items | | | | | | | | | |
| Capacity control | | variable | | For air-to-water heat pumps: Rated air flow rate, outdoors | | - | 4650 | m³/h | |
| Sound power level, indoors/outdoors | | LWA | -68 | dB | For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | | - | - | m³/h |
| Annual energy consumption | | QHE | 4669 | kWh | | | | | |
| | | | | | | | | | |
| For heat pump combination heater: | | | | | | | | | |
| Declared load profile | | - | | Water heating energyefficiency | | η_{wh} | - | % | |
| Daily electricity consumption | | Qdec | - | kWh | Daily fuel consumption | | Qfuel | - | kWh |
| Annual electricity consumption | | AEC | - | kWh | Annual fuel consumption | | AFC | - | GJ |
| | | | | | | | | | |
| Contact details | | | | | | | | | |
| | | | | | | | | | |
| (*) 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

| | | | | | | | |
|---|---------------|-----------------------------|----------------------------------|---|--------------|-------|------|
| Model(s): | | | | HY/S-40B/EN8BP | | | |
| 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 | $P_{rated,c}$ | 4.3 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 203 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 4.3 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 3.24 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 3.0 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 4.24 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 2.3 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 5.83 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 1.8 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 8.47 | - |
| | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
| Power consumption in modes other than "active mode" | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 2650 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | 56 | dB | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | | | |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |
| Standard rating conditions used | | Low temperature application | | | | | |
| Contact details | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | |

Information requirements

| | | | | | | | | |
|---|---------------|--------------------------------|----------------------------------|--------------------------------------|---|--------------|-------|------|
| Model(s): | | | | HY/S-40B/EN8BP | | | | |
| 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 | $P_{rated,c}$ | 4.0 | kW | | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 339 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 4.0 | kW | | $T_j=+35^{\circ}\text{C}$ | EER_d | 5.19 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 3.3 | kW | | $T_j=+30^{\circ}\text{C}$ | EER_d | 6.97 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 2.2 | kW | | $T_j=+25^{\circ}\text{C}$ | EER_d | 9.79 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 2.5 | kW | | $T_j=+20^{\circ}\text{C}$ | EER_d | 15.38 | - |
| | | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | | |
| Power consumption in modes other than "active mode" | | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | | |
| Capacity control | variable | | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 2650 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | 56 | dB | | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | | | | |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | | |
| Standard rating conditions used | | Medium temperature application | | | | | | |
| Contact details | | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | | |

Information requirements

| | |
|---|--------------------------------------|
| Model(s): | HY/S-60B/EN8BP |
| 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 | $P_{rated,c}$ | 6.3 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 207 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 6.3 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 3.15 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 4.7 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 4.29 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 3.1 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 6.11 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 1.7 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 8.93 | - |

| | | | | | | | |
|---|----------|-----|---|--|--|--|--|
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
|---|----------|-----|---|--|--|--|--|

Power consumption in modes other than "active mode"

| | | | | | | | |
|--------------------|-----------|-------|----|-----------------------|----------|-------|----|
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |

Other items

| | | | | | | | |
|--|----------|-----|----------------------------------|--|---|------|------|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 2650 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | 58 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | For water / brine-to-water chillers:Ratedbrine or water flow rate, outdoor side heat exchanger | - | - | m³/h |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |

| | |
|---------------------------------|-----------------------------|
| Standard rating conditions used | Low temperature application |
|---------------------------------|-----------------------------|

| | |
|-----------------|--|
| Contact details | |
|-----------------|--|

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

| | |
|---|--------------------------------------|
| Model(s): | HY/S-60B/EN8BP |
| 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 | $P_{rated,c}$ | 6.2 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 347 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 6.2 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 4.91 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 4.7 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 6.77 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 2.9 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 10.47 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 2.4 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 16.59 | - |

| | | | | | | | |
|---|----------|-----|---|--|--|--|--|
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
|---|----------|-----|---|--|--|--|--|

Power consumption in modes other than "active mode"

| | | | | | | | |
|--------------------|-----------|-------|----|-----------------------|----------|-------|----|
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |

Other items

| | | | | | | | |
|--|----------|-----|----------------------------------|---|---|------|-------------------|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 2650 | m ³ /h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | 58 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m ³ /h |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |

| | |
|---------------------------------|--------------------------------|
| Standard rating conditions used | Medium temperature application |
|---------------------------------|--------------------------------|

| | |
|-----------------|--|
| Contact details | |
|-----------------|--|

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

| | |
|---|--------------------------------------|
| Model(s): | HY/S-80B/EN8BP |
| 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 | $P_{rated,c}$ | 7.6 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 203 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 7.6 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 2.97 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 5.9 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 4.33 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 3.9 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 6.57 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 3.1 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 10.26 | - |

| | | | | | | | |
|---|----------|-----|---|--|--|--|--|
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
|---|----------|-----|---|--|--|--|--|

Power consumption in modes other than "active mode"

| | | | | | | | |
|--------------------|-----------|-------|----|-----------------------|----------|-------|----|
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |

Other items

| | | | | | | | |
|--|----------|------|----------------------------------|---|---|------|------|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 3350 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/59 | dB | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | | | |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |

| | |
|---------------------------------|-----------------------------|
| Standard rating conditions used | Low temperature application |
|---------------------------------|-----------------------------|

| | |
|-----------------|--|
| Contact details | |
|-----------------|--|

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

| | | | | | | | |
|---|---------------|--------------------------------|--------------------------------|---|--------------|-------|-----------------------|
| Model(s): | | | | HY/S-80B/EN8BP | | | |
| 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 | $P_{rated,c}$ | 8.2 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 329 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 8.2 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 4.65 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 6.1 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 6.82 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 3.8 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 11.24 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 3.8 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 17.47 | - |
| | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
| Power consumption in modes other than "active mode" | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 3350 | m^3/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/59 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m^3/h |
| GWP of the refrigerant | - | 675 | kg CO_2 eq (100years) | | | | |
| Standard rating conditions used | | Medium temperature application | | | | | |
| Contact details | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | |

Information requirements

| | | | | | | | |
|---|---------------|-----------------------------|--------------------------------|---|--------------|-------|-----------------------|
| Model(s): | | | | HY/S-100B/EN8BP | | | |
| 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 | $P_{rated,c}$ | 8.8 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 183 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 8.8 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 2.96 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 8.6 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 4.04 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 4.1 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 5.43 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 2.3 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 6.11 | - |
| | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
| Power consumption in modes other than "active mode" | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4050 | m^3/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/60 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m^3/h |
| GWP of the refrigerant | - | 675 | kg CO_2 eq (100years) | | | | |
| Standard rating conditions used | | Low temperature application | | | | | |
| Contact details | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | |

Information requirements

| | | | | | | | | |
|---|--------------------------------------|--------------------------------|----------------------------------|--|---|------------------|-------|------|
| Model(s): | HY/S-100B/EN8BP | | | | | | | |
| 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 | $P_{rated,c}$ | 10.0 | kW | | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 326 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 10.0 | kW | | $T_j=+35^{\circ}\text{C}$ | EER _d | 4.14 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 7.7 | kW | | $T_j=+30^{\circ}\text{C}$ | EER _d | 6.23 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 5.0 | kW | | $T_j=+25^{\circ}\text{C}$ | EER _d | 9.99 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 3.1 | kW | | $T_j=+20^{\circ}\text{C}$ | EER _d | 16.48 | - |
| | | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | | |
| Power consumption in modes other than "active mode" | | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | | |
| Capacity control | variable | | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4050 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/60 | dB | | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | | | | |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | | |
| Standard rating conditions used | | Medium temperature application | | | | | | |
| Contact details | | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | | |

Information requirements

| | |
|---|--------------------------------------|
| Model(s): | HY/S-120B/EN8BP |
| 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 | $P_{rated,c}$ | 11.6 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 197 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 11.6 | kW | $T_j=+35^{\circ}\text{C}$ | EER _d | 2.80 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 9.2 | kW | $T_j=+30^{\circ}\text{C}$ | EER _d | 4.14 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 6.0 | kW | $T_j=+25^{\circ}\text{C}$ | EER _d | 6.33 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 4.9 | kW | $T_j=+20^{\circ}\text{C}$ | EER _d | 9.25 | - |

| | | | | | | | |
|---|----------|-----|---|--|--|--|--|
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
|---|----------|-----|---|--|--|--|--|

Power consumption in modes other than "active mode"

| | | | | | | | |
|--------------------|-----------|-------|----|-----------------------|----------|-------|----|
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |

Other items

| | | | | | | | |
|--|----------|------|----------------------------------|--|---|------|------|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4050 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/64 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | For water / brine-to-water chillers:Ratedbrine or water flow rate, outdoor side heat exchanger | - | - | m³/h |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |

| | | | | | | | |
|---------------------------------|-----------------------------|--|--|--|--|--|--|
| Standard rating conditions used | Low temperature application | | | | | | |
| Contact details | | | | | | | |

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

| | | | | | | | | |
|---|--------------------------------------|--------------------------------|----------------------------------|--|---|------------------|-------|------|
| Model(s): | HY/S-120B/EN8BP | | | | | | | |
| 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 | $P_{rated,c}$ | 11.9 | kW | | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 323 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 11.9 | kW | | $T_j=+35^{\circ}\text{C}$ | EER _d | 4.36 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 8.9 | kW | | $T_j=+30^{\circ}\text{C}$ | EER _d | 6.53 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 5.7 | kW | | $T_j=+25^{\circ}\text{C}$ | EER _d | 11.25 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 6.1 | kW | | $T_j=+20^{\circ}\text{C}$ | EER _d | 14.95 | - |
| | | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | | |
| Power consumption in modes other than "active mode" | | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | | |
| Capacity control | variable | | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4050 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/64 | dB | | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | | |
| Standard rating conditions used | | Medium temperature application | | | | | | |
| Contact details | | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | | |

Information requirements

| | |
|---|--------------------------------------|
| Model(s): | HY/S-140B/EN8BP |
| 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 | $P_{rated,c}$ | 14.3 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 187 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 14.3 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 2.80 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 10.7 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 4.17 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 7.1 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 6.01 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 5.5 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 8.61 | - |

| | | | | | | | |
|---|----------|-----|---|--|--|--|--|
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
|---|----------|-----|---|--|--|--|--|

Power consumption in modes other than "active mode"

| | | | | | | | |
|--------------------|-----------|-------|----|-----------------------|----------|-------|----|
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |

Other items

| | | | | | | | |
|--|----------|------|----------------------------------|---|---|------|------|
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4650 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/65 | dB | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |

| | |
|---------------------------------|-----------------------------|
| Standard rating conditions used | Low temperature application |
|---------------------------------|-----------------------------|

| | |
|-----------------|--|
| Contact details | |
|-----------------|--|

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

| | | | | | | | | |
|---|--------------------------------------|--------------------------------|----------------------------------|--|---|------------------|-------|------|
| Model(s): | HY/S-140B/EN8BP | | | | | | | |
| 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 | $P_{rated,c}$ | 14.1 | kW | | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 266 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 14.1 | kW | | $T_j=+35^{\circ}\text{C}$ | EER _d | 4.56 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 10.4 | kW | | $T_j=+30^{\circ}\text{C}$ | EER _d | 6.09 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 7.2 | kW | | $T_j=+25^{\circ}\text{C}$ | EER _d | 8.73 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 7.3 | kW | | $T_j=+20^{\circ}\text{C}$ | EER _d | 13.20 | - |
| | | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | | |
| Power consumption in modes other than "active mode" | | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | | |
| Capacity control | variable | | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4650 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/65 | dB | | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | | | | |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | | |
| Standard rating conditions used | | Medium temperature application | | | | | | |
| Contact details | | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | | |

Information requirements

| | | | | | | | | |
|---|--------------------------------------|-----------------------------|--------------------------------|--|---|--------------|-------|-----------------------|
| Model(s): | HY/S-160B/EN8BP | | | | | | | |
| 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 | $P_{rated,c}$ | 16.0 | kW | | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 182 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 16.0 | kW | | $T_j=+35^{\circ}\text{C}$ | EER_d | 2.61 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 12.9 | kW | | $T_j=+30^{\circ}\text{C}$ | EER_d | 3.72 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 7.7 | kW | | $T_j=+25^{\circ}\text{C}$ | EER_d | 5.71 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 5.5 | kW | | $T_j=+20^{\circ}\text{C}$ | EER_d | 8.02 | - |
| | | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | | |
| Power consumption in modes other than "active mode" | | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | | |
| Capacity control | variable | | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4650 | m^3/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | | dB | | | | | |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m^3/h |
| GWP of the refrigerant | - | 675 | kg CO_2 eq (100years) | | | | | |
| Standard rating conditions used | | Low temperature application | | | | | | |
| Contact details | | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | | |

Information requirements

| | | | | | | | |
|---|---------------|--------------------------------|----------------------------------|---|--------------|-------|------|
| Model(s): | | | | HY/S-160B/EN8BP | | | |
| 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 | $P_{rated,c}$ | 15.7 | kW | Seasonal space cooling energy efficiency | $\eta_{s,c}$ | 257 | % |
| Declared cooling capacity for part load at given outdoor temperature T_j | | | | Declared energy efficiency ratio for part load at given outdoor temperature T_j | | | |
| $T_j=+35^{\circ}\text{C}$ | P_{dc} | 15.7 | kW | $T_j=+35^{\circ}\text{C}$ | EER_d | 3.90 | - |
| $T_j=+30^{\circ}\text{C}$ | P_{dc} | 12.0 | kW | $T_j=+30^{\circ}\text{C}$ | EER_d | 5.52 | - |
| $T_j=+25^{\circ}\text{C}$ | P_{dc} | 7.7 | kW | $T_j=+25^{\circ}\text{C}$ | EER_d | 8.29 | - |
| $T_j=+20^{\circ}\text{C}$ | P_{dc} | 6.9 | kW | $T_j=+20^{\circ}\text{C}$ | EER_d | 12.07 | - |
| | | | | | | | |
| Degradationco-efficient for chillers(*) | C_{dc} | 0.9 | - | | | | |
| Power consumption in modes other than "active mode" | | | | | | | |
| Off mode | P_{OFF} | 0.010 | kW | Crankcase heater mode | P_{CK} | 0.000 | kW |
| Thermosat-off mode | P_{TO} | 0.007 | kW | Standby mode | P_{SB} | 0.010 | kW |
| Other items | | | | | | | |
| Capacity control | variable | | | For air-to-water comfort chillers: air flow rate, outdoor measured | - | 4650 | m³/h |
| Soundpowerlevel, indoors /outdoors | L_{WA} | -/68 | dB | For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger | - | - | m³/h |
| Emissions of nitrogen oxides(ifapplicable) | NO_x | - | mg/kWh input GCV | | | | |
| GWP of the refrigerant | - | 675 | kg CO ₂ eq (100years) | | | | |
| Standard rating conditions used | | Medium temperature application | | | | | |
| Contact details | | | | | | | |
| (*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9. | | | | | | | |

| Condition (°C) | Model | Capacity (kW) | Power input (kW) | EER/COP |
|---|-----------------|---------------|------------------|---------|
| Ambient Temperature: 35/24 Water Temperature: 12/7 | HY/S-40B/EN8BP | 4.3 | 1.32 | 3.24 |
| | HY/S-60B/EN8BP | 6.3 | 2.00 | 3.14 |
| | HY/S-80B/EN8BP | 7.6 | 2.55 | 2.97 |
| | HY/S-100B/EN8BP | 8.8 | 2.97 | 2.96 |
| | HY/S-120B/EN8BP | 11.6 | 4.14 | 2.80 |
| | HY/S-140B/EN8BP | 14.3 | 5.11 | 2.80 |
| | HY/S-160B/EN8BP | 16.0 | 6.12 | 2.61 |
| Ambient Temperature: 35/24 Water Temperature: 23/18 | HY/S-40B/EN8BP | 4.0 | 0.77 | 5.19 |
| | HY/S-60B/EN8BP | 6.2 | 1.26 | 4.91 |
| | HY/S-80B/EN8BP | 8.2 | 1.75 | 4.65 |
| | HY/S-100B/EN8BP | 10.0 | 2.42 | 4.14 |
| | HY/S-120B/EN8BP | 11.9 | 2.72 | 4.36 |
| | HY/S-140B/EN8BP | 14.1 | 3.10 | 4.56 |
| | HY/S-160B/EN8BP | 15.7 | 4.03 | 3.90 |
| Ambient Temperature: 7/6 Water Temperature: 30/35 | HY/S-40B/EN8BP | 4.0 | 0.75 | 5.25 |
| | HY/S-60B/EN8BP | 6.0 | 1.17 | 5.17 |
| | HY/S-80B/EN8BP | 7.9 | 1.76 | 4.50 |
| | HY/S-100B/EN8BP | 10.2 | 2.04 | 5.01 |
| | HY/S-120B/EN8BP | 12.1 | 2.57 | 4.70 |
| | HY/S-140B/EN8BP | 14.5 | 2.99 | 4.84 |
| | HY/S-160B/EN8BP | 15.9 | 3.42 | 4.65 |
| Ambient Temperature: 2/1 Water Temperature: 30/35 | HY/S-40B/EN8BP | 4.9 | 1.18 | 4.12 |
| | HY/S-60B/EN8BP | 5.9 | 1.46 | 4.06 |
| | HY/S-80B/EN8BP | 7.2 | 1.91 | 3.74 |
| | HY/S-100B/EN8BP | 8.2 | 2.12 | 3.87 |
| | HY/S-120B/EN8BP | 9.3 | 2.47 | 3.78 |
| | HY/S-140B/EN8BP | 11.4 | 3.37 | 3.37 |
| | HY/S-160B/EN8BP | 13.3 | 3.89 | 3.41 |
| Ambient Temperature: -7/-8 Water Temperature: 30/35 | HY/S-40B/EN8BP | 4.7 | 1.52 | 3.07 |
| | HY/S-60B/EN8BP | 6.2 | 2.02 | 3.06 |
| | HY/S-80B/EN8BP | 7.0 | 2.39 | 2.92 |
| | HY/S-100B/EN8BP | 8.3 | 2.75 | 3.00 |
| | HY/S-120B/EN8BP | 10.1 | 3.49 | 2.88 |
| | HY/S-140B/EN8BP | 12.1 | 4.63 | 2.61 |
| | HY/S-160B/EN8BP | 13.2 | 5.18 | 2.55 |
| Ambient Temperature: 7/6 Water Temperature: 40/45 | HY/S-40B/EN8BP | 4.2 | 1.11 | 3.77 |
| | HY/S-60B/EN8BP | 6.0 | 1.63 | 3.70 |
| | HY/S-80B/EN8BP | 8.3 | 2.61 | 3.18 |
| | HY/S-100B/EN8BP | 10.2 | 2.79 | 3.65 |
| | HY/S-120B/EN8BP | 12.1 | 3.36 | 3.60 |
| | HY/S-140B/EN8BP | 14.5 | 3.89 | 3.72 |
| | HY/S-160B/EN8BP | 15.9 | 4.63 | 3.43 |
| Ambient Temperature: 2/1 Water Temperature: 40/45 | HY/S-40B/EN8BP | 4.7 | 1.54 | 3.05 |
| | HY/S-60B/EN8BP | 6.0 | 1.85 | 3.25 |
| | HY/S-80B/EN8BP | 7.4 | 2.51 | 2.95 |
| | HY/S-100B/EN8BP | 8.0 | 2.57 | 3.09 |
| | HY/S-120B/EN8BP | 10.8 | 3.75 | 2.88 |
| | HY/S-140B/EN8BP | 11.8 | 4.42 | 2.67 |
| | HY/S-160B/EN8BP | 12.9 | 4.64 | 2.77 |
| Ambient Temperature: -7/-8 Water Temperature: 40/45 | HY/S-40B/EN8BP | 4.3 | 1.84 | 2.32 |
| | HY/S-60B/EN8BP | 5.6 | 2.27 | 2.45 |
| | HY/S-80B/EN8BP | 6.5 | 2.85 | 2.28 |
| | HY/S-100B/EN8BP | 7.4 | 3.02 | 2.43 |
| | HY/S-120B/EN8BP | 10.1 | 4.59 | 2.20 |
| | HY/S-140B/EN8BP | 11.8 | 5.42 | 2.17 |
| | HY/S-160B/EN8BP | 12.8 | 6.07 | 2.11 |
| Ambient Temperature: 7/6 Water Temperature: 47/55 | HY/S-40B/EN8BP | 4.1 | 1.46 | 2.84 |
| | HY/S-60B/EN8BP | 6.1 | 2.13 | 2.86 |
| | HY/S-80B/EN8BP | 7.7 | 2.98 | 2.58 |
| | HY/S-100B/EN8BP | 9.6 | 3.22 | 2.98 |
| | HY/S-120B/EN8BP | 12.3 | 4.44 | 2.77 |
| | HY/S-140B/EN8BP | 13.8 | 4.42 | 3.12 |
| | HY/S-160B/EN8BP | 15.8 | 6.12 | 2.58 |
| Ambient Temperature: 2/1 Water Temperature: 47/55 | HY/S-40B/EN8BP | 4.5 | 1.70 | 2.64 |
| | HY/S-60B/EN8BP | 5.0 | 2.07 | 2.39 |
| | HY/S-80B/EN8BP | 7.1 | 3.01 | 2.36 |
| | HY/S-100B/EN8BP | 8.1 | 3.32 | 2.45 |
| | HY/S-120B/EN8BP | 11.4 | 4.69 | 2.42 |
| | HY/S-140B/EN8BP | 12.6 | 5.45 | 2.30 |
| | HY/S-160B/EN8BP | 13.6 | 5.85 | 2.32 |
| Ambient Temperature: -7/-8 Water Temperature: 47/55 | HY/S-40B/EN8BP | 4.0 | 2.07 | 1.92 |
| | HY/S-60B/EN8BP | 5.3 | 2.60 | 2.04 |
| | HY/S-80B/EN8BP | 6.1 | 3.10 | 1.95 |
| | HY/S-100B/EN8BP | 7.0 | 3.51 | 1.98 |
| | HY/S-120B/EN8BP | 10.0 | 4.89 | 2.04 |
| | HY/S-140B/EN8BP | 11.0 | 5.38 | 2.05 |
| | HY/S-160B/EN8BP | 12.5 | 6.18 | 2.02 |

NOTE

NOTE

HYUNDAI

AIR CONDITIONING SYSTEMS

AIR-TO-WATER HEAT PUMP - MONOBLOCK

Please check the applicable models, F-GAS and manufacturer information from the "Owner's Manual - Product Fiche" in the packaging of the outdoor unit. (European Union products only).

Imported/distributed by Gioxas S.A
Add: P Ralli Str 42, 12241 Egaleo, Athens, Greece
Tel/fax: +30 2103475370
Licensed by Hyundai Corporation Holdings, Korea



作图日期2024. 03. 15

902000100059

CPXXK-HYUNDAI-KS-1P-02

本文件黑白印刷。

注意：本页不用印刷，仅对印刷颜色做要求。