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| | | | |
|---------------------|-----------------------------|----------|---------------|
| Summary of | S1x55-12 | Reg. No. | 012-SC0191-19 |
| Certificate Holder | | | |
| Name | Nibe AB | | |
| Address | Box 14 | Zip | S-28521 |
| City | Markaryd | Country | Sweden |
| Certification Body | RISE CERT | | |
| Subtype title | S1x55-12 | | |
| Heat Pump Type | Brine/Water and Water/Water | | |
| Refrigerant | R407c | | |
| Mass of Refrigerant | 2 kg | | |
| Certification Date | 05.08.2019 | | |

Model: S1255-12 3x400

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | S1255-12 3x400 |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | No |

Brine/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 5.06 kW | 4.46 kW |
| El input | 1.04 kW | 1.47 kW |
| COP | 4.87 | 3.02 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 201 % | 157 % |
| Prated | 11.00 kW | 12.40 kW |
| SCOP | 5.23 | 4.13 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.30 kW | 11.10 kW |
| COP Tj = -7°C | 4.52 | 3.18 |
| Cdh Tj = -7 °C | 0.98 | 0.99 |
| Pdh Tj = +2°C | 6.30 kW | 6.77 kW |
| COP Tj = +2°C | 5.22 | 4.12 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 4.10 kW | 4.40 kW |
| COP Tj = +7°C | 5.60 | 4.67 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |
| COP Tj = 12°C | 5.78 | 5.06 |
| Cdh Tj = +12 °C | 0.98 | 0.99 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4582 kWh | 6213 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 208 % | 162 % |
| Prated | 11.60 kW | 12.40 kW |
| SCOP | 5.40 | 4.25 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.10 kW | 7.60 kW |
| COP Tj = -7°C | 5.26 | 3.94 |
| Pdh Tj = +2°C | 4.30 kW | 4.70 kW |
| COP Tj = +2°C | 5.62 | 4.58 |
| Pdh Tj = +7°C | 2.80 kW | 3.00 kW |
| COP Tj = +7°C | 6.01 | 5.11 |
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |
| COP Tj = 12°C | 5.44 | 4.98 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 5292 kWh | 7173 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 98 % |
| COP | 2.45 |
| Heating up time | 01:42 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 222 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 98 % |
| COP | 2.45 |
| Heating up time | 01:42 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 222 l |

Water/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

EN 14511-2

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.33 kW | 5.79 kW |
| El input | 1.03 kW | 1.54 kW |
| COP | 6.12 | 3.75 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 253 % | 197 % |
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.52 | 5.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.50 kW | 12.40 kW |
| COP Tj = -7°C | 5.46 | 3.84 |
| Pdh Tj = +2°C | 7.60 kW | 7.60 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = +2°C | 6.56 | 5.12 |
| Pdh Tj = +7°C | 4.90 kW | 4.90 kW |
| COP Tj = +7°C | 7.14 | 5.90 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.65 | 6.52 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |
| COP Tj = Tbiv | 5.08 | 3.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.00 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.08 | 3.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4433 kWh | 5657 kWh |

Colder Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 263 % | 204 % |
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.77 | 5.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.60 kW | 8.60 kW |
| COP Tj = -7°C | 6.50 | 4.85 |
| Pdh Tj = +2°C | 5.20 kW | 2.20 kW |
| COP Tj = +2°C | 7.13 | 5.76 |
| Pdh Tj = +7°C | 3.40 kW | 3.40 kW |
| COP Tj = +7°C | 7.84 | 6.65 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.39 | 6.58 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |
| COP Tj = Tbiv | 5.08 | 3.48 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 14.00 kW | 14.00 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.08 | 3.48 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 5091 kWh | 6497 kWh |

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 113 % |
| COP | 2.82 |
| Heating up time | 01:32 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 222 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 113 % |
| COP | 2.82 |
| Heating up time | 01:32 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 222 l |

Model: S1255-12 1x230

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | S1255-12 1x230 |
| Application | Heating + DHW + low temp |
| Units | Indoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | No |

Brine/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 5.06 kW | 4.46 kW |
| El input | 1.04 kW | 1.47 kW |
| COP | 4.87 | 3.02 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 201 % | 157 % |
| Prated | 11.00 kW | 12.40 kW |
| SCOP | 5.23 | 4.13 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.30 kW | 11.10 kW |
| COP Tj = -7°C | 4.52 | 3.18 |
| Cdh Tj = -7 °C | 0.98 | 0.99 |
| Pdh Tj = +2°C | 6.30 kW | 6.77 kW |
| COP Tj = +2°C | 5.22 | 4.12 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 4.10 kW | 4.40 kW |
| COP Tj = +7°C | 5.60 | 4.67 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |
| COP Tj = 12°C | 5.78 | 5.06 |
| Cdh Tj = +12 °C | 0.98 | 0.99 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4582 kWh | 6213 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 208 % | 162 % |
| Prated | 11.60 kW | 12.40 kW |
| SCOP | 5.40 | 4.25 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.10 kW | 7.60 kW |
| COP Tj = -7°C | 5.26 | 3.94 |
| Pdh Tj = +2°C | 4.30 kW | 4.70 kW |
| COP Tj = +2°C | 5.62 | 4.58 |
| Pdh Tj = +7°C | 2.80 kW | 3.00 kW |
| COP Tj = +7°C | 6.01 | 5.11 |
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |
| COP Tj = 12°C | 5.44 | 4.98 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 5292 kWh | 7173 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 98 % |
| COP | 2.45 |
| Heating up time | 01:42 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 222 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 98 % |
| COP | 2.45 |
| Heating up time | 01:42 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 222 l |

Water/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

EN 14511-2

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 6.33 kW | 5.79 kW |
| El input | 1.03 kW | 1.54 kW |
| COP | 6.12 | 3.75 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 253 % | 197 % |
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.52 | 5.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.50 kW | 12.40 kW |
| COP Tj = -7°C | 5.46 | 3.84 |
| Pdh Tj = +2°C | 7.60 kW | 7.60 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = +2°C | 6.56 | 5.12 |
| Pdh Tj = +7°C | 4.90 kW | 4.90 kW |
| COP Tj = +7°C | 7.14 | 5.90 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.65 | 6.52 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |
| COP Tj = Tbiv | 5.08 | 3.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.00 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.08 | 3.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4433 kWh | 5657 kWh |

Colder Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 263 % | 204 % |
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.77 | 5.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.60 kW | 8.60 kW |
| COP Tj = -7°C | 6.50 | 4.85 |
| Pdh Tj = +2°C | 5.20 kW | 2.20 kW |
| COP Tj = +2°C | 7.13 | 5.76 |
| Pdh Tj = +7°C | 3.40 kW | 3.40 kW |
| COP Tj = +7°C | 7.84 | 6.65 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.39 | 6.58 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |
| COP Tj = Tbiv | 5.08 | 3.48 |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 14.00 kW | 14.00 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.08 | 3.48 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 5091 kWh | 6497 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 113 % |
| COP | 2.82 |
| Heating up time | 01:32 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 222 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 113 % |
| COP | 2.82 |
| Heating up time | 01:32 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 222 l |

Model: S1155-12 3x400

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | S1155-12 3x400 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 3x400V 50Hz |

Brine/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 5.06 kW | 4.46 kW |
| El input | 1.04 kW | 1.47 kW |
| COP | 4.87 | 3.02 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 201 % | 157 % |
| Prated | 11.00 kW | 12.40 kW |
| SCOP | 5.23 | 4.13 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.30 kW | 11.10 kW |
| COP Tj = -7°C | 4.52 | 3.18 |
| Cdh Tj = -7 °C | 0.98 | 0.99 |
| Pdh Tj = +2°C | 6.30 kW | 6.77 kW |
| COP Tj = +2°C | 5.22 | 4.12 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 4.10 kW | 4.40 kW |
| COP Tj = +7°C | 5.60 | 4.67 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 5.78 | 5.06 |
| Cdh Tj = +12 °C | 0.98 | 0.99 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4582 kWh | 6213 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

| EN 14825 |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 208 % | 162 % |
| Prated | 11.60 kW | 12.40 kW |
| SCOP | 5.40 | 4.25 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.10 kW | 7.60 kW |
| COP Tj = -7°C | 5.26 | 3.94 |
| Pdh Tj = +2°C | 4.30 kW | 4.70 kW |
| COP Tj = +2°C | 5.62 | 4.58 |
| Pdh Tj = +7°C | 2.80 kW | 3.00 kW |
| COP Tj = +7°C | 6.01 | 5.11 |
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |
| COP Tj = 12°C | 5.44 | 4.98 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 5292 kWh | 7173 kWh |

Water/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| | |
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

| EN 14511-2 | | |
|-------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Heat output | 6.33 kW | 5.79 kW |
| El input | 1.03 kW | 1.54 kW |
| COP | 6.12 | 3.75 |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 253 % | 197 % |
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.52 | 5.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.50 kW | 12.40 kW |
| COP Tj = -7°C | 5.46 | 3.84 |
| Pdh Tj = +2°C | 7.60 kW | 7.60 kW |
| COP Tj = +2°C | 6.56 | 5.12 |
| Pdh Tj = +7°C | 4.90 kW | 4.90 kW |
| COP Tj = +7°C | 7.14 | 5.90 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.65 | 6.52 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 5.08 | 3.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.00 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.08 | 3.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4433 kWh | 5657 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 263 % | 204 % |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.77 | 5.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.60 kW | 8.60 kW |
| COP Tj = -7°C | 6.50 | 4.85 |
| Pdh Tj = +2°C | 5.20 kW | 2.20 kW |
| COP Tj = +2°C | 7.13 | 5.76 |
| Pdh Tj = +7°C | 3.40 kW | 3.40 kW |
| COP Tj = +7°C | 7.84 | 6.65 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.39 | 6.58 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |
| COP Tj = Tbiv | 5.08 | 3.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.00 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.08 | 3.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 5091 kWh | 6497 kWh |

Model: S1155-12 1x230

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | S1155-12 1x230 |
| Application | Heating (medium temp) |
| Units | Indoor |
| Climate Zone | Colder Climate |
| Reversibility | No |
| Cooling mode application (optional) | n/a |

| General Data | |
|--------------|-------------|
| Power supply | 1x230V 50Hz |

Brine/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

| EN 14511-2 | | |
|-------------|-----------------|--------------------|
| | Low temperature | Medium temperature |
| Heat output | 5.06 kW | 4.46 kW |
| El input | 1.04 kW | 1.47 kW |
| COP | 4.87 | 3.02 |

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 201 % | 157 % |
| Prated | 11.00 kW | 12.40 kW |
| SCOP | 5.23 | 4.13 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 10.30 kW | 11.10 kW |
| COP Tj = -7°C | 4.52 | 3.18 |
| Cdh Tj = -7 °C | 0.98 | 0.99 |
| Pdh Tj = +2°C | 6.30 kW | 6.77 kW |
| COP Tj = +2°C | 5.22 | 4.12 |
| Cdh Tj = +2 °C | 0.98 | 0.99 |
| Pdh Tj = +7°C | 4.10 kW | 4.40 kW |
| COP Tj = +7°C | 5.60 | 4.67 |
| Cdh Tj = +7 °C | 0.98 | 0.99 |
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 5.78 | 5.06 |
| Cdh Tj = +12 °C | 0.98 | 0.99 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4582 kWh | 6213 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

| EN 14825 |
|-----------------|
|-----------------|

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 208 % | 162 % |
| Prated | 11.60 kW | 12.40 kW |
| SCOP | 5.40 | 4.25 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 7.10 kW | 7.60 kW |
| COP Tj = -7°C | 5.26 | 3.94 |
| Pdh Tj = +2°C | 4.30 kW | 4.70 kW |
| COP Tj = +2°C | 5.62 | 4.58 |
| Pdh Tj = +7°C | 2.80 kW | 3.00 kW |
| COP Tj = +7°C | 6.01 | 5.11 |
| Pdh Tj = 12°C | 2.70 kW | 2.60 kW |
| COP Tj = 12°C | 5.44 | 4.98 |
| Pdh Tj = Tbiv | 11.50 kW | 12.30 kW |
| COP Tj = Tbiv | 4.26 | 2.91 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 11.50 kW | 12.30 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.26 | 2.91 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| Poff | 5 W | 5 W |
| PTO | 20 W | 15 W |
| PSB | 7 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 5292 kWh | 7173 kWh |

Water/Water Heat Pump

Heating

| EN 14511-4 | |
|--|--------|
| Operating range outdoor exchanger/indoor exchanger upper limit/upper limit | passed |
| Operating range outdoor exchanger/indoor exchanger lower limit/lower limit | passed |
| Shutting off the heat transfer medium flow | passed |
| Complete power supply failure | passed |

| EN 14511-2 | | |
|-------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Heat output | 6.33 kW | 5.79 kW |
| El input | 1.03 kW | 1.54 kW |
| COP | 6.12 | 3.75 |

Average Climate

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 253 % | 197 % |
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.52 | 5.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 12.50 kW | 12.40 kW |
| COP Tj = -7°C | 5.46 | 3.84 |
| Pdh Tj = +2°C | 7.60 kW | 7.60 kW |
| COP Tj = +2°C | 6.56 | 5.12 |
| Pdh Tj = +7°C | 4.90 kW | 4.90 kW |
| COP Tj = +7°C | 7.14 | 5.90 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.65 | 6.52 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 5.08 | 3.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.00 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.08 | 3.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 4433 kWh | 5657 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 44 dB(A) | 44 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 263 % | 204 % |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|---|----------|----------|
| Prated | 14.00 kW | 14.00 kW |
| SCOP | 6.77 | 5.30 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 8.60 kW | 8.60 kW |
| COP Tj = -7°C | 6.50 | 4.85 |
| Pdh Tj = +2°C | 5.20 kW | 2.20 kW |
| COP Tj = +2°C | 7.13 | 5.76 |
| Pdh Tj = +7°C | 3.40 kW | 3.40 kW |
| COP Tj = +7°C | 7.84 | 6.65 |
| Pdh Tj = 12°C | 3.30 kW | 3.20 kW |
| COP Tj = 12°C | 7.39 | 6.58 |
| Pdh Tj = Tbiv | 14.00 kW | 14.00 kW |
| COP Tj = Tbiv | 5.08 | 3.48 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 14.00 kW | 14.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.08 | 3.48 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 5 W | 5 W |
| PTO | 30 W | 25 W |
| PSB | 10 W | 7 W |

This information was generated by the HP KEYMARK database on 18 Mar 2022

| | | |
|--|-------------|-------------|
| PCK | 0 W | 0 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 5091 kWh | 6497 kWh |