

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | | |
|----------------------------|-----------------------------|----------|---------------|
| Summary of | S1x55-16 | Reg. No. | 012-SC0192-19 |
| Certificate Holder | | | |
| Name | Nibe AB | | |
| Address | Box 14 | Zip | S-28521 |
| City | Markaryd | Country | Sweden |
| Certification Body | RISE CERT | | |
| Name of testing laboratory | AIT | | |
| Subtype title | S1x55-16 | | |
| Heat Pump Type | Brine/Water and Water/Water | | |
| Refrigerant | R407c | | |
| Mass Of Refrigerant | 2.2 kg | | |
| Certification Date | 05.08.2019 | | |

Model: S1255-16

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 | 8.89 kW | 8.54 kW |
| El input | 1.83 kW | 2.72 kW |
| COP | 4.85 | 3.14 |
| Indoor water flow rate | 2.76 m ³ /h | 1.72 m ³ /h |

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 199 % | 154 % |
| Prated | 16.00 kW | 16.00 kW |
| SCOP | 5.18 | 4.05 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 14.20 kW | 14.20 kW |
| COP Tj = -7°C | 4.19 | 3.00 |
| Pdh Tj = +2°C | 8.70 kW | 8.70 kW |
| COP Tj = +2°C | 5.26 | 4.10 |
| Pdh Tj = +7°C | 5.70 kW | 5.60 kW |
| COP Tj = +7°C | 6.06 | 4.90 |
| Pdh Tj = 12°C | 5.80 kW | 5.50 kW |
| COP Tj = 12°C | 5.85 | 5.00 |
| Pdh Tj = Tbiv | 15.90 kW | 16.00 kW |
| COP Tj = Tbiv | 3.90 | 2.80 |

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| | | |
|--|-------------|-------------|
| Pdh Tj = TOL | 15.90 kW | 16.00 kW |
| COP Tj = TOL | 3.90 | 2.80 |
| Cdh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 30 W | 30 W |
| PSB | 7 W | 7 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.00 kW |
| Annual energy consumption Qhe | 6373 kWh | 8167 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 211 % | 159 % |
| Prated | 16.00 kW | 16.00 kW |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|---------------|----------|----------|
| SCOP | 5.48 | 4.18 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.80 kW | 9.80 kW |
| COP Tj = -7°C | 5.10 | 3.80 |
| Pdh Tj = +2°C | 6.00 kW | 6.00 kW |
| COP Tj = +2°C | 6.10 | 4.70 |
| Pdh Tj = +7°C | 5.70 kW | 5.60 kW |
| COP Tj = +7°C | 6.10 | 5.00 |
| Pdh Tj = 12°C | 5.70 kW | 5.60 kW |
| COP Tj = 12°C | 5.60 | 5.00 |
| Pdh Tj = Tbiv | 15.90 kW | 16.00 kW |
| COP Tj = Tbiv | 3.90 | 2.80 |
| Pdh Tj = TOL | 15.90 kW | 16.00 kW |
| COP Tj = TOL | 3.90 | 2.80 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 30 W | 30 W |
| PSB | 7 W | 7 W |
| PCK | 30 W | 30 W |

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| | | |
|--|-------------|-------------|
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 7218 kWh | 9434 kWh |

Domestic Hot Water (DHW)

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 98 % |
| COP | 2.45 |
| Heating up time | 01:04 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 240 l |

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 98 % |
| COP | 2.45 |
| Heating up time | 01:04 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 240 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 |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 14511-2 | | |
|------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Heat output | 11.20 kW | 10.90 kW |
| El input | 1.84 kW | 2.79 kW |
| COP | 6.11 | 3.91 |
| Indoor water flow rate | 3.27 m ³ /h | 2.05 m ³ /h |

Average Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| η_s | 265 % | 202 % |
| Prated | 19.00 kW | 19.00 kW |
| SCOP | 6.47 | 5.00 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 16.90 kW | 16.90 kW |
| COP Tj = -7°C | 5.34 | 3.82 |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|--|-------------|-------------|
| Pdh Tj = +2°C | 10.30 kW | 10.30 kW |
| COP Tj = +2°C | 6.61 | 5.08 |
| Pdh Tj = +7°C | 7.20 kW | 7.00 kW |
| COP Tj = +7°C | 7.50 | 5.93 |
| Pdh Tj = 12°C | 7.30 kW | 7.10 kW |
| COP Tj = 12°C | 7.61 | 6.28 |
| Pdh Tj = Tbiv | 19.00 kW | 19.00 kW |
| COP Tj = Tbiv | 5.01 | 3.51 |
| Pdh Tj = TOL | 19.00 kW | 19.00 kW |
| COP Tj = TOL | 5.01 | 3.51 |
| Cdh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 45 W | 35 W |
| PSB | 10 W | 7 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 6070 kWh | 7834 kWh |

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 265 % | 202 % |
| Prated | 19.00 kW | 19.00 kW |
| SCOP | 6.82 | 5.25 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 11.60 kW | 11.60 kW |
| COP Tj = -7°C | 6.51 | 4.82 |
| Pdh Tj = +2°C | 7.30 kW | 7.10 kW |
| COP Tj = +2°C | 7.56 | 5.87 |
| Pdh Tj = +7°C | 7.30 kW | 7.00 kW |
| COP Tj = +7°C | 7.62 | 6.24 |
| Pdh Tj = 12°C | 7.30 kW | 7.00 kW |
| COP Tj = 12°C | 7.46 | 6.47 |
| Pdh Tj = Tbiv | 19.00 kW | 19.00 kW |
| COP Tj = Tbiv | 5.01 | 3.51 |

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| | | |
|--|-------------|-------------|
| Pdh Tj = TOL | 19.00 kW | 19.00 kW |
| COP Tj = TOL | 5.01 | 3.51 |
| Cdh | 0.96 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 45 W | 35 W |
| PSB | 10 W | 7 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 6861 kWh | 8907 kWh |

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 113 % |
| COP | 2.82 |
| Heating up time | 00:58 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 45.0 °C |
| Mixed water at 40°C | 235 l |

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 113 % |
| COP | 2.82 |
| Heating up time | 00:58 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 45.0 °C |
| Mixed water at 40°C | 235 l |

Model: S1155-16

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 | 8.89 kW | 8.54 kW |
| El input | 1.83 kW | 2.72 kW |
| COP | 4.85 | 3.14 |
| Indoor water flow rate | 2.76 m ³ /h | 1.72 m ³ /h |

Average Climate

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EN 12102-1

| | Low temperature | Medium temperature |
|--------------------------|-----------------|--------------------|
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 199 % | 154 % |
| Prated | 16.00 kW | 16.00 kW |
| SCOP | 5.18 | 4.05 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 14.20 kW | 14.20 kW |
| COP Tj = -7°C | 4.19 | 3.00 |
| Pdh Tj = +2°C | 8.70 kW | 8.70 kW |
| COP Tj = +2°C | 5.26 | 4.10 |
| Pdh Tj = +7°C | 5.70 kW | 5.60 kW |
| COP Tj = +7°C | 6.06 | 4.90 |
| Pdh Tj = 12°C | 5.80 kW | 5.50 kW |
| COP Tj = 12°C | 5.85 | 5.00 |
| Pdh Tj = Tbiv | 15.90 kW | 16.00 kW |
| COP Tj = Tbiv | 3.90 | 2.80 |

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| | | |
|--|-------------|-------------|
| Pdh Tj = TOL | 15.90 kW | 16.00 kW |
| COP Tj = TOL | 3.90 | 2.80 |
| Cdh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 30 W | 30 W |
| PSB | 7 W | 7 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.00 kW |
| Annual energy consumption Qhe | 6373 kWh | 8167 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
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| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 9.80 kW | 9.80 kW |
| COP Tj = -7°C | 5.10 | 3.80 |
| Pdh Tj = +2°C | 6.00 kW | 6.00 kW |
| COP Tj = +2°C | 6.10 | 4.70 |
| Pdh Tj = +7°C | 5.70 kW | 5.60 kW |
| COP Tj = +7°C | 6.10 | 5.00 |
| Pdh Tj = 12°C | 5.70 kW | 5.60 kW |
| COP Tj = 12°C | 5.60 | 5.00 |
| Pdh Tj = Tbiv | 15.90 kW | 16.00 kW |
| COP Tj = Tbiv | 3.90 | 2.80 |
| Pdh Tj = TOL | 15.90 kW | 16.00 kW |
| COP Tj = TOL | 3.90 | 2.80 |
| Cdh | 0.99 | 0.99 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 30 W | 30 W |
| PSB | 7 W | 7 W |
| PCK | 30 W | 30 W |

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| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.10 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 7218 kWh | 9434 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 | 11.20 kW | 10.90 kW |
| El input | 1.84 kW | 2.79 kW |
| COP | 6.11 | 3.91 |
| Indoor water flow rate | 3.27 m ³ /h | 2.05 m ³ /h |

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| Sound power level indoor | 42 dB(A) | 42 dB(A) |

EN 14825

| | Low temperature | Medium temperature |
|---------------|-----------------|--------------------|
| η_s | 265 % | 202 % |
| Prated | 19.00 kW | 19.00 kW |
| SCOP | 6.47 | 5.00 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 16.90 kW | 16.90 kW |
| COP Tj = -7°C | 5.34 | 3.82 |
| Pdh Tj = +2°C | 10.30 kW | 10.30 kW |
| COP Tj = +2°C | 6.61 | 5.08 |
| Pdh Tj = +7°C | 7.20 kW | 7.00 kW |
| COP Tj = +7°C | 7.50 | 5.93 |
| Pdh Tj = 12°C | 7.30 kW | 7.10 kW |
| COP Tj = 12°C | 7.61 | 6.28 |
| Pdh Tj = Tbiv | 19.00 kW | 19.00 kW |
| COP Tj = Tbiv | 5.01 | 3.51 |

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| Pdh Tj = TOL | 19.00 kW | 19.00 kW |
| COP Tj = TOL | 5.01 | 3.51 |
| Cdh | 0.97 | 0.98 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 45 W | 35 W |
| PSB | 10 W | 7 W |
| PCK | 30 W | 30 W |
| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 6070 kWh | 7834 kWh |

Colder Climate

| EN 12102-1 | | |
|--------------------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
| Sound power level indoor | 42 dB(A) | 42 dB(A) |

| EN 14825 | | |
|-----------------|------------------------|---------------------------|
| | Low temperature | Medium temperature |
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| Prated | 19.00 kW | 19.00 kW |

This information was generated by the HP KEYMARK database on 17 Dec 2020

| | | |
|---------------|----------|----------|
| SCOP | 6.82 | 5.25 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 11.60 kW | 11.60 kW |
| COP Tj = -7°C | 6.51 | 4.82 |
| Pdh Tj = +2°C | 7.30 kW | 7.10 kW |
| COP Tj = +2°C | 7.56 | 5.87 |
| Pdh Tj = +7°C | 7.30 kW | 7.00 kW |
| COP Tj = +7°C | 7.62 | 6.24 |
| Pdh Tj = 12°C | 7.30 kW | 7.00 kW |
| COP Tj = 12°C | 7.46 | 6.47 |
| Pdh Tj = Tbiv | 19.00 kW | 19.00 kW |
| COP Tj = Tbiv | 5.01 | 3.51 |
| Pdh Tj = TOL | 19.00 kW | 19.00 kW |
| COP Tj = TOL | 5.01 | 3.51 |
| Cdh | 0.96 | 0.98 |
| WTOL | 65 °C | 65 °C |
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| PTO | 45 W | 35 W |
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| Supplementary Heater: Type of energy input | electricity | electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 6861 kWh | 8907 kWh |