

This information was generated by the HP KEYMARK database on 7 Jul 2022

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| | | | |
|---------------------|-----------------------------|----------|---------|
| Summary of | F1x55-6 | Reg. No. | 012-047 |
| Certificate Holder | | | |
| Name | Nibe AB | | |
| Address | Box 14 | Zip | S-28521 |
| City | Markaryd | Country | Sweden |
| Certification Body | RISE CERT | | |
| Subtype title | F1x55-6 | | |
| Heat Pump Type | Brine/Water and Water/Water | | |
| Refrigerant | R407c | | |
| Mass of Refrigerant | 1.16 kg | | |
| Certification Date | 15.06.2017 | | |

Model: F1155-6 1x230

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | F1155-6 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

Colder Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

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| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2188 kWh | 2875 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

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 | 270 % | 214 % |

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| | | |
|---|---------|---------|
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |

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| | | |
|--|-------------|-------------|
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2078 kWh | 2611 kWh |

Model: F1155-6 PC 1x230

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | F1155-6 PC 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

Colder 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 | 211 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |

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| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

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| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2188 kWh | 2875 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP $T_j = T_{biv}$ | 5.79 | 4.21 |
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.00 kW | 7.00 kW |
| COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.79 | 4.21 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 2378 kWh | 3005 kWh |

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 | 270 % | 214 % |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|---------|---------|
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2078 kWh | 2611 kWh |

Model: F1155-6 3x400

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | F1155-6 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

Colder Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2188 kWh | 2875 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

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 | 270 % | 214 % |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|---------|---------|
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2078 kWh | 2611 kWh |

Model: F1155-6 PC3x400

| Configure model | |
|-------------------------------------|-----------------------|
| Model name | F1155-6 PC3x400 |
| 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

Colder Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2188 kWh | 2875 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

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 | 270 % | 214 % |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|---------|---------|
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2078 kWh | 2611 kWh |

Model: F1255-6 1x230

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | F1255-6 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2188 kWh | 2875 kWh |

Domestic Hot Water (DHW)

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 l |

Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 | 270 % | 214 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.00 kW | 7.00 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.79 | 4.21 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 2078 kWh | 2611 kWh |

Domestic Hot Water (DHW)

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Model: F1255-6 PC 1x230

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | F1255-6 PC 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2188 kWh | 2875 kWh |

Domestic Hot Water (DHW)

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 61.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 61.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 | 270 % | 214 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.00 kW | 7.00 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.79 | 4.21 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 2078 kWh | 2611 kWh |

Domestic Hot Water (DHW)

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 55.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 55.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Model: F1255-6 3x400

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | F1255-6 3x400 |
| 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2188 kWh | 2875 kWh |

Domestic Hot Water (DHW)

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 | 270 % | 214 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.00 kW | 7.00 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.79 | 4.21 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 2078 kWh | 2611 kWh |

Domestic Hot Water (DHW)

Colder Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 45.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Model: F1255-6 PC 3x400

| Configure model | |
|-------------------------------------|--------------------------|
| Model name | F1255-6 PC 3x400 |
| 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 | 3.15 kW | 2.78 kW |
| El input | 0.67 kW | 0.93 kW |
| COP | 4.72 | 2.99 |

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 % | 157 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.48 | 4.13 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 3.40 kW | 3.40 kW |
| COP Tj = -7°C | 5.17 | 3.77 |
| Cdh Tj = -7 °C | | |
| Pdh Tj = +2°C | 2.10 kW | 2.10 kW |
| COP Tj = +2°C | 5.91 | 4.51 |
| Cdh Tj = +2 °C | | |
| Pdh Tj = +7°C | 1.40 kW | 1.40 kW |
| COP Tj = +7°C | 6.36 | 5.12 |
| Cdh Tj = +7 °C | | |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 4.15 | 4.81 |
| Cdh Tj = +12 °C | | |
| Pdh Tj = Tbiv | 5.40 kW | 5.50 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.50 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.970 | 0.980 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2481 kWh | 3287 kWh |

Average Climate

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

This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 14825

| | Low temperature | Medium temperature |
|---|-----------------|--------------------|
| η_s | 200 % | 150 % |
| Prated | 5.50 kW | 5.50 kW |
| SCOP | 5.20 | 3.95 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 5.00 kW | 5.00 kW |
| COP Tj = -7°C | 4.37 | 3.06 |
| Pdh Tj = +2°C | 3.10 kW | 3.00 kW |
| COP Tj = +2°C | 5.24 | 3.97 |
| Pdh Tj = +7°C | 2.00 kW | 2.00 kW |
| COP Tj = +7°C | 5.92 | 4.63 |
| Pdh Tj = 12°C | 1.30 kW | 1.20 kW |
| COP Tj = 12°C | 5.95 | 4.86 |
| Pdh Tj = Tbiv | 5.40 kW | 5.40 kW |
| COP Tj = Tbiv | 4.15 | 2.84 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 5.40 kW | 5.40 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 4.15 | 2.84 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.98 | 0.99 |
| WTOL | 65 °C | 65 °C |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|--|-------------|-------------|
| Poff | 2 W | 2 W |
| PTO | 10 W | 7 W |
| PSB | 7 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q _{he} | 2188 kWh | 2875 kWh |

Domestic Hot Water (DHW)

Colder Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 61.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 102 % |
| COP | 2.55 |
| Heating up time | 02:23 h:min |
| Standby power input | 61.0 W |
| Reference hot water temperature | 50.0 °C |
| Mixed water at 40°C | 245 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 | 4.30 kW | 3.82 kW |
| El input | 0.66 kW | 1.00 kW |
| COP | 6.00 | 3.83 |

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 | 282 % | 222 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 7.25 | 5.75 |
| Tbiv | -22 °C | -22 °C |
| TOL | -22 °C | -22 °C |
| Pdh Tj = -7°C | 4.30 kW | 4.30 kW |
| COP Tj = -7°C | 7.00 | 5.39 |
| Pdh Tj = +2°C | 2.70 kW | 2.70 kW |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| COP Tj = +2°C | 7.83 | 6.21 |
| Pdh Tj = +7°C | 1.80 kW | 1.80 kW |
| COP Tj = +7°C | 8.14 | 6.85 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.70 | 6.64 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 7.00 kW | 7.00 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 5.79 | 4.21 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.95 | 0.96 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Qhe | 2378 kWh | 3005 kWh |

Average Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 | 270 % | 214 % |
| Prated | 7.00 kW | 7.00 kW |
| SCOP | 6.95 | 5.55 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 6.30 kW | 6.30 kW |
| COP Tj = -7°C | 6.07 | 4.52 |
| Pdh Tj = +2°C | 3.90 kW | 3.90 kW |
| COP Tj = +2°C | 7.09 | 5.62 |
| Pdh Tj = +7°C | 2.50 kW | 2.50 kW |
| COP Tj = +7°C | 7.84 | 6.34 |
| Pdh Tj = 12°C | 1.80 kW | 1.60 kW |
| COP Tj = 12°C | 7.97 | 6.57 |
| Pdh Tj = Tbiv | 7.00 kW | 7.00 kW |
| COP Tj = Tbiv | 5.79 | 4.21 |

This information was generated by the HP KEYMARK database on 7 Jul 2022

| | | |
|---|-------------|-------------|
| $P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 7.00 kW | 7.00 kW |
| $COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$ | 5.79 | 4.21 |
| $C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$ | 0.96 | 0.97 |
| WTOL | 65 °C | 65 °C |
| Poff | 2 W | 2 W |
| PTO | 18 W | 15 W |
| PSB | 10 W | 7 W |
| PCK | 9 W | 9 W |
| Supplementary Heater: Type of energy input | Electricity | Electricity |
| Supplementary Heater: PSUP | 0.00 kW | 0.00 kW |
| Annual energy consumption Q_{he} | 2078 kWh | 2611 kWh |

Domestic Hot Water (DHW)

Colder Climate

This information was generated by the HP KEYMARK database on 7 Jul 2022

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 55.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |

Average Climate

| EN 16147 | |
|---------------------------------|-------------|
| Declared load profile | XL |
| Efficiency η_{DHW} | 117 % |
| COP | 2.93 |
| Heating up time | 02:09 h:min |
| Standby power input | 55.0 W |
| Reference hot water temperature | 49.0 °C |
| Mixed water at 40°C | 240 l |