

Subtype Air to water heat pump 12K

| | |
|---------------------|---|
| Certificate Holder | SOLARFOCUS GmbH |
| Address | Werkstrasse 1 |
| ZIP | 4451 |
| City | St. Ulrich bei Steyr |
| Country | AT |
| Certification Body | DIN CERTCO Gesellschaft für Konformitätsbewertung mbH |
| Subtype title | Air to water heat pump 12K |
| Registration number | 011-1W1078 |
| Heat Pump Type | Outdoor Air/Water |
| Refrigerant | R290 |
| Mass of Refrigerant | 1.2 kg |
| Certification Date | 26.08.2025 |
| Testing basis | HP KEYMARK certification scheme rules rev. 14 |
| Testing laboratory | TÜV Rheinland (GuangDong) Ltd., CN |

Model Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydromodul M

| | |
|-------------------------------------|--|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydromodul M |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| EI input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydromodul M

| | |
|-------------------------------------|--|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydromodul M |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| El input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

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|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower easy M

| | |
|-------------------------------------|---|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower easy M |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| El input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

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|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower PVmax M

| | |
|--|--|
| M Model name | Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower PVmax M |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|-------------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|--------------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|--------------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| EI input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|----------------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------------|-----------------|--------------------|
| ηs | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydromodul L

| | |
|-------------------------------------|--|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydromodul L |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| EI input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower easy L

| | |
|-------------------------------------|---|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower easy L |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| El input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower PVmax L

| | |
|-------------------------------------|--|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/1 and indoor unit SOLARFOCUS hydrotower PVmax L |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| El input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

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| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower easy M

| | |
|-------------------------------------|---|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower easy M |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| El input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower PVmax M

| | |
|--|--|
| M Model name | Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower PVmax M |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|-------------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|--------------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|--------------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| EI input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|----------------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|-----------------------|-----------------|--------------------|
| ηs | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydromodul L

| | |
|-------------------------------------|--|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydromodul L |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| El input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower easy L

| | |
|-------------------------------------|---|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower easy L |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| EI input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |

Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower PVmax L

| | |
|-------------------------------------|--|
| Model name | Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower PVmax L |
| Application | Heating (medium temp) |
| Units | Indoor, Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | n/a |
| Any additional heat sources | n/a |

General data

| | |
|------------------|-------------|
| Power supply | 3x400V 50Hz |
| Off-peak product | n/a |

Outdoor Air/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

| | |
|-------------------------------|--------|
| Complete power supply failure | passed |
| Defrost test | passed |
| Starting and operating test | passed |

EN 14511-2 | Heating

| | Low temperature | Medium temperature |
|-------------|-----------------|--------------------|
| Heat output | 8.66 kW | 9.18 kW |
| EI input | 1.64 kW | 2.82 kW |
| COP | 5.28 | 3.26 |

EN 12102-1 | Average Climate

| | Low temperature | Medium temperature |
|---------------------------|-----------------|--------------------|
| Sound power level indoor | 35 dB(A) | 35 dB(A) |
| Sound power level outdoor | 50 dB(A) | 50 dB(A) |

EN 14825 | Average Climate

| | Low temperature | Medium temperature |
|----------------|-----------------|--------------------|
| η_s | 216 % | 162 % |
| Prated | 9.83 kW | 9.60 kW |
| SCOP | 5.48 | 4.12 |
| Tbiv | -10 °C | -10 °C |
| TOL | -10 °C | -10 °C |
| Pdh Tj = -7°C | 8.55 kW | 7.98 kW |
| COP Tj = -7°C | 3.58 | 2.65 |
| Cdh Tj = -7 °C | 0.990 | 0.990 |
| Pdh Tj = +2°C | 5.10 kW | 4.91 kW |
| COP Tj = +2°C | 5.22 | 3.96 |

| | | |
|---|-------------|-------------|
| Cdh Tj = +2 °C | 0.970 | 0.980 |
| Pdh Tj = +7°C | 3.91 kW | 3.72 kW |
| COP Tj = +7°C | 7.30 | 5.37 |
| Cdh Tj = +7 °C | 0.940 | 0.960 |
| Pdh Tj = 12°C | 4.52 kW | 4.40 kW |
| COP Tj = 12°C | 9.60 | 7.38 |
| Cdh Tj = +12 °C | 0.940 | 0.950 |
| Pdh Tj = Tbiv | 9.83 kW | 9.60 kW |
| COP Tj = Tbiv | 3.11 | 2.30 |
| Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 9.83 kW | 9.60 kW |
| COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh | 3.11 | 2.30 |
| Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh | 0.990 | 0.990 |
| WTOL | 55 °C | 55 °C |
| Poff | 19 W | 19 W |
| PTO | 30 W | 30 W |
| PSB | 19 W | 19 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 | 3706 kWh | 4812 kWh |