

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
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 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)
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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
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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
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EN 12102-1 | Average Climate

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EN 14825 | Average Climate

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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

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
El input	1.64 kW	2.82 kW
COP	5.28	3.26

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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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 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
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 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
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Pdh Tj = +7°C	3.91 kW	3.72 kW
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Pdh Tj = 12°C	4.52 kW	4.40 kW
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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
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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
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EN 14825 | Average Climate

	Low temperature	Medium temperature
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Prated	9.83 kW	9.60 kW
SCOP	5.48	4.12
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TOL	-10 °C	-10 °C
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
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Model Outdoor unit SOLARFOCUS vampair eco 12/3 and indoor unit SOLARFOCUS hydrotower PVmax 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

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
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EN 12102-1 | Average Climate

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EN 14825 | Average Climate

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SCOP	5.48	4.12
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
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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
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 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
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