

Subtype SWCV 62 Inverter

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	BRE Global Limited
Subtype title	SWCV 62 Inverter
Registration number	041-K001-12
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	1.16 kg
Certification Date	12.05.2017
Testing basis	HP Keymark Scheme Transition Rules
Testing laboratory	RISE Research Institutes of Sweden

Model alpha innotec SWCV 62(H)(K)3

Model name	alpha innotec SWCV 62(H)(K)3
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12 °C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2 °C	2.10 kW	2.10 kW
COP Tj = +2 °C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7 °C	1.40 kW	1.40 kW
COP Tj = +7 °C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12 °C	1.30 kW	1.20 kW
COP Tj = 12 °C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model alpha innotec SWCV 62H1

Model name	alpha innotec SWCV 62H1
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
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COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12 °C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2 °C	2.10 kW	2.10 kW
COP Tj = +2 °C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7 °C	1.40 kW	1.40 kW
COP Tj = +7 °C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12 °C	1.30 kW	1.20 kW
COP Tj = 12 °C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model alpha innotec WZSV 62(H)(K)3M

Model name	alpha innotec WZSV 62(H)(K)3M
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
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Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model alpha innotec PWZSV 62H3S

Model name	alpha innotec PWZSV 62H3S
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
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COP Tj = -7°C	4.37	3.06
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Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	211 %	157 %
Prated	5.50 kW	5.50 kW
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Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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 Pd _h Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
P _{off}	2 W	2 W
PTO	7 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}	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η _s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
T _{biv}	2 °C	2 °C
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Pd _h Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pd _h Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pd _h Tj = T _{biv}	5.40 kW	5.40 kW
COP Tj = T _{biv}	4.15	2.84
Pd _h Tj = TOL or Pd _h 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 Pd _h Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
P _{off}	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model alpha innotec PWZSV 62H2S

Model name	alpha innotec PWZSV 62H2S
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model alpha innotec PWZSV 62H1S

Model name	alpha innotec PWZSV 62H1S
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model NOVELAN SICV 6.2(H)(K)3

Model name	NOVELAN SICV 6.2(H)(K)3
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12 °C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2 °C	2.10 kW	2.10 kW
COP Tj = +2 °C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7 °C	1.40 kW	1.40 kW
COP Tj = +7 °C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12 °C	1.30 kW	1.20 kW
COP Tj = 12 °C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh

Model NOVELAN WSV 6.2(H)(K)3M

Model name	NOVELAN WSV 6.2(H)(K)3M
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
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EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
COP	4.86	3.13

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	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
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW

COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2192 kWh	2878 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
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	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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	2482 kWh	3288 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
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	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	7 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}	1402 kWh	1851 kWh