

Subtype SW 62 1~

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	BRE Global Limited
Subtype title	SW 62 1~
Registration number	041-K001-16
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	1.35 kg
Certification Date	12.05.2017
Testing basis	Transitional Rules

Model alpha innotec SW 62H1

Model name	alpha innotec SW 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	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	5.80 kW	5.10 kW
El input	1.21 kW	1.85 kW
COP	4.80	2.75

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	193 %	134 %
Prated	6.80 kW	6.18 kW
SCOP	5.01	3.54
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.74 kW	5.19 kW
COP Tj = -7°C	4.87	2.96
Pdh Tj = +2°C	5.81 kW	5.43 kW
COP Tj = +2°C	5.19	3.60
Pdh Tj = +7°C	5.86 kW	5.58 kW
COP Tj = +7°C	5.45	4.06
Pdh Tj = 12°C	5.92 kW	5.72 kW
COP Tj = 12°C	5.55	4.48
Pdh Tj = Tbiv	5.75 kW	5.23 kW
COP Tj = Tbiv	4.94	3.04

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.09 kW	1.08 kW
Annual energy consumption Qhe	2802 kWh	3608 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	199 %	139 %
Prated	7.11 kW	6.48 kW
SCOP	5.18	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.82 kW	5.39 kW
COP Tj = -7°C	5.30	3.48
Pdh Tj = +2°C	5.87 kW	5.55 kW
COP Tj = +2°C	5.51	3.99
Pdh Tj = +7°C	5.90 kW	5.68 kW
COP Tj = +7°C	5.64	4.42
Pdh Tj = 12°C	5.91 kW	5.77 kW
COP Tj = 12°C	5.33	4.58
Pdh Tj = Tbiv	5.80 kW	5.28 kW
COP Tj = Tbiv	5.21	3.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.38 kW
Annual energy consumption Qhe	3382 kWh	4362 kWh

EN 12102-1 | Warmer Climate

Sound power level indoor	Low temperature 43 dB(A)	Medium temperature 43 dB(A)
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EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	191 %	132 %
Prated	6.72 kW	6.08 kW
SCOP	4.96	3.51
Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	5.10 kW
COP Tj = +2°C	4.72	2.76
Pdh Tj = +7°C	5.79 kW	5.33 kW
COP Tj = +7°C	5.13	3.31
Pdh Tj = 12°C	5.88 kW	5.62 kW
COP Tj = 12°C	5.52	4.22
Pdh Tj = Tbiv	5.76 kW	5.21 kW
COP Tj = Tbiv	4.97	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.01 kW	0.98 kW
Annual energy consumption Qhe	1809 kWh	2315 kWh

Model alpha innotec SWC 62H1

Model name	alpha innotec SWC 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	n/a

Brine/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.80 kW	5.10 kW
El input	1.21 kW	1.85 kW
COP	4.80	2.75

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	193 %	134 %
Prated	6.80 kW	6.18 kW
SCOP	5.01	3.54
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.74 kW	5.19 kW
COP Tj = -7°C	4.87	2.96
Pdh Tj = +2°C	5.81 kW	5.43 kW
COP Tj = +2°C	5.19	3.60
Pdh Tj = +7°C	5.86 kW	5.58 kW
COP Tj = +7°C	5.45	4.06
Pdh Tj = 12°C	5.92 kW	5.72 kW
COP Tj = 12°C	5.55	4.48
Pdh Tj = Tbiv	5.75 kW	5.23 kW

COP Tj = Tbiv	4.94	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.09 kW	1.08 kW
Annual energy consumption Qhe	2802 kWh	3608 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	199 %	139 %
Prated	7.11 kW	6.48 kW
SCOP	5.18	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.82 kW	5.39 kW
COP Tj = -7°C	5.30	3.48
Pdh Tj = +2°C	5.87 kW	5.55 kW
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COP Tj = 12°C	5.33	4.58
Pdh Tj = Tbiv	5.80 kW	5.28 kW
COP Tj = Tbiv	5.21	3.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W

PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.38 kW
Annual energy consumption Qhe	3382 kWh	4362 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	191 %	132 %
Prated	6.72 kW	6.08 kW
SCOP	4.96	3.51
Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	5.10 kW
COP Tj = +2°C	4.72	2.76
Pdh Tj = +7°C	5.79 kW	5.33 kW
COP Tj = +7°C	5.13	3.31
Pdh Tj = 12°C	5.88 kW	5.62 kW
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COP Tj = Tbiv	4.97	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.01 kW	0.98 kW
Annual energy consumption Qhe	1809 kWh	2315 kWh

Model alpha innotec PWZS 62H1S

Model name	alpha innotec PWZS 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	n/a

Brine/Water
EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.80 kW	5.10 kW
El input	1.21 kW	1.85 kW
COP	4.80	2.75

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	193 %	134 %
Prated	6.80 kW	6.18 kW
SCOP	5.01	3.54
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.74 kW	5.19 kW
COP Tj = -7°C	4.87	2.96
Pdh Tj = +2°C	5.81 kW	5.43 kW
COP Tj = +2°C	5.19	3.60
Pdh Tj = +7°C	5.86 kW	5.58 kW
COP Tj = +7°C	5.45	4.06
Pdh Tj = 12°C	5.92 kW	5.72 kW
COP Tj = 12°C	5.55	4.48
Pdh Tj = Tbiv	5.75 kW	5.23 kW

COP Tj = Tbiv	4.94	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.09 kW	1.08 kW
Annual energy consumption Qhe	2802 kWh	3608 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	199 %	139 %
Prated	7.11 kW	6.48 kW
SCOP	5.18	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.82 kW	5.39 kW
COP Tj = -7°C	5.30	3.48
Pdh Tj = +2°C	5.87 kW	5.55 kW
COP Tj = +2°C	5.51	3.99
Pdh Tj = +7°C	5.90 kW	5.68 kW
COP Tj = +7°C	5.64	4.42
Pdh Tj = 12°C	5.91 kW	5.77 kW
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Pdh Tj = Tbiv	5.80 kW	5.28 kW
COP Tj = Tbiv	5.21	3.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W

PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.38 kW
Annual energy consumption Qhe	3382 kWh	4362 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	191 %	132 %
Prated	6.72 kW	6.08 kW
SCOP	4.96	3.51
Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	5.10 kW
COP Tj = +2°C	4.72	2.76
Pdh Tj = +7°C	5.79 kW	5.33 kW
COP Tj = +7°C	5.13	3.31
Pdh Tj = 12°C	5.88 kW	5.62 kW
COP Tj = 12°C	5.52	4.22
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COP Tj = Tbiv	4.97	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.01 kW	0.98 kW
Annual energy consumption Qhe	1809 kWh	2315 kWh

Model alpha innotec PWZS 62H2S

Model name	alpha innotec PWZS 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	1x230V 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
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.80 kW	5.10 kW
El input	1.21 kW	1.85 kW
COP	4.80	2.75

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	193 %	134 %
Prated	6.80 kW	6.18 kW
SCOP	5.01	3.54
Tbiv	-6 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.74 kW	5.19 kW
COP Tj = -7°C	4.87	2.96
Pdh Tj = +2°C	5.81 kW	5.43 kW
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Pdh Tj = +7°C	5.86 kW	5.58 kW
COP Tj = +7°C	5.45	4.06
Pdh Tj = 12°C	5.92 kW	5.72 kW
COP Tj = 12°C	5.55	4.48
Pdh Tj = Tbiv	5.75 kW	5.23 kW

COP Tj = Tbiv	4.94	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.09 kW	1.08 kW
Annual energy consumption Qhe	2802 kWh	3608 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	199 %	139 %
Prated	7.11 kW	6.48 kW
SCOP	5.18	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.82 kW	5.39 kW
COP Tj = -7°C	5.30	3.48
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COP Tj = +2°C	5.51	3.99
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COP Tj = Tbiv	5.21	3.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.71 kW	5.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.72	2.76
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W

PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.38 kW
Annual energy consumption Qhe	3382 kWh	4362 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	191 %	132 %
Prated	6.72 kW	6.08 kW
SCOP	4.96	3.51
Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.71 kW	5.10 kW
COP Tj = +2°C	4.72	2.76
Pdh Tj = +7°C	5.79 kW	5.33 kW
COP Tj = +7°C	5.13	3.31
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PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.01 kW	0.98 kW
Annual energy consumption Qhe	1809 kWh	2315 kWh