

Subtype SW 302 3~

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	BRE Global Limited
Subtype title	SW 302 3~
Registration number	041-K001-11
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	3.6 kg
Certification Date	12.05.2017
Testing basis	Transitional Rules

Model alpha innotec SW 302H3

Model name	alpha innotec SW 302H3
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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	29.60 kW	26.55 kW
EI input	6.06 kW	8.82 kW
COP	4.88	3.01

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	203 %	140 %
Prated	30.00 kW	27.00 kW
SCOP	5.28	3.70
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.70 kW	26.90 kW
COP Tj = -7°C	4.94	3.14
Pdh Tj = +2°C	30.00 kW	27.90 kW
COP Tj = +2°C	5.26	3.67
Pdh Tj = +7°C	30.30 kW	28.60 kW
COP Tj = +7°C	5.58	4.08
Pdh Tj = 12°C	30.60 kW	29.20 kW
COP Tj = 12°C	5.93	4.55
Pdh Tj = Tbiv	29.60 kW	26.60 kW
COP Tj = Tbiv	4.88	3.01

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	29.60 kW	26.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	3.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °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	0.00 kW	0.00 kW
Annual energy consumption Qhe	13330 kWh	17169 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	209 %	144 %
Prated	30.00 kW	27.00 kW
SCOP	5.43	3.80
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	30.00 kW	27.70 kW
COP Tj = -7°C	5.31	3.56
Pdh Tj = +2°C	30.30 kW	28.40 kW
COP Tj = +2°C	5.60	4.00
Pdh Tj = +7°C	30.50 kW	29.00 kW
COP Tj = +7°C	5.83	4.40
Pdh Tj = 12°C	30.60 kW	29.40 kW
COP Tj = 12°C	5.89	4.74
Pdh Tj = Tbiv	29.60 kW	26.60 kW
COP Tj = Tbiv	4.88	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	29.60 kW	26.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.88	3.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	65 °C	65 °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	0.00 kW	0.00 kW
Annual energy consumption Qhe	15802 kWh	20513 kWh

EN 12102-1 | Warmer Climate

Sound power level indoor	Low temperature 50 dB(A)	Medium temperature 50 dB(A)
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EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	205 %	141 %
Prated	30.00 kW	27.00 kW
SCOP	5.33	3.73
Tbiv	2 °C	2 °C
TOL	0 °C	0 °C
Pdh Tj = +2°C	29.60 kW	26.60 kW
COP Tj = +2°C	4.88	3.01
Pdh Tj = +7°C	29.90 kW	27.40 kW
COP Tj = +7°C	5.19	3.43
Pdh Tj = 12°C	30.40 kW	28.80 kW
COP Tj = 12°C	5.70	4.23
Pdh Tj = Tbiv	29.60 kW	26.60 kW
COP Tj = Tbiv	4.88	3.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	29.60 kW	26.60 kW
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WTOL	65 °C	65 °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	0.00 kW	0.00 kW
Annual energy consumption Qhe	8604 kWh	11176 kWh

Model NOVELAN SI 30.2H3

Model name	NOVELAN SI 30.2H3
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

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