

Subtype WZSV 42

Certificate Holder	ait-deutschland GmbH
Address	Industriestr. 3
ZIP	95359
City	Kasendorf
Country	DE
Certification Body	BRE Global Limited
Subtype title	WZSV 42
Registration number	041-K001-50
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	0.9 kg
Certification Date	21.06.2022
Testing basis	Heat Pump Keymark Scheme Rules Rev 09

Model alpha innotec - WZSV 42K3M

Model name	alpha innotec - WZSV 42K3M
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
Defrost test	passed
Starting and operating test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	192 %	135 %
Prated	3.90 kW	4.20 kW
SCOP	5.01	3.56
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.46 kW	3.58 kW
COP Tj = -7°C	4.44	3.04
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.07 kW	2.18 kW
COP Tj = +2°C	5.18	3.60
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.42 kW	1.48 kW
COP Tj = +7°C	5.59	3.98
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.42 kW	1.36 kW
COP Tj = 12°C	5.85	4.72
Cdh Tj = +12 °C	0.950	0.960
Pdh Tj = Tbiv	3.86 kW	3.58 kW
COP Tj = Tbiv	4.34	3.04

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.86 kW	3.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.34	2.81
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	44 W	44 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	1610 kWh	2436 kWh

Model alpha innotec - WZSV 42K3MC

Model name	alpha innotec - WZSV 42K3MC
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
Defrost test	passed
Starting and operating test	passed

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PTO	44 W	44 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Qhe	1610 kWh	2436 kWh

Model NOVELAN - WSV 4.2K3M

Model name	NOVELAN - WSV 4.2K3M
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

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Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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