Login

Summary of	SWCV 92 Inverter	Reg. No.	041-K001-26
Certificate Holder			
Name	ait-deutschland GmbH		
Address	Industriestr. 3	Zip	95359
City	Kasendorf	Country	Germany
Certification Body	BRE Global Limited		
Subtype title	SWCV 92 Inverter		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	1.25 kg		
Certification Date	29.03.2019		

Model: SWCV 92(H)(K)3 (3~ 400V)

Configure model	
Model name	SWCV 92(H)(K)3 (3~ 400V)
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	3.51 kW
El input	0.82 kW	1.16 kW
COP	4.86	3.02

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	148 %
Prated	8.50 kW	7.50 kW
SCOP	5.26	3.91
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	6.62 kW
COP Tj = -7°C	4.01	2.96
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW

COP Tj = 12°C	6.64	4.91
Cdh Tj = +12 °C	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	6.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	8.10 kW
COP Tj = +2°C	3.96	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.87
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	161 %
Prated	8.50 kW	8.50 kW
SCOP	5.29	4.22
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.14 kW	5.15 kW
COP Tj = -7°C	5.06	3.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW

COP Tj = 12°C	5.79	4.88
Cdh Tj = +12 °C	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.50	2.91
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3964 kWh	4967 kWh

Model: SWCV 92H1 (1~ 230V)

Configure model	
Model name	SWCV 92H1 (1~ 230V)
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	3.51 kW
El input	0.82 kW	1.16 kW
COP	4.86	3.02

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	148 %
Prated	8.50 kW	7.50 kW
SCOP	5.26	3.91
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	6.62 kW
COP Tj = -7°C	4.01	2.96
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW

COP Tj = 12°C	6.64	4.91
Cdh Tj = +12 °C	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	6.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	8.10 kW
COP Tj = +2°C	3.96	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.87
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	161 %
Prated	8.50 kW	8.50 kW
SCOP	5.29	4.22
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.14 kW	5.15 kW
COP Tj = -7°C	5.06	3.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW

COP Tj = 12°C	5.79	4.88
Cdh Tj = +12 °C	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.50	2.91
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3964 kWh	4967 kWh

Model: WZSV 92(H)(K)3M(3~ 400V)

Configure model	
Model name	WZSV 92(H)(K)3M(3~ 400V)
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	3.51 kW
El input	0.82 kW	1.16 kW
COP	4.86	3.02

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	148 %
Prated	8.50 kW	7.50 kW
SCOP	5.26	3.91
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	6.62 kW
COP Tj = -7°C	4.01	2.96
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW

COP Tj = 12°C	6.64	4.91
Cdh Tj = +12 °C	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	6.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	8.10 kW
COP Tj = +2°C	3.96	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.87
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	161 %
Prated	8.50 kW	8.50 kW
SCOP	5.29	4.22
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.14 kW	5.15 kW
COP Tj = -7°C	5.06	3.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW

COP Tj = 12°C	5.79	4.88
Cdh Tj = +12 °C	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.50	2.91
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3964 kWh	4967 kWh

Model: PWZSV 92H3S (3~ 400V)

Configure model	
Model name	PWZSV 92H3S (3~ 400V)
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	3.51 kW
El input	0.82 kW	1.16 kW
COP	4.86	3.02

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	148 %
Prated	8.50 kW	7.50 kW
SCOP	5.26	3.91
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	6.62 kW
COP Tj = -7°C	4.01	2.96
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW

COP Tj = 12°C	6.64	4.91
Cdh Tj = +12 °C	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	6.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	8.10 kW
COP Tj = +2°C	3.96	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.87
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	161 %
Prated	8.50 kW	8.50 kW
SCOP	5.29	4.22
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.14 kW	5.15 kW
COP Tj = -7°C	5.06	3.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
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COP Tj = 12°C	5.79	4.88
Cdh Tj = +12 °C	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.50	2.91
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3964 kWh	4967 kWh

Model: PWZSV 92H2S (3~ 230V)

Configure model	
Model name	PWZSV 92H2S (3~ 230V)
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	3.51 kW
El input	0.82 kW	1.16 kW
COP	4.86	3.02

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	148 %
Prated	8.50 kW	7.50 kW
SCOP	5.26	3.91
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	6.62 kW
COP Tj = -7°C	4.01	2.96
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Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW

COP Tj = 12°C	6.64	4.91
Cdh Tj = +12 °C	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	6.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	8.10 kW
COP Tj = +2°C	3.96	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.87
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	161 %
Prated	8.50 kW	8.50 kW
SCOP	5.29	4.22
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.14 kW	5.15 kW
COP Tj = -7°C	5.06	3.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW

COP Tj = 12°C	5.79	4.88
Cdh Tj = +12 °C	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.50	2.91
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3964 kWh	4967 kWh

Model: PWZSV 92H1S(1~ 230V)

Configure model	
Model name	PWZSV 92H1S(1~ 230V)
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.00 kW	3.51 kW
El input	0.82 kW	1.16 kW
COP	4.86	3.02

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	148 %
Prated	8.50 kW	7.50 kW
SCOP	5.26	3.91
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.52 kW	6.62 kW
COP Tj = -7°C	4.01	2.96
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW

COP Tj = 12°C	6.64	4.91
Cdh Tj = +12 °C	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.85 kW	6.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	8.10 kW
COP Tj = +2°C	3.96	2.87
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.87
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	161 %
Prated	8.50 kW	8.50 kW
SCOP	5.29	4.22
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.14 kW	5.15 kW
COP Tj = -7°C	5.06	3.91
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW

COP Tj = 12°C	5.79	4.88
Cdh Tj = +12 °C	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.50	2.91
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	19 W	19 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	0.00 kW
Annual energy consumption Qhe	3964 kWh	4967 kWh