

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Energy & Communications Division		
Name of testing laboratory	WPZ		
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)

### 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
Indoor water flow rate	1.05 m <sup>3</sup> /h	1.05 m <sup>3</sup> /h

### 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)

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW
COP Tj = 12°C	6.64	4.91
Cdh	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW
COP Tj = 12°C	5.79	4.88
Cdh	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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)

### 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
Indoor water flow rate	1.05 m <sup>3</sup> /h	1.05 m <sup>3</sup> /h

### 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)



This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW
COP Tj = 12°C	6.64	4.91
Cdh	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW
COP Tj = 12°C	5.79	4.88
Cdh	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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)

### 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
Indoor water flow rate	1.05 m <sup>3</sup> /h	1.05 m <sup>3</sup> /h

### 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)

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW
COP Tj = 12°C	6.64	4.91
Cdh	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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



This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW
COP Tj = 12°C	5.79	4.88
Cdh	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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)

### 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
Indoor water flow rate	1.05 m <sup>3</sup> /h	1.05 m <sup>3</sup> /h

### 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)

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW
COP Tj = 12°C	6.64	4.91
Cdh	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW
COP Tj = 12°C	5.79	4.88
Cdh	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91



This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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)

### 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
Indoor water flow rate	1.05 m <sup>3</sup> /h	1.05 m <sup>3</sup> /h

### 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)

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW
COP Tj = 12°C	6.64	4.91
Cdh	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW
COP Tj = 12°C	5.79	4.88
Cdh	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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)

### 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
Indoor water flow rate	1.05 m <sup>3</sup> /h	1.05 m <sup>3</sup> /h

### 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)



This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	4.58 kW	4.05 kW
COP Tj = +2°C	5.33	3.95
Cdh	1.00	1.00
Pdh Tj = +7°C	2.96 kW	2.60 kW
COP Tj = +7°C	6.11	4.55
Cdh	1.00	1.00
Pdh Tj = 12°C	1.66 kW	1.77 kW
COP Tj = 12°C	6.64	4.91
Cdh	0.92	0.95
Pdh Tj = Tbiv	7.86 kW	6.94 kW
COP Tj = Tbiv	3.82	2.86

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	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

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
COP Tj = +7°C	4.79	3.75
Cdh	1.00	1.00
Pdh Tj = 12°C	2.43 kW	2.43 kW
COP Tj = 12°C	5.75	4.92
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.96	2.87
Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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	1.00	1.00
Pdh Tj = +2°C	3.13 kW	3.13 kW
COP Tj = +2°C	5.71	4.61
Cdh	1.00	1.00
Pdh Tj = +7°C	2.01 kW	2.01 kW
COP Tj = +7°C	6.00	5.17
Cdh	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW
COP Tj = 12°C	5.79	4.88
Cdh	1.00	0.93
Pdh Tj = Tbiv	8.50 kW	8.10 kW
COP Tj = Tbiv	3.50	2.91

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.50 kW	8.10 kW
COP Tj = TOL	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