

Summary of	SWCV 92 Inverter	Reg. No.	041-K001-26
Certificate Holder	-	:	<del>-</del>
Name	ait-deutschland GmbH		
Address	Industriestr. 3	Zip	95359
City	Kasendorf	Country	Germany
Certification Body	BRE Energy & Commu	BRE Energy & Communications Division	
Name of testing laboratory	WPZ	WPZ	
Subtype title	SWCV 92 Inverter		
Heat Pump Type	Brine/Water		
Refrigerant	R407c	R407c	
Mass Of Refrigerant	1.25 kg	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
СОР	4.86	3.02
Indoor water flow rate	1.05 m³/h	1.05 m³/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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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





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
РТО	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
$\eta_{s}$	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





Cdh	1.00	1.00
Pdh Tj = $+7^{\circ}$ 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





#### EN 14825

	<u> </u>
Low temperature	Medium temperature
203 %	161 %
8.50 kW	8.50 kW
5.29	4.22
-22 °C	-22 °C
-22 °C	-22 °C
5.14 kW	5.15 kW
5.06	3.91
1.00	1.00
3.13 kW	3.13 kW
5.71	4.61
1.00	1.00
2.01 kW	2.01 kW
6.00	5.17
1.00	1.00
0.89 kW	1.29 kW
5.79	4.88
1.00	0.93
8.50 kW	8.10 kW
3.50	2.91
	203 %  8.50 kW  5.29  -22 °C  -22 °C  5.14 kW  5.06  1.00  3.13 kW  5.71  1.00  2.01 kW  6.00  1.00  0.89 kW  5.79  1.00  8.50 kW



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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
РТО	19 W	19 W
PSB	12 W	12 W
PCK	0 W	o 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	
СОР	4.86	3.02	
Indoor water flow rate	1.05 m³/h	1.05 m³/h	

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

### **Average Climate**

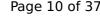
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



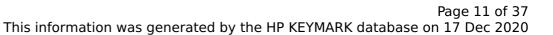


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Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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





Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
$COP Tj = +7^{\circ}C$	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
РТО	19 W	19 W
PSB	12 W	12 W
PCK	0 W	o 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
$\eta_{s}$	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 = $+7^{\circ}$ C	2.01 kW	2.01 kW
$COP Tj = +7^{\circ}C$	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



# $$\operatorname{\textit{Page}}\ 13$$ of 37 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
РТО	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
СОР	4.86	3.02
Indoor water flow rate	1.05 m³/h	1.05 m³/h

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

### **Average Climate**

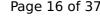
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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



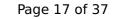


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Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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 o	generated by the HP KEYN	MARK database on 17 Dec 2020
Cdh	1.00	1.00
Pdh Tj = $+7^{\circ}$ 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
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### Colder Climate





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\ 19$ of 37$$ 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
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o 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
СОР	4.86	3.02
Indoor water flow rate	1.05 m³/h	1.05 m³/h

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

### **Average Climate**

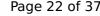
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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



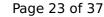


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Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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





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Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
$COP Tj = +7^{\circ}C$	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
РТО	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

	<u> </u>
Low temperature	Medium temperature
203 %	161 %
8.50 kW	8.50 kW
5.29	4.22
-22 °C	-22 °C
-22 °C	-22 °C
5.14 kW	5.15 kW
5.06	3.91
1.00	1.00
3.13 kW	3.13 kW
5.71	4.61
1.00	1.00
2.01 kW	2.01 kW
6.00	5.17
1.00	1.00
0.89 kW	1.29 kW
5.79	4.88
1.00	0.93
8.50 kW	8.10 kW
3.50	2.91
	203 %  8.50 kW  5.29  -22 °C  -22 °C  5.14 kW  5.06  1.00  3.13 kW  5.71  1.00  2.01 kW  6.00  1.00  0.89 kW  5.79  1.00  8.50 kW



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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
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o 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
СОР	4.86	3.02
Indoor water flow rate	1.05 m³/h	1.05 m³/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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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





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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
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o w	o 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
$\eta_{s}$	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





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Cdh	1.00	1.00
Pdh Tj = +7°C	5.46 kW	5.46 kW
$COP Tj = +7^{\circ}C$	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
РТО	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

	<u> </u>
Low temperature	Medium temperature
203 %	161 %
8.50 kW	8.50 kW
5.29	4.22
-22 °C	-22 °C
-22 °C	-22 °C
5.14 kW	5.15 kW
5.06	3.91
1.00	1.00
3.13 kW	3.13 kW
5.71	4.61
1.00	1.00
2.01 kW	2.01 kW
6.00	5.17
1.00	1.00
0.89 kW	1.29 kW
5.79	4.88
1.00	0.93
8.50 kW	8.10 kW
3.50	2.91
	203 %  8.50 kW  5.29  -22 °C  -22 °C  5.14 kW  5.06  1.00  3.13 kW  5.71  1.00  2.01 kW  6.00  1.00  0.89 kW  5.79  1.00  8.50 kW



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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
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o 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
СОР	4.86	3.02
Indoor water flow rate	1.05 m³/h	1.05 m³/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)





#### EN 14825

	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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



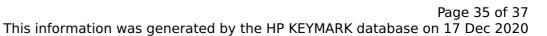


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Pdh Tj = TOL	7.85 kW	6.93 kW
COP Tj = TOL	3.78	2.82
WTOL	65 °C	65 °C
Poff	12 W	12 W
РТО	19 W	19 W
PSB	12 W	12 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3337 kWh	3963 kWh

#### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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





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	o 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

	<u> </u>
Low temperature	Medium temperature
203 %	161 %
8.50 kW	8.50 kW
5.29	4.22
-22 °C	-22 °C
-22 °C	-22 °C
5.14 kW	5.15 kW
5.06	3.91
1.00	1.00
3.13 kW	3.13 kW
5.71	4.61
1.00	1.00
2.01 kW	2.01 kW
6.00	5.17
1.00	1.00
0.89 kW	1.29 kW
5.79	4.88
1.00	0.93
8.50 kW	8.10 kW
3.50	2.91
	203 %  8.50 kW  5.29  -22 °C  -22 °C  5.14 kW  5.06  1.00  3.13 kW  5.71  1.00  2.01 kW  6.00  1.00  0.89 kW  5.79  1.00  8.50 kW



# $$\operatorname{\textit{Page}}\xspace$ 37 of 37 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	o 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