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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

#### 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	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
СОР	4.86	3.02

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Shutting on the heat transfer medium now	passeu	
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 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
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





This information was genera	ted by the HE KLIMAI	TR database on 10 Mai 2022
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 = $+7^{\circ}$ C	5.46 kW	5.46 kW
$COPTj = +7^{\circ}C$	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
РТО	19 W	19 W
PSB	12 W	12 W
РСК	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

	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 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
$COP Tj = +7^{\circ}C$	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW



	<u> </u>	
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
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

CEN heat pump KEYMARK



# 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
СОР	4.86	3.02

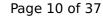
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting on the heat transfer medium now	passeu
Complete power supply failure	passed
Starting and operating test	passed

## **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 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
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





This information was genera		
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
$COPTj = +7^{\circ}C$	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
РТО	19 W	19 W
PSB	12 W	12 W
РСК	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

	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 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
$COP Tj = +7^{\circ}C$	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW



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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
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)

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
СОР	4.86	3.02

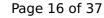
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

#### **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
$\eta_{s}$	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 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

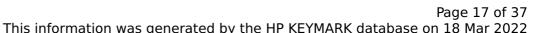




COP Tj = 12 °C	4.91 0.95 6.94 kW
Pdh Tj = Tbiv $7.86 \text{ kW}$ COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	6.94 kW
COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.85 kW	2.86
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.78	6.93 kW
	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	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	

## Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11





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Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

## Colder Climate

	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 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
$COP Tj = +7^{\circ}C$	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW



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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
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: 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
СОР	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
$\eta_{s}$	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 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

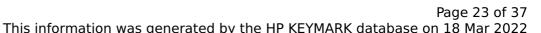




COP Tj = 12 °C	4.91 0.95 6.94 kW
Pdh Tj = Tbiv $7.86 \text{ kW}$ COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	6.94 kW
COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.85 kW	2.86
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.78	6.93 kW
	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	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	

## Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11





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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
Гbiv	-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
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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



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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
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: 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
СОР	4.86	3.02

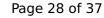
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting on the heat transfer medium now	passeu
Complete power supply failure	passed
Starting and operating test	passed

## **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 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	4.91 0.95 6.94 kW
Pdh Tj = Tbiv $7.86 \text{ kW}$ COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	6.94 kW
COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.85 kW	2.86
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.78	6.93 kW
	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	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	

## Warmer Climate

EN 14825			
		Low temperature	Medium temperature
$\eta_{S}$		193 %	156 %
Prated		8.50 kW	8.50 kW
SCOP	!	5.03	4.11
	·		





This information was genera		
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 = $+7^{\circ}$ C	5.46 kW	5.46 kW
$COPTj = +7^{\circ}C$	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
РТО	19 W	19 W
PSB	12 W	12 W
РСК	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

	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 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
$COP Tj = +7^{\circ}C$	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

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
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)**

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
СОР	4.86	3.02

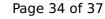
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting on the heat transfer medium now	passeu
Complete power supply failure	passed
Starting and operating test	passed

## **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 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	4.91 0.95 6.94 kW
Pdh Tj = Tbiv $7.86 \text{ kW}$ COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	6.94 kW
COP Tj = Tbiv $3.82$ Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh $7.85 \text{ kW}$	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.85 kW	2.86
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.78	6.93 kW
	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	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	

#### Warmer Climate

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	193 %	156 %
Prated	8.50 kW	8.50 kW
SCOP	5.03	4.11



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2 °C	2 °C
2 °C	2 °C
8.50 kW	8.10 kW
3.96	2.87
1.00	1.00
5.46 kW	5.46 kW
4.79	3.75
1.00	1.00
2.43 kW	2.43 kW
5.75	4.92
1.00	1.00
8.50 kW	8.10 kW
3.96	2.87
8.50 kW	8.10 kW
3.96	2.87
65 °C	65 °C
12 W	12 W
19 W	19 W
12 W	12 W
0 W	0 W
Electricity	Electricity
	2 °C  8.50 kW  3.96  1.00  5.46 kW  4.79  1.00  2.43 kW  5.75  1.00  8.50 kW  3.96  8.50 kW  3.96  65 °C  12 W  19 W  12 W





Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2257 kWh	2763 kWh

## Colder Climate

	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 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
$COP Tj = +7^{\circ}C$	6.00	5.17
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	0.89 kW	1.29 kW



# $$\operatorname{\textit{Page}}\xspace$ 37 of 37 This information was generated by the HP KEYMARK database on 18 Mar 2022

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Poff	12 W	12 W
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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