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

#### **Login**

Summary of	SWCV 62 Inverter	Reg. No.	041-K001-12		
Certificate Holder	Certificate Holder				
Name	ait-deutschland GmbH				
Address	Industriestr. 3	Zip	95359		
City	Kasendorf	Country	Germany		
Certification Body	BRE Global Limited				
Subtype title	SWCV 62 Inverter				
Heat Pump Type	Brine/Water				
Refrigerant	R407c				
Mass of Refrigerant	1.16 kg				
Certification Date	12.05.2017				
Testing basis	HP Keymark Scheme Transition Rules				

# Model: SWCV 62(H)(K)3

Configure model		
Model name	SWCV 62(H)(K)3	
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	3.32 kW	2.95 kW		
El input	0.68 kW	0.94 kW		
СОР	4.86	3.13		

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

# Average Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	44 dB(A)	44 dB(A)	

	EN 14825	
	Low temperature	Medium temperature
$\eta_{s}$	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
$COP Tj = +7^{\circ}C$	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW





COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2878 kWh

## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

#### EN 14825



	Low temperature	Medium temperature
$\eta_s$	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
$COP Tj = +7^{\circ}C$	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00





WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1402 kWh	1851 kWh

### Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	

EN 14825		
Low temperature	Medium temperature	
211 %	157 %	
5.50 kW	5.50 kW	
5.46	4.12	
-22 °C	-22 °C	
-22 °C	-22 °C	
	Low temperature  211 %  5.50 kW  5.46  -22 °C	





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Pdh Tj = -7°C	3.40 kW	3.40 kW
$COPTj = -7^{\circ}C$	5.17	3.77
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = $+2$ °C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
$COP Tj = +7^{\circ}C$	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2482 kWh	3288 kWh



# Model: SWCV 62H1

Configure model		
Model name SWCV 62H1		
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		Medium temperature
Heat output	3.32 kW	2.95 kW
El input	0.68 kW	0.94 kW
СОР	4.86	3.13

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Medium temperature	
$\eta_{s}$	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW



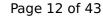


COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2878 kWh

## Warmer Climate

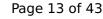
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
$COPTj = +2^{\circ}C$	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	3.60 kW	3.60 kW
$COP Tj = +7^{\circ}C$	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	1.00	1.00



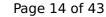


WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1402 kWh	1851 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
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This information was genera		
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W



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

PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2482 kWh	3288 kWh



# Model: WZSV 62(H)(K)3M

Configure model		
Model name	WZSV 62(H)(K)3M	
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	3.32 kW	2.95 kW	
El input	0.68 kW	0.94 kW	
СОР	4.86	3.13	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
$COP Tj = +7^{\circ}C$	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW



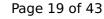


COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2878 kWh

## Warmer Climate

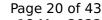
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	44 dB(A)	44 dB(A)	

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
$COPTj = +2^{\circ}C$	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	3.60 kW	3.60 kW
$COP Tj = +7^{\circ}C$	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	1.00	1.00



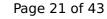


WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1402 kWh	1851 kWh

# Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	44 dB(A)	44 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
	,	1





Pdh Tj = $-7$ °C	3.40 kW	3.40 kW
$COPTj = -7^{\circ}C$	5.17	3.77
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = $+2$ °C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
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Pdh Tj = 12°C	1.30 kW	1.20 kW
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Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W



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

PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2482 kWh	3288 kWh



# **Model: PWZSV 62H3S**

Configure model		
Model name PWZSV 62H3S		
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

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.32 kW	2.95 kW	
El input	0.68 kW	0.94 kW	

3.13

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

# Average Climate

4.86



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	44 dB(A)	44 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW



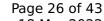


COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2878 kWh

## Warmer Climate

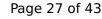
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
$COP Tj = +7^{\circ}C$	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00



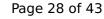


WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1402 kWh	1851 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	e Medium temperature
$\eta_{s}$	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
	'	'





This information was genera	ited by the in itelian	iii aatababe oii 10 i iai 202.
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
$COPTj = +7^{\circ}C$	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W



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

PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2482 kWh	3288 kWh

# **Model: PWZSV 62H2S**

Configure model		
Model name	PWZSV 62H2S	
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	3.32 kW	2.95 kW	
El input	0.68 kW	0.94 kW	
СОР	4.86	3.13	

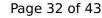
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW



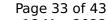


COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2878 kWh

## Warmer Climate

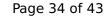
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
$COP Tj = +7^{\circ}C$	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00



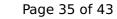


WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1402 kWh	1851 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	5.50 kW
SCOP	5.46	4.12
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C





This information was genera		
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W



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

PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2482 kWh	3288 kWh

# **Model: PWZSV 62H1S**

Configure model	
Model name	PWZSV 62H1S
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	3.32 kW	2.95 kW			
El input	0.68 kW	0.94 kW			
СОР	4.86	3.13			

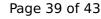
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

# Average Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	44 dB(A)	44 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	199 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.18	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW



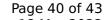


COP Tj = 12°C	5.95	4.86
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2192 kWh	2878 kWh

## Warmer Climate

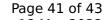
EN 12102-1			
	Low temperature Medium temperature		
Sound power level indoor	44 dB(A)	44 dB(A)	

#### EN 14825





	Low temperature	Medium temperature
$\eta_{s}$	202 %	151 %
Prated	5.50 kW	5.50 kW
SCOP	5.24	3.97
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.40 kW	5.40 kW
COP Tj = +2°C	4.15	2.84
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
$COP Tj = +7^{\circ}C$	5.00	3.59
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	6.15	4.86
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00





WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1402 kWh	1851 kWh

### Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	

EN 14825			
		Low temperature	Medium temperature
$\eta_{s}$		211 %	157 %
Prated		5.50 kW	5.50 kW
SCOP		5.46	4.12
Tbiv		-22 °C	-22 °C
TOL		-22 °C	-22 °C





This information was genera		
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	1.40 kW	1.40 kW
$COPTj = +7^{\circ}C$	6.36	5.12
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.54	4.81
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.40 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	7 W	7 W
PSB	7 W	7 W



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

PCK	9 W	9 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2482 kWh	3288 kWh