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Summary of	HPS.Z 6kW/230 V	Reg. No.	011-1W0437			
Certificate Holder	Certificate Holder					
Name	Kospel SP. z o.o.	Kospel SP. z o.o.				
Address	ul. Olchowa 1	ul. Olchowa 1 Zip 75-136				
City	Koszalin	Country	Poland			
Certification Body	DIN CERTCO Gesellschaft	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH				
Subtype title	HPS.Z 6kW/230 V	HPS.Z 6kW/230 V				
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water				
Refrigerant	R32	R32				
Mass of Refrigerant	0.95 kg	0.95 kg				
Certification Date	15.12.2021	15.12.2021				
Testing basis	HP KEYMARK certification	HP KEYMARK certification scheme rules rev. 9				



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Model: HPSO-6/230 + HPSI-6

Configure model			
Model name	HPSO-6/230 + HPSI-6		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
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	6.02 kW	4.36 kW	
El input	1.23 kW	1.80 kW	
СОР	4.90	2.42	

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

Average Climate

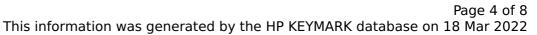


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EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor	62 dB(A)	62 dB(A)		

EN 14825				
		Low temperature	Medium temperature	
Pdesignh	3.70 kW			
η_{s}	175 %	125 %		
Prated	5.10 kW	4.10 kW		
SCOP	4.45	3.20		
Tbiv	-7 °C	-7 °C		
TOL	-20 °C	-20 °C		
Pdh Tj = -7°C	4.53 kW	3.31 kW		
$COP Tj = -7^{\circ}C$	2.85	1.89		
Cdh Tj = -7 °C	0.99	0.99		
Pdh Tj = +2°C	3.04 kW	2.65 kW		
$COP Tj = +2^{\circ}C$	4.30	3.18		
Cdh Tj = +2 °C	0.99	0.99		
Pdh Tj = +7°C	3.11 kW	2.74 kW		
$COP Tj = +7^{\circ}C$	5.93	4.76		

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Cdh Tj = +7 °C 0.99 0.99 Pdh Tj = 12°C 3.60 kW 3.27 kW COP Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 0.99 0.99 WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 kWh 8383 kWh			
COP Tj = 12°C 8.40 6.35 Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL <	Cdh Tj = +7 °C	0.99	0.99
Cdh Tj = +12 °C 0.99 0.99 Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.99 0.99 WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Annual energy consumption Qhe 10549 8383 kWh	Pdh Tj = 12°C	3.60 kW	3.27 kW
Pdh Tj = Tbiv 4.53 kW 3.59 kW COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.99 0.99 WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW	COP Tj = 12°C	8.40	6.35
COP Tj = Tbiv 2.85 1.89 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL 2.59 1.49 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL 0.99 0.99 WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW	Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 4.08 kW 2.86 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < 2.59 1.49 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 0.99 0.99 WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater Annual energy consumption Qhe 10549 8383 kWh	Pdh Tj = Tbiv	4.53 kW	3.59 kW
Tdesignh 2.59 1.49 COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	2.85	1.89
Tdesignh Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < 0.99 0.99 WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater Annual energy consumption Qhe 10549 8383 kWh		4.08 kW	2.86 kW
Tdesignh WTOL 55 °C 55 °C Poff 15 W 15 W PTO 0 W 0 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.000 kW Annual energy consumption Qhe 10549 8383 kWh		2.59	1.49
Poff 15 W 15 W PTO 0 W 0 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh		0.99	0.99
PTO 0 W 0 W PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh	WTOL	55 °C	55 °C
PSB 0 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh	Poff	15 W	15 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh	РТО	0 W	o w
Supplementary Heater: Type of energy input Electricity Electricity 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh	PSB	o w	o w
Supplementary Heater: PSUP 1.04 kW 1.20 kW Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh	PCK	o w	o w
Backup Heater 0.00 kW Annual energy consumption Qhe 10549 8383 kWh	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 10549 8383 kWh	Supplementary Heater: PSUP	1.04 kW	1.20 kW
Annual energy consumption Qhe 10549 kWh 8383 kWh	Backup Heater	0.00 kW	
	Annual energy consumption Qhe		8383 kWh

Warmer Climate



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EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor	62 dB(A)	62 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	225 %	156 %	
Prated	5.70 kW	4.10 kW	
SCOP	5.70	3.97	
Tbiv	2 °C	2 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = +2°C	5.01 kW	4.08 kW	
COP Tj = +2°C	4.30	1.98	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	3.28 kW	2.95 kW	
$COP Tj = +7^{\circ}C$	4.86	3.25	
Cdh Tj = +7 °C	0.99	0.99	
Pdh Tj = 12°C	3.43 kW	3.31 kW	
COP Tj = 12°C	7.69	5.59	
Cdh Tj = +12 °C	0.99	0.99	

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Pdh Tj = Tbiv	5.01 kW	4.08 kW
COP Tj = Tbiv	2.97	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.01 kW	4.08 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	0 W	0 W
PSB	0 W	0 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	6687 kWh	5450 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor	62 dB(A)	62 dB(A)		

EN 14825



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	Low temperature	Medium temperature
η_{s}	135 %	90 %
Prated	4.80 kW	3.30 kW
SCOP	3.46	2.32
Tbiv	-15 °C	-15 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	3.10 kW	2.10 kW
COP Tj = -7°C	2.89	1.81
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	2.40 kW	2.09 kW
COP Tj = +2°C	4.40	2.72
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	3.14 kW	2.88 kW
COP Tj = +7°C	6.20	4.76
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.43 kW	3.34 kW
COP Tj = 12°C	8.00	6.85
Cdh Tj = +12 °C	0.99	0.99
Pdh Tj = Tbiv	3.90 kW	2.67 kW
COP Tj = Tbiv	2.11	1.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.30 kW	1.06 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.21	0.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	55 °C	55 °C
Poff	15 W	15 W
РТО	o w	o w
PSB	o w	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.78 kW	3.27 kW
Annual energy consumption Qhe	11493 kWh	7870 kWh