

Summary of	HPA-O 6/8 CS Plus	Reg. No.	011-1W0284	
Certificate Holder				
Name	STIEBEL ELTRON GmbH & Co KG	STIEBEL ELTRON GmbH & Co KG		
Address	Dr. Stiebel Straße 33	Zip	37603	
City	Holzminden	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Konf	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	RISE Research Institutes of Swede	RISE Research Institutes of Sweden AB		
Subtype title	HPA-O 6/8 CS Plus			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	2 kg			
Certification Date	03.12.2018			
Testing basis	HP KEYMARK certification scheme rules rev. no. 5			



Model: HPA-O 6 CS Plus + HSBB 200, HSBB 200 S

General Data	
Power supply	1x230V 50Hz

Heating

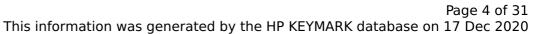
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	125 %
Prated	6.80 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	6.02 kW	5.10 kW
COP Tj = -7°C	2.90	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	3.89 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = +7°C	3.50 kW	2.60 kW
COP Tj = +7°C	6.60	4.56
Cdh	0.90	0.90





Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	6.02 kW	6.10 kW
COP Tj = Tbiv	2.90	2.28
Pdh Tj = TOL	6.30 kW	5.10 kW
COP Tj = TOL	2.89	1.97
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.50 kW	7.55 kW
Annual energy consumption Qhe	3120 kWh	4865 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	
Heating up time	01:50 h:min	



Model: HPA-O 6 CS Plus, low temperature, all climates

General Data	
Power supply	1x230V 50Hz

Heating

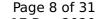
EN 14511-2		
	Low temperature	
Heat output	4.86 kW	
El input	1.02 kW	
СОР	4.76	
Indoor water flow rate	1.34 m³/h	

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



EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

EN 14825	
	Low temperature
η_{s}	177 %
Prated	6.80 kW
SCOP	4.50
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	6.02 kW
COP Tj = -7°C	2.90
Cdh	0.90
Pdh Tj = +2°C	3.89 kW
COP Tj = +2°C	4.35
Cdh	0.90
Pdh Tj = $+7^{\circ}$ C	3.50 kW
COP Tj = +7°C	6.60
Cdh	0.90
Pdh Tj = 12°C	3.39 kW
	·





This information was generated by the HP KEYMARK database on 17 Dec 2020 $COP Tj = 12^{\circ}C$ 6.78 0.90 Cdh Pdh Tj = Tbiv6.02 kW COP Tj = Tbiv2.90 Pdh Tj = TOL6.30 kW COPTj = TOL2.80 0.90 Cdh WTOL 60 °C Poff 17 W PTO 30 W **PSB** 17 W **PCK** 5 W Supplementary Heater: Type of energy input electricity

Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

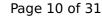
0.50 kW

3120 kWh

EN 14825



	Low temperature
ls	213 %
Prated	6.30 kW
SCOP	5.41
⁻ biv	2 °C
OL	2 °C
dh Tj = +2°C	6.30 kW
COP Tj = +2°C	3.60
dh	0.90
dh Tj = +7°C	4.10 kW
$OPTj = +7^{\circ}C$	5.25
dh	0.90
dh Tj = 12°C	3.37 kW
OP Tj = 12°C	6.61
dh	0.90
dh Tj = Tbiv	6.30 kW
OP Tj = Tbiv	3.60
dh Tj = TOL	6.30 kW
OP Tj = TOL	3.60
Cdh	0.90



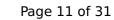


WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	1556 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

EN 14825	
Low temperature	
151 %	
5.80 kW	
3.85	
-15 °C	
-20 °C	





This information was generated by the HF	KETMANK database on 17 Dec 2020
Pdh Tj = -7°C	3.51 kW
COP Tj = -7°C	3.30
Cdh	0.90
Pdh Tj = +2°C	2.28 kW
COP Tj = +2°C	4.55
Cdh	0.90
Pdh Tj = $+7^{\circ}$ C	2.79 kW
$COPTj = +7^{\circ}C$	5.81
Cdh	0.90
Pdh Tj = 12°C	3.39 kW
COP Tj = 12°C	6.71
Cdh	0.90
Pdh Tj = Tbiv	5.80 kW
COP Tj = Tbiv	2.79
Pdh Tj = TOL	4.50 kW
COP Tj = TOL	2.40
Cdh	0.90
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W



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PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	5.80 kW
Annual energy consumption Qhe	3713 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.80
COP Tj = -15 °C (if TOL< -20 °C)	2.70
Cdh	0.90



Model: HPA-O 8 CS Plus + HSBB 200, HSBB 200S

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

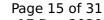
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14825		
	Low temperature	Medium temperature
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η_{s}	177 %	125 %
Prated	9.19 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	8.13 kW	5.10 kW
$COPTj = -7^{\circ}C$	2.72	1.97
Cdh	0.90	0.90
Pdh Tj = $+2$ °C	5.22 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	3.50 kW	2.60 kW
$COPTj = +7^{\circ}C$	6.60	4.56
Cdh	0.90	0.90
Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.13 kW	6.10 kW
COP Tj = Tbiv	2.72	2.28
Pdh Tj = TOL	7.92 kW	5.10 kW
COP Tj = TOL	2.64	1.97

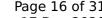




Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.27 kW	7.55 kW
Annual energy consumption Qhe	4218 kWh	4865 kWh

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
СОР	2.70
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 I
Heating up time	01:50 h:min



Model: HPA-O 8 CS Plus, low temperature, all climates

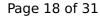
Genera	al Data
Power supply	1x230V 50Hz

Heating

EN 1451	11-2
	Low temperature
Heat output	4.86 kW
El input	1.02 kW
СОР	4.76
Indoor water flow rate	1.34 m³/h

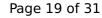
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14825	
	Low temperature





This information was generated t	Jy the Hr KLIMAKK database on 17 Dec 2020
η_{s}	177 %
Prated	9.19 kW
SCOP	4.50
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	8.13 kW
$COP Tj = -7^{\circ}C$	2.72
Cdh	0.90
Pdh Tj = +2°C	5.22 kW
COP Tj = +2°C	4.35
Cdh	0.90
Pdh Tj = $+7^{\circ}$ C	3.50 kW
$COP Tj = +7^{\circ}C$	6.60
Cdh	0.90
Pdh Tj = 12°C	3.39 kW
COP Tj = 12°C	6.78
Cdh	0.90
Pdh Tj = Tbiv	8.13 kW
COP Tj = Tbiv	2.72
Pdh Tj = TOL	7.92 kW
COP Tj = TOL	2.64





Cdh	0.90
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.27 kW
Annual energy consumption Qhe	4218 kWh

EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

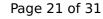
Warmer Climate

EN 14825	
	Low temperature
η_{s}	215 %
Prated	7.60 kW
SCOP	5.44
Tbiv	2 °C





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TOL	2 °C
Pdh Tj = $+2$ °C	7.60 kW
COP Tj = +2°C	3.44
Cdh	0.90
Pdh Tj = $+7^{\circ}$ C	4.89 kW
$COPTj = +7^{\circ}C$	5.15
Cdh	0.90
Pdh Tj = 12°C	3.37 kW
COP Tj = 12°C	6.61
Cdh	0.90
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	3.44
Pdh Tj = TOL	7.60 kW
COP Tj = TOL	3.44
Cdh	0.90
WTOL	60 °C
Poff	17 W
PTO	30 W
PSB	17 W
РСК	5 W
Supplementary Heater: Type of energy input	electricity



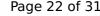


Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	1867 kWh

EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

Colder Climate

EN 14825	
	Low temperature
η_{s}	147 %
Prated	8.70 kW
SCOP	3.75
Tbiv	-15 °C
TOL	-20 °C
Pdh Tj = -7°C	5.27 kW
$COP Tj = -7^{\circ}C$	3.17
Cdh	0.90
Pdh Tj = +2°C	3.21 kW
COP Tj = +2°C	4.46
Cdh	0.90





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Pdh Tj = +7°C	2.79 kW
$COP Tj = +7^{\circ}C$	5.81
Cdh	0.90
Pdh Tj = 12°C	3.39 kW
COP Tj = 12°C	6.71
Cdh	0.90
Pdh Tj = Tbiv	7.10 kW
COP Tj = Tbiv	2.54
Pdh Tj = TOL	5.80 kW
COP Tj = TOL	2.19
Cdh	0.90
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
РСК	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	8.70 kW
Annual energy consumption Qhe	5722 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.10
COP Tj = -15 °C (if TOL< -20 °C)	2.54
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Cdh	0.90
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EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)



Model: HPA-O 6 CS Plus + HSBC 200, HSBC 200S

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

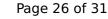
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



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	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

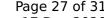
EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	125 %
Prated	6.80 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	6.02 kW	5.10 kW
COP Tj = -7°C	2.90	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	3.89 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = +7°C	3.50 kW	2.60 kW
COP Tj = +7°C	6.60	4.56
Cdh	0.94	0.90





Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	6.02 kW	6.10 kW
COP Tj = Tbiv	2.90	2.28
Pdh Tj = TOL	6.30 kW	5.10 kW
COP Tj = TOL	2.80	1.97
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.50 kW	7.55 kW
Annual energy consumption Qhe	3120 kWh	4865 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$ 27 of 31 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	
Heating up time	01:50 h:min	



Model: HPA-O 8 CS Plus + HSBC 200, HSBC 200S

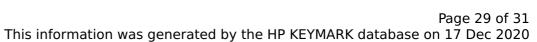
General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

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

EN 14825		
	Low temperature	Medium temperature
	-	





η_{S}	177 %	125 %
Prated	9.19 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	8.13 kW	5.10 kW
COP Tj = -7°C	2.72	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	5.22 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	3.50 kW	2.60 kW
$COP Tj = +7^{\circ}C$	6.60	4.56
Cdh	0.90	0.90
Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.13 kW	6.10 kW
COP Tj = Tbiv	2.72	2.28
Pdh Tj = TOL	7.92 kW	5.10 kW
COP Tj = TOL	2.64	1.97

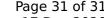




Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.27 kW	7.55 kW
Annual energy consumption Qhe	4218 kWh	4865 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\ 31$$ of 31 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	
Heating up time	01:50 h:min	