

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	HPA-O 6/8 CS Plus	Reg. No.	011-1W0284
Certificate Holder			
Name	STIEBEL ELTRON GmbH & Co KG		
Address	Dr. Stiebel Straße 33	Zip	37603
City	Holzminden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	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
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
COP	4.76	2.73
Indoor water flow rate	0.80 m <sup>3</sup> /h	1.34 m <sup>3</sup> /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

## Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

### 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
$\eta_s$	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

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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
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	0.50 kW	7.55 kW
Annual energy consumption Qhe	3120 kWh	4865 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	113 %
COP	2.70
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 l
Heating up time	01:50 h:min

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

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

#### Low temperature

Heat output	4.86 kW
El input	1.02 kW
COP	4.76
Indoor water flow rate	1.34 m <sup>3</sup> /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

## Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

### EN 12102-1

	Low temperature
Sound power level outdoor	57 dB(A)

### EN 14825

	Low temperature
$\eta_s$	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°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°C	6.78
Cdh	0.90
Pdh Tj = Tbiv	6.02 kW
COP Tj = Tbiv	2.90
Pdh Tj = TOL	6.30 kW
COP Tj = TOL	2.80
Cdh	0.90
WTOL	60 °C
Poff	17 W
PTO	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.50 kW
Annual energy consumption Qhe	3120 kWh

## Warmer Climate

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level outdoor	57 dB(A)

<b>EN 14825</b>
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This information was generated by the HP KEYMARK database on 17 Dec 2020

	<b>Low temperature</b>
$\eta_s$	213 %
Prated	6.30 kW
SCOP	5.41
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	6.30 kW
COP Tj = +2°C	3.60
Cdh	0.90
Pdh Tj = +7°C	4.10 kW
COP Tj = +7°C	5.25
Cdh	0.90
Pdh Tj = 12°C	3.37 kW
COP Tj = 12°C	6.61
Cdh	0.90
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	3.60
Pdh Tj = TOL	6.30 kW
COP Tj = TOL	3.60
Cdh	0.90

This information was generated by the HP KEYMARK database on 17 Dec 2020

WTOL	60 °C
Poff	17 W
PTO	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

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level outdoor	57 dB(A)

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	151 %
Prated	5.80 kW
SCOP	3.85
Tbiv	-15 °C
TOL	-20 °C

This information was generated by the HP KEYMARK 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°C	2.79 kW
COP Tj = +7°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
PTO	30 W
PSB	17 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	5.80 kW
Annual energy consumption Q <sub>he</sub>	3713 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	5.80
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	2.70
C <sub>dh</sub>	0.90

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

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
COP	4.76	2.73
Indoor water flow rate	0.80 m <sup>3</sup> /h	1.34 m <sup>3</sup> /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

## Average Climate

### EN 14825

	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

$\eta_s$	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°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	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

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

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	113 %
COP	2.70
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 l
Heating up time	01:50 h:min



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

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature
Heat output	4.86 kW
El input	1.02 kW
COP	4.76
Indoor water flow rate	1.34 m <sup>3</sup> /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

## Average Climate

### EN 14825

	Low temperature
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This information was generated by the HP KEYMARK database on 17 Dec 2020

$\eta_s$	177 %
Prated	9.19 kW
SCOP	4.50
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	8.13 kW
COP Tj = -7°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°C	3.50 kW
COP Tj = +7°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

This information was generated by the HP KEYMARK database on 17 Dec 2020

Cdh	0.90
WTOL	60 °C
Poff	17 W
PTO	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

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level outdoor	57 dB(A)

## Warmer Climate

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	215 %
Prated	7.60 kW
SCOP	5.44
Tbiv	2 °C

This information was generated by the HP KEYMARK database on 17 Dec 2020

TOL	2 °C
Pdh Tj = +2°C	7.60 kW
COP Tj = +2°C	3.44
Cdh	0.90
Pdh Tj = +7°C	4.89 kW
COP Tj = +7°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
PCK	5 W
Supplementary Heater: Type of energy input	electricity

This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q <sub>he</sub>	1867 kWh

<b>EN 12102-1</b>	
	<b>Low temperature</b>
Sound power level outdoor	57 dB(A)

## Colder Climate

<b>EN 14825</b>	
	<b>Low temperature</b>
$\eta_s$	147 %
Prated	8.70 kW
SCOP	3.75
T <sub>biv</sub>	-15 °C
TOL	-20 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	5.27 kW
COP T <sub>j</sub> = -7°C	3.17
C <sub>dh</sub>	0.90
P <sub>dh</sub> T <sub>j</sub> = +2°C	3.21 kW
COP T <sub>j</sub> = +2°C	4.46
C <sub>dh</sub>	0.90

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = +7°C	2.79 kW
COP Tj = +7°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
PTO	30 W
PSB	17 W
PCK	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
COP	4.76	2.73
Indoor water flow rate	0.80 m <sup>3</sup> /h	1.34 m <sup>3</sup> /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

## Average Climate



This information was generated by the HP KEYMARK database on 17 Dec 2020

### 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
$\eta_s$	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
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	0.50 kW	7.55 kW
Annual energy consumption Qhe	3120 kWh	4865 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	113 %
COP	2.70
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 l
Heating up time	01:50 h:min

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

## General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
COP	4.76	2.73
Indoor water flow rate	0.80 m <sup>3</sup> /h	1.34 m <sup>3</sup> /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

## Average Climate

### EN 14825

	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

$\eta_s$	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°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	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

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

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	113 %
COP	2.70
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 l
Heating up time	01:50 h:min