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#### This information was generated by the HP KEYMARK database on 23 Jun 2022

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Summary of	HPA-O 3/4 CS Plus	Reg. No.	011-1W0283	
Certificate Holder				
Name	STIEBEL ELTRON GmbH & Co	STIEBEL ELTRON GmbH & Co KG		
Address	Dr. Stiebel Straße 33	Zip	37603	
City	Holzminden	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	HPA-O 3/4 CS Plus	HPA-O 3/4 CS Plus		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	1.1 kg	1.1 kg		
Certification Date	03.12.2018	03.12.2018		
Testing basis	HP KEYMARK certification scheme rules rev. no. 5			

# Model: HPA-O 3 CS Plus, low temperature, all climates

Configure model		
Model name	HPA-O 3 CS Plus, low temperature, all climates	
Application	Heating (low temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

	General Data	
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	
Heat output	2.73 kW	
El input	0.58 kW	
СОР	4.70	

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

### Warmer Climate



EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825	
	Low temperature
$\eta_{s}$	200 %
Prated	3.00 kW
SCOP	5.07
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	3.04 kW
COP Tj = +2°C	3.39
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	1.95 kW
$COP Tj = +7^{\circ}C$	5.18
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.63 kW
COP Tj = 12°C	6.14
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	3.04 kW





COP Tj = Tbiv	3.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.39
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
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	791 kWh

### Colder Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825	
	Low temperature
$\eta_s$	148 %





Prated	3.38 kW
SCOP	3.77
Tbiv	-15 °C
TOL	-20 °C
Pdh Tj = -7°C	2.05 kW
COP Tj = -7°C	3.20
Cdh Tj = -7 °C	0.900
Pdh Tj = $+2^{\circ}$ C	1.25 kW
COP Tj = +2°C	4.55
Cdh Tj = +2 °C	0.900
Pdh Tj = $+7^{\circ}$ C	1.39 kW
$COP Tj = +7^{\circ}C$	6.03
Cdh Tj = $+7$ °C	0.900
Pdh Tj = 12°C	1.64 kW
COP Tj = 12°C	6.22
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	2.76 kW
COP Tj = Tbiv	2.56
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
	,



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	3.38 kW
Annual energy consumption Qhe	2208 kWh
Pdh Tj = -15°C (if TOL<-20°C)	
COP Tj = $-15$ °C (if TOL< $-20$ °C)	
Cdh Tj = -15 °C	

## Average Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825		
		Low temperature
$\eta_{s}$		166 %
Prated		3.62 kW





<u> </u>	TE TIP KLIMAKK database on 25 juli 202.
SCOP	4.22
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	3.20 kW
$COP Tj = -7^{\circ}C$	2.88
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	1.95 kW
$COPTj = +2^{\circ}C$	4.11
Cdh Tj = +2 °C	0.900
Pdh Tj = $+7^{\circ}$ C	1.59 kW
$COP Tj = +7^{\circ}C$	5.81
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.66 kW
COP Tj = 12°C	6.34
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	3.20 kW
COP Tj = Tbiv	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.04 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.900
WTOL	60 °C



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Poff	17 W
PTO	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.58 kW
Annual energy consumption Qhe	1771 kWh



# Model: HPA-O 3 CS Plus + HSBB 200 classic, HSBB 200 S classic

Configure model		
Model name	HPA-O 3 CS Plus + HSBB 200 classic, HSBB 200 S classic	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.73 kW	1.92 kW
El input	0.58 kW	0.74 kW
СОР	4.70	2.59

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 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	166 %	116 %
Prated	3.62 kW	3.83 kW
SCOP	4.22	2.96
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	3.20 kW	2.79 kW
$COPTj = -7^{\circ}C$	2.88	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = $+2$ °C	1.95 kW	2.01 kW
COP Tj = +2°C	4.11	2.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = $+7^{\circ}$ C	1.59 kW	1.25 kW
COP Tj = +7°C	5.81	4.13
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	1.66 kW	1.54 kW
COP Tj = 12°C	6.34	5.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.20 kW	3.09 kW
COP Tj = Tbiv	2.88	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.04 kW	2.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	0.58 kW	3.83 kW
Annual energy consumption Qhe	1771 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Heating up time	1:50 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	



# Model: HPA-O 3 CS Plus + HSBC 200, HSBC 200 S

Configure model			
Model name HPA-O 3 CS Plus + HSBC 200, HSBC 200 S			
Application Heating + DHW + low temp			
Units Indoor + Outdoor			
Climate Zone n/a			
Reversibility Yes			
Cooling mode application (optional)	n/a		

General Data			
Power supply 1x230V 50Hz			

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.73 kW	1.92 kW
El input	0.58 kW	0.74 kW
СОР	4.70	2.59

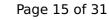
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	166 %	116 %	
Prated	3.62 kW	3.83 kW	
SCOP	4.22	2.96	
Tbiv	-7 °C	-5 °C	
TOL	-10 °C	-7 °C	
Pdh Tj = -7°C	3.20 kW	2.79 kW	
$COPTj = -7^{\circ}C$	2.88	2.01	
Cdh Tj = -7 °C	0.900	0.900	
Pdh Tj = $+2$ °C	1.95 kW	2.01 kW	
COP Tj = +2°C	4.11	2.94	
Cdh Tj = +2 °C	0.900	0.900	
Pdh Tj = $+7^{\circ}$ C	1.59 kW	1.25 kW	
COP Tj = +7°C	5.81	4.13	
Cdh Tj = +7 °C	0.900	0.900	





Pdh Tj = 12°C	1.66 kW	1.54 kW
COP Tj = 12°C	6.34	5.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.20 kW	3.09 kW
COP Tj = Tbiv	2.88	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.04 kW	2.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	0.58 kW	3.83 kW
Annual energy consumption Qhe	1771 kWh	2672 kWh

# Domestic Hot Water (DHW)

# Average Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Heating up time	1:50 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	

# Model: HPA-O 4 CS Plus + HSBC 200, HSBC 200 S

Configure model		
Model name	HPA-O 4 CS Plus + HSBC 200, HSBC 200 S	
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.73 kW	1.92 kW
El input	0.58 kW	0.74 kW
СОР	4.70	2.59

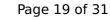
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	116 %
Prated	4.59 kW	3.83 kW
SCOP	4.20	2.96
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	4.03 kW	2.79 kW
COP Tj = -7°C	2.67	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.53 kW	2.01 kW
COP Tj = +2°C	4.00	2.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.63 kW	1.25 kW
COP Tj = +7°C	6.06	4.13
Cdh Tj = +7 °C	0.900	0.900





Pdh Tj = 12°C	1.67 kW	1.54 kW
COP Tj = 12°C	6.43	5.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.03 kW	3.09 kW
COP Tj = Tbiv	2.67	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	2.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	0.79 kW	3.83 kW
Annual energy consumption Qhe	2258 kWh	2672 kWh

# Domestic Hot Water (DHW)

# Average Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Heating up time	1:50 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	



# Model: HPA-O 4 CS Plus + HSBB 200 classic, HSBB 200 S classic

Configure model		
Model name	HPA-O 4 CS Plus + HSBB 200 classic, HSBB 200 S classic	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	2.73 kW	1.92 kW	
El input	0.58 kW	0.74 kW	
СОР	4.70	2.59	

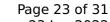
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	116 %
Prated	4.59 kW	3.83 kW
SCOP	4.20	2.96
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	4.03 kW	2.79 kW
COP Tj = -7°C	2.67	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.53 kW	2.01 kW
COP Tj = +2°C	4.00	2.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.63 kW	1.25 kW
COP Tj = +7°C	6.06	4.13
Cdh Tj = +7 °C	0.900	0.900





# This information was generated by the HP KEYMARK database on 23 Jun 2022 Pdh Tj = $12^{\circ}$ C 1.67 kW 1.54 kW

COP Tj = 12°C	6.43	5.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.03 kW	3.09 kW
COP Tj = Tbiv	2.67	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	2.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
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	0.79 kW	3.83 kW
Annual energy consumption Qhe	2258 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Heating up time	1:50 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	

# Model: HPA-O 4 CS Plus, low temperature, all climates

Configure model	
Model name HPA-O 4 CS Plus, low temperature, all climates	
Application	Heating (low temp)
Units	Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2	
Low temperature	
Heat output	2.73 kW
El input	0.58 kW
СОР	4.70

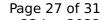
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Warmer Climate



EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825	
	Low temperature
$\eta_{s}$	203 %
Prated	3.48 kW
SCOP	5.14
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	3.48 kW
COP Tj = +2°C	3.23
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	2.51 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.64 kW
COP Tj = 12°C	6.23
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	3.48 kW



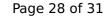


COP Tj = Tbiv	3.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	60 °C
Poff	17 W
PTO	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	904 kWh

### Colder Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825	
	Low temperature
$\eta_{s}$	147 %





Prated	4.29 kW
SCOP	3.76
Tbiv	-15 °C
TOL	-20 °C
Pdh Tj = -7°C	2.94 kW
COP Tj = -7°C	3.12
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	1.75 kW
COP Tj = +2°C	4.61
Cdh Tj = +2 °C	0.900
Pdh Tj = $+7^{\circ}$ C	1.42 kW
$COP Tj = +7^{\circ}C$	6.34
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.65 kW
COP Tj = 12°C	6.27
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	3.48 kW
COP Tj = Tbiv	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900



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	4.29 kW
Annual energy consumption Qhe	2812 kWh
Pdh Tj = -15°C (if TOL<-20°C)	
COP Tj = -15°C (if TOL<-20°C)	
Cdh Tj = -15 °C	

# Average Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825		
	Low temperature	
$\eta_{S}$	165 %	
Prated	4.59 kW	
rated	4.5	





	THE TIP KL TMAKK database on 25 Juli 202
SCOP	4.20
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	4.03 kW
COP Tj = -7°C	2.67
Cdh Tj = -7 °C	0.900
Pdh Tj = $+2$ °C	2.53 kW
COP Tj = +2°C	4.00
Cdh Tj = +2 °C	0.900
Pdh Tj = $+7^{\circ}$ C	1.63 kW
COP Tj = +7°C	6.06
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.67 kW
COP Tj = 12°C	6.43
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	4.03 kW
COP Tj = Tbiv	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	60 °C



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Poff	17 W
PTO	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.79 kW
Annual energy consumption Qhe	2258 kWh