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Summary of	HPA-O 3/4 CS Plus	Reg. No.	011-1W0283
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		
Subtype title	HPA-O 3/4 CS Plus		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.1 kg		
Certification Date	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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

Average Climate

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

EN 12102-1

	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825

	Low temperature
η_s	166 %
Prated	3.62 kW
SCOP	4.22
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	3.20 kW
COP Tj = -7°C	2.88
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	1.95 kW
COP Tj = +2°C	4.11
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	1.59 kW
COP Tj = +7°C	5.81
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.66 kW

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

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
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

Warmer Climate

EN 14825	
	Low temperature
η_s	200 %
Prated	3.00 kW

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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°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

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

PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q _{he}	791 kWh

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

Colder Climate

EN 14825	
	Low temperature
η_s	148 %
Prated	3.38 kW
SCOP	3.77
T _{biv}	-15 °C
TOL	-20 °C
P _{dh} T _j = -7°C	2.05 kW
COP T _j = -7°C	3.20
C _{dh} T _j = -7 °C	0.900
P _{dh} T _j = +2°C	1.25 kW

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

COP Tj = +2°C	4.55
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	1.39 kW
COP Tj = +7°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
PTO	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

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

Pdh Tj = -15°C (if TOL<-20°C)	
COP Tj = -15°C (if TOL<-20°C)	
Cdh Tj = -15 °C	

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

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
COP	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
η_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
COP Tj = -7°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°C	1.59 kW	1.25 kW
COP Tj = +7°C	5.81	4.13
Cdh Tj = +7 °C	0.900	0.900

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

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
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	0.58 kW	3.83 kW
Annual energy consumption Qhe	1771 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	113 %
COP	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 l

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
COP	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
η_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
COP Tj = -7°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°C	1.59 kW	1.25 kW
COP Tj = +7°C	5.81	4.13
Cdh Tj = +7 °C	0.900	0.900

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

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
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	0.58 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 η_{DHW}	113 %
COP	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 l

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
COP	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
η_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 18 Mar 2022

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
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	0.79 kW	3.83 kW
Annual energy consumption Qhe	2258 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	113 %
COP	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 l

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
COP	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
η_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 18 Mar 2022

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
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	0.79 kW	3.83 kW
Annual energy consumption Qhe	2258 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	113 %
COP	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 l

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

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

Average Climate

EN 12102-1

	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825

	Low temperature
η_s	165 %
Prated	4.59 kW
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°C	1.63 kW
COP Tj = +7°C	6.06
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.67 kW

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

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
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

Warmer Climate

EN 14825	
	Low temperature
η_s	203 %
Prated	3.48 kW

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

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

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

PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q _{he}	904 kWh

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

Colder Climate

EN 14825	
	Low temperature
η_s	147 %
Prated	4.29 kW
SCOP	3.76
T _{biv}	-15 °C
TOL	-20 °C
P _{dh} T _j = -7°C	2.94 kW
COP T _j = -7°C	3.12
C _{dh} T _j = -7 °C	0.900
P _{dh} T _j = +2°C	1.75 kW

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

COP Tj = +2°C	4.61
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	1.42 kW
COP Tj = +7°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

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

Pdh Tj = -15°C (if TOL<-20°C)	
COP Tj = -15°C (if TOL<-20°C)	
Cdh Tj = -15 °C	

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