

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

[Login](#)

Summary of	HPA-O 13 S Premium, HPA-O 13 CS Premium		Reg. No.	011-1W0231
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 13 S Premium, HPA-O 13 CS Premium			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	4.7 kg			
Certification Date	08.01.2018			

Model: HPA-O 13 S Premium

Configure model	
Model name	HPA-O 13 S Premium
Application	Heating (medium temp)
Units	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	8.00 kW	7.52 kW
El input	1.66 kW	2.33 kW
COP	4.82	3.23

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	136 %
Prated	15.00 kW	15.00 kW
SCOP	4.39	3.47
Tbiv	-5 °C	-5 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	13.00 kW	13.80 kW
COP Tj = -7°C	3.02	2.43
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	8.00 kW	7.70 kW
COP Tj = +2°C	4.40	3.37
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	8.10 kW	7.90 kW
COP Tj = +7°C	5.64	4.45
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	9.10 kW	9.00 kW

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

COP Tj = 12°C	8.11	6.66
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	11.80 kW	12.40 kW
COP Tj = Tbiv	3.18	2.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW	13.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	2.28
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	7055 kWh	8940 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	206 %	155 %
Prated	8.00 kW	7.00 kW
SCOP	5.21	3.95

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

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.90 kW	7.40 kW
COP Tj = +2°C	3.89	2.59
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	8.10 kW	7.70 kW
COP Tj = +7°C	5.10	3.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	9.10 kW	9.00 kW
COP Tj = 12°C	7.72	6.11
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	7.90 kW	7.40 kW
COP Tj = Tbiv	3.89	2.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.60 kW	19.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.29
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity

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

Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2050 kWh	2367 kWh

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	153 %	126 %
Prated	21.00 kW	22.00 kW
SCOP	3.89	3.23
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	12.80 kW	13.50 kW
COP T _j = -7°C	3.21	2.65
C _{dh} T _j = -7 °C	0.90	0.90
P _{dh} T _j = +2°C	8.10 kW	7.90 kW
COP T _j = +2°C	4.75	3.75
C _{dh} T _j = +2 °C	0.90	0.90
P _{dh} T _j = +7°C	8.20 kW	8.00 kW
COP T _j = +7°C	5.95	4.86
C _{dh} T _j = +7 °C	0.90	0.90
P _{dh} T _j = 12°C	9.10 kW	9.00 kW

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

COP Tj = 12°C	8.11	6.95
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.80 kW	13.50 kW
COP Tj = Tbiv	3.21	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.40 kW	19.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.38
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	21.17 kW	22.26 kW
Annual energy consumption Qhe	13312 kWh	16814 kWh
Pdh Tj = -15°C (if TOL<-20°C)	17.40	19.30
COP Tj = -15°C (if TOL<-20°C)	2.80	2.38
Cdh Tj = -15 °C	0.90	0.90

Model: HPA-O 13 CS Premium

Configure model	
Model name	HPA-O 13 CS Premium
Application	Heating (medium 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	Medium temperature
Heat output	8.00 kW	7.52 kW
El input	1.66 kW	2.33 kW
COP	4.82	3.23

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	178 %	139 %
Prated	15.00 kW	15.00 kW
SCOP	4.53	3.55
Tbiv	-5 °C	-5 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	13.00 kW	13.80 kW
COP Tj = -7°C	3.02	2.43
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	8.00 kW	7.70 kW
COP Tj = +2°C	4.40	3.37
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	8.10 kW	7.90 kW
COP Tj = +7°C	5.64	4.45
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	9.10 kW	9.00 kW

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

COP Tj = 12°C	8.11	6.66
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	11.80 kW	12.40 kW
COP Tj = Tbiv	3.18	2.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.60 kW	13.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.87	2.28
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6839 kWh	8723 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	236 %	174 %
Prated	8.00 kW	7.00 kW
SCOP	5.97	4.44

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

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.90 kW	7.40 kW
COP Tj = +2°C	3.89	2.59
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	8.10 kW	7.70 kW
COP Tj = +7°C	5.10	3.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	9.10 kW	9.00 kW
COP Tj = 12°C	7.72	6.11
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	7.90 kW	7.40 kW
COP Tj = Tbiv	3.89	2.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.60 kW	19.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.29
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity

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

Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1789 kWh	2107 kWh

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	154 %	137 %
Prated	21.00 kW	22.00 kW
SCOP	3.93	3.25
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	12.80 kW	13.50 kW
COP T _j = -7°C	3.21	2.65
C _{dh} T _j = -7 °C	0.90	0.90
P _{dh} T _j = +2°C	8.10 kW	7.90 kW
COP T _j = +2°C	4.75	3.75
C _{dh} T _j = +2 °C	0.90	0.90
P _{dh} T _j = +7°C	8.20 kW	8.00 kW
COP T _j = +7°C	5.95	4.86
C _{dh} T _j = +7 °C	0.90	0.90
P _{dh} T _j = 12°C	9.10 kW	9.00 kW

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

COP Tj = 12°C	8.11	6.95
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	12.80 kW	13.50 kW
COP Tj = Tbiv	3.21	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	17.40 kW	19.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.38
WTOL	65 °C	65 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	43 W	43 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	21.17 kW	22.26 kW
Annual energy consumption Qhe	13182 kWh	16684 kWh
Pdh Tj = -15°C (if TOL<-20°C)	17.40	19.30
COP Tj = -15°C (if TOL<-20°C)	2.80	2.38
Cdh Tj = -15 °C	0.90	0.90