

## Subtype HPA-O 07.2 Plus HC 230

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
Address	Dr. Stiebel Straße 33
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City	Holzminden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	HPA-O 07.2 Plus HC 230
Registration number	011-1W0978
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.4 kg
Certification Date	04.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

## Model HPA-O 07.2 Plus HC 230

Model name	HPA-O 07.2 Plus HC 230
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

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

### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.05 kW	2.65 kW
El input	0.56 kW	0.83 kW
COP	5.50	3.19

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	43 dB(A)	43 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	200 %	158 %
Prated	8.15 kW	8.05 kW
SCOP	5.09	4.02
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.21 kW	7.12 kW
COP Tj = -7°C	3.29	2.68
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.40 kW	4.29 kW
COP Tj = +2°C	4.79	3.79
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.89 kW	2.78 kW

COP Tj = +7°C	7.16	5.42
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.29 kW	3.24 kW
COP Tj = 12°C	8.61	6.58
Cdh Tj = +12 °C	0.930	0.960
Pdh Tj = Tbiv	7.21 kW	7.12 kW
COP Tj = Tbiv	3.29	2.68
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.84 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	26 W	18 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.31 kW	1.05 kW
Annual energy consumption Qhe	3310 kWh	4133 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	43 dB(A)	43 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	182 %	144 %
Prated	7.78 kW	7.64 kW
SCOP	4.62	3.68
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.73 kW	4.61 kW
COP Tj = -7°C	3.99	3.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.90 kW	2.79 kW
COP Tj = +2°C	5.41	4.23
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	7.23	5.62
Cdh Tj = +7 °C	0.910	0.960
Pdh Tj = 12°C	3.28 kW	3.26 kW
COP Tj = 12°C	8.38	6.76
Cdh Tj = +12 °C	0.930	0.960
Pdh Tj = Tbiv	6.35 kW	6.23 kW

COP Tj = Tbiv	3.03	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.16 kW	4.85 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	2.00
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	9 W	9 W
PTO	26 W	18 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.62 kW	2.79 kW
Annual energy consumption Qhe	4154 kWh	5120 kWh
Pdh Tj = -15°C (if TOL	6.35	6.23
COP Tj = -15°C (if TOL	3.03	2.50
Cdh Tj = -15 °C	0.900	0.900

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	43 dB(A)	43 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	253 %	180 %
Prated	4.30 kW	4.43 kW
SCOP	6.39	4.58
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.30 kW	4.43 kW
COP Tj = +2°C	4.26	2.84
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.82 kW	2.87 kW
COP Tj = +7°C	6.20	4.07
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.27 kW	3.17 kW
COP Tj = 12°C	7.99	5.82
Cdh Tj = +12 °C	0.940	0.970
Pdh Tj = Tbiv	4.30 kW	4.43 kW
COP Tj = Tbiv	4.26	2.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.30 kW	4.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.26	2.84

$C_{dh} T_j = TOL$  or  $P_{dh} T_j = T_{designh}$  if  $TOL < T_{designh}$

WTOL	75 °C	75 °C
P <sub>off</sub>	9 W	9 W
PTO	26 W	18 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	899 kWh	1292 kWh