Subtype HPA-O 13.2 Trend HC 400

Certificate Holder	STIEBEL ELTRON GmbH & Co KG
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City	Holzminden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	HPA-O 13.2 Trend HC 400
Registration number	011-1W0982
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.6 kg
Certification Date	04.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model HPA-O 13.2 Trend HC 400	
Model name	HPA-O 13.2 Trend HC 400
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	3x400V 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	5.56 kW	5.04 kW
El input	1.04 kW	1.55 kW
COP	5.36	3.24

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	151 %
Prated	14.25 kW	14.09 kW
SCOP	4.65	3.85
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.61 kW	12.47 kW
COP Tj = -7°C	2.74	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.67 kW	7.53 kW
COP Tj = +2°C	4.37	3.62
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.86 kW	4.89 kW

COP Tj = +7°C	6.85	5.38
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.36 kW	4.37 kW
COP Tj = 12°C	8.38	6.87
Cdh Tj = +12 °C	0.950	0.970
Pdh Tj = Tbiv	12.61 kW	12.47 kW
COP Tj = Tbiv	2.74	2.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.14 kW	11.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	2.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	12 W	13 W
PTO	28 W	17 W
PSB	12 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.11 kW	2.32 kW
Annual energy consumption Qhe	6326 kWh	7555 kWh

EN 12102-1 | Colder Climate		
	Low temperature	Medium temperature
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825 | Colder Climate		
	Low temperature	Medium temperature
ηs	166 %	138 %
Prated	14.59 kW	14.35 kW
SCOP	4.21	3.52
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8.81 kW	8.74 kW
COP Tj = -7°C	3.40	2.88
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.44 kW	5.30 kW
COP Tj = +2°C	5.12	4.17
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.89 kW	3.77 kW
COP Tj = +7°C	7.12	5.78
Cdh Tj = +7 °C	0.950	0.970
Pdh Tj = 12°C	4.36 kW	4.38 kW
COP Tj = 12°C	8.21	7.07
Cdh Tj = +12 °C	0.950	0.970
Pdh Tj = Tbiv	11.90 kW	11.71 kW

COP Tj = Tbiv	2.65	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.68 kW	7.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	12 W	13 W
PTO	28 W	17 W
PSB	12 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.91 kW	6.61 kW
Annual energy consumption Qhe	8533 kWh	10038 kWh
Pdh Tj = -15°C (if TOL	11.90	11.71
COP Tj = -15°C (if TOL	2.65	2.28
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	49 dB(A)	49 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	252 %	185 %
Prated	7.45 kW	7.38 kW
SCOP	6.38	4.70
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.45 kW	7.38 kW
COP Tj = +2°C	3.91	2.82
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.75 kW	4.76 kW
COP Tj = +7°C	6.00	4.08
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	4.34 kW	4.26 kW
COP Tj = 12°C	7.82	5.95
Cdh Tj = +12 °C	0.950	0.980
Pdh Tj = Tbiv	7.45 kW	7.38 kW
COP Tj = Tbiv	3.91	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.45 kW	7.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.91	2.82

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	12 W	13 W
PTO	28 W	17 W
PSB	12 W	13 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 Qhe	1559 kWh	2097 kWh