

This information was generated by the HP KEYMARK database on 15 Mar 2021

Summary of	WPE-I 33 H 400 Premium	Reg. No.	011-1W0332
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	WPE-I 33 H 400 Premium		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.9 kg		
Certification Date	05.10.2020		
Testing basis	HP KEYMARK certification scheme rules V7		

Model: WPE-I 33H 400 Premium

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	20.18 kW	18.93 kW
El input	4.26 kW	6.42 kW
COP	4.73	2.95

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

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EN 14825

	Low temperature	Medium temperature
η_s	214 %	159 %
Prated	33.28 kW	31.13 kW
SCOP	5.55	4.18
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.44 kW	27.54 kW
COP Tj = -7°C	4.63	3.14
Cdh	0.90	0.90
Pdh Tj = +2°C	17.92 kW	16.76 kW
COP Tj = +2°C	5.57	4.21
Cdh	0.90	0.90
Pdh Tj = +7°C	11.52 kW	10.78 kW
COP Tj = +7°C	6.11	4.83
Cdh	0.90	0.90
Pdh Tj = 12°C	12.52 kW	12.16 kW
COP Tj = 12°C	6.05	5.00
Cdh	0.90	0.90
Pdh Tj = Tbiv	33.28 kW	31.13 kW
COP Tj = Tbiv	4.26	2.86

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.28 kW	31.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.26	2.86
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	No	No
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	12358 kWh	15305 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_s	214 %	160 %
Prated	33.28 kW	31.13 kW
SCOP	5.54	4.19
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	33.28 kW	31.13 kW
COP Tj = +2°C	4.26	2.86

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Cdh	0.90	0.90
Pdh Tj = +7°C	21.39 kW	20.01 kW
COP Tj = +7°C	5.30	3.78
Cdh	0.90	0.90
Pdh Tj = 12°C	12.51 kW	12.08 kW
COP Tj = 12°C	6.06	4.85
Cdh	0.90	0.90
Pdh Tj = Tbiv	33.28 kW	31.13 kW
COP Tj = Tbiv	4.26	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.28 kW	31.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.26	2.86
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	No	No
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	7963 kWh	9906 kWh

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)

Colder Climate

EN 14825		
	Low temperature	Medium temperature
η_s	221 %	165 %
Prated	33.28 kW	31.13 kW
SCOP	5.72	4.33
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	20.14 kW	18.84 kW
COP Tj = -7°C	5.49	3.99
Cdh	0.90	0.90
Pdh Tj = +2°C	12.26 kW	11.47 kW
COP Tj = +2°C	6.11	4.73
Cdh	0.90	0.90
Pdh Tj = +7°C	12.53 kW	12.14 kW
COP Tj = +7°C	6.10	4.98
Cdh	0.90	0.90

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Pdh Tj = 12°C	12.49 kW	12.22 kW
COP Tj = 12°C	5.91	5.12
Cdh	0.90	0.90
Pdh Tj = Tbiv	33.28 kW	31.13 kW
COP Tj = Tbiv	4.26	2.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	33.28 kW	31.13 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.26	2.86
WTOL	65 °C	65 °C
Poff	12 W	12 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	No	No
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	14325 kWh	17698 kWh
Pdh Tj = -15°C (if TOL<-20°C)	33.28	31.13
COP Tj = -15°C (if TOL<-20°C)	4.26	2.86
Cdh	0.90	0.90

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)