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Summary of	WPE-I 59 H 400 Premium	Reg. No.	011-1W0334
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 59 H 400 Premium		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	6.3 kg		
Certification Date	05.10.2020		
Testing basis	HP KEYMARK certification scheme rules rev. 7		

Model: WPE-I 59 H 400 Premium

Configure model	
Model name	WPE-I 59 H 400 Premium
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	34.97 kW	31.56 kW
El input	7.76 kW	11.04 kW
COP	4.51	2.86

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

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	203 %	157 %
Prated	59.64 kW	55.34 kW
SCOP	5.28	4.13
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	59.64 kW	55.34 kW
COP Tj = +2°C	3.93	2.77
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	38.34 kW	35.58 kW
COP Tj = +7°C	5.00	3.69
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	17.04 kW	15.81 kW
COP Tj = 12°C	5.79	4.85
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	59.64 kW	55.34 kW

COP Tj = Tbiv	3.93	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	59.64 kW	55.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.93	2.77
WTOL	65 °C	65 °C
Poff	9 W	9 W
PTO	11 W	11 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	15055 kWh	17857 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	204 %	160 %
Prated	59.64 kW	55.34 kW

SCOP	5.29	4.20
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	35.77 kW	33.80 kW
COP Tj = -7°C	5.14	3.85
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	21.97 kW	20.39 kW
COP Tj = +2°C	5.71	4.59
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	16.74 kW	16.35 kW
COP Tj = +7°C	5.86	4.85
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	16.58 kW	16.38 kW
COP Tj = 12°C	5.58	4.88
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	59.64 kW	55.34 kW
COP Tj = Tbiv	3.93	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	59.64 kW	55.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.93	2.77
WTOL	65 °C	65 °C
Poff	9 W	9 W

PTO	11 W	11 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	27759 kWh	32491 kWh
Pdh Tj = -15°C (if TOL<-20°C)	59.64	55.34
COP Tj = -15°C (if TOL<-20°C)	3.93	2.77
Cdh Tj = -15 °C	0.90	0.90

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	200 %	155 %
Prated	59.64 kW	55.34 kW
SCOP	5.19	4.07
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	52.76 kW	48.96 kW
COP Tj = -7°C	4.26	3.01
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	32.11 kW	29.80 kW
COP Tj = +2°C	5.23	4.11
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	20.64 kW	19.16 kW
COP Tj = +7°C	5.74	4.84
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	16.56 kW	16.33 kW
COP Tj = 12°C	5.58	4.66
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	59.64 kW	55.34 kW
COP Tj = Tbiv	3.93	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	59.64 kW	55.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.93	2.77
WTOL	65 °C	65 °C
Poff	9 W	9 W
PTO	11 W	11 W
PSB	18 W	18 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	23714 kWh	28063 kWh