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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			



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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
СОР	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	

Average Climate

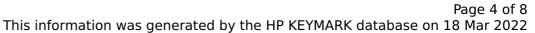


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EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	

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

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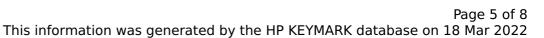




COP Tj = 12°C	5.58	4.66
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	59.64 kW	55.34 kW
COP Tj = Tbiv	3.93	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	59.64 kW	55.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.93	2.77
WTOL	65 °C	65 °C
Poff	9 W	9 W
РТО	11 W	11 W
PSB	18 W	18 W
PCK	o w	o 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

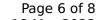
Warmer Climate

Low temperature	Medium temperature
203 %	157 %
59.64 kW	55.34 kW
5.28	4.13
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Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	59.64 kW	55.34 kW
$COP Tj = +2^{\circ}C$	3.93	2.77
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	38.34 kW	35.58 kW
$COPTj = +7^{\circ}C$	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
РТО	11 W	11 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a





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Supplementary Heater: PSUP	0.00 kW	0.00 kW

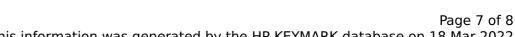
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	15055 kWh	17857 kWh

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

Colder Climate

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	

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Pdh Tj = $+7^{\circ}$ 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
РТО	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

CEN heat pump KEYMARK

Cdh Tj = -15 $^{\circ}$ C

0.90

0.90





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