Summary of	WPL 17 I(K)CS classic	Reg. No.	011-1W0224
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		
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	WPL 17 I(K)CS classic		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.6 kg		
Certification Date	04.09.2019		
Testing basis	HP KEYMARK certification scheme rules rev. no. 5		

Model: WPL 17 IKCS classic

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.22 kW	3.75 kW
El input	0.92 kW	1.49 kW
COP	4.60	2.51
Indoor water flow rate	0.60 m³/h	0.60 m³/h

Average Climate

EN 14825

	Low temperature	**Medium temperature**
η_s	161 %	126 %
Prated	9.20 kW	7.10 kW
SCOP	4.11	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.93 kW	6.28 kW
COP Tj = -7°C	2.61	2.13
Cdh	0.90	0.90
Pdh Tj = +2°C	5.16 kW	4.73 kW
COP Tj = +2°C	4.03	3.04
Cdh	0.90	0.90
Pdh Tj = +7°C	4.20 kW	4.20 kW
COP Tj = +7°C	5.25	4.44
Cdh	0.90	0.90
Pdh Tj = 12°C	3.39 kW	3.14 kW
COP Tj = 12°C	8.03	6.21
Cdh	0.90	0.90
Pdh Tj = Tbiv	7.93 kW	6.28 kW
COP Tj = Tbiv	2.61	2.13
Pdh Tj = TOL	7.29 kW	2.77 kW

COP Tj = TOL	2.55	1.83
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	56 W	56 W
PTO	21 W	21 W
PSB	56 W	56 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.91 kW	4.43 kW
Annual energy consumption Qhe	4621 kWh	4564 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	44 dB(A)

Warmer Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	207 %	142 %
Prated	4.95 kW	4.30 kW
SCOP	5.24	3.63

Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.95 kW	4.34 kW
COP Tj = +2°C	3.70	2.21
Cdh	0.90	0.90
Pdh Tj = +7°C	4.21 kW	3.96 kW
COP Tj = +7°C	4.90	3.21
Cdh	0.90	0.90
Pdh Tj = 12°C	3.31 kW	2.98 kW
COP Tj = 12°C	7.35	5.30
Cdh	0.90	0.90
Pdh Tj = Tbiv	4.95 kW	4.34 kW
COP Tj = Tbiv	3.70	2.21
Pdh Tj = TOL	4.95 kW	4.34 kW
COP Tj = TOL	3.70	2.21
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	56 W	56 W
PTO	21 W	21 W
PSB	56 W	56 W
PCK	26 W	26 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1262 kWh	1584 kWh

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	40 dB(A)	44 dB(A)

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	48 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	126 %	105 %
Prated	13.20 kW	12.70 kW
SCOP	3.23	2.69
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.96 kW	7.69 kW

COP Tj = -7°C	2.73	2.26
Cdh	0.90	0.90
Pdh Tj = +2°C	5.29 kW	4.89 kW
COP Tj = +2°C	4.24	3.49
Cdh	0.90	0.90
Pdh Tj = +7°C	4.19 kW	4.21 kW
COP Tj = +7°C	5.45	4.82
Cdh	0.90	0.90
Pdh Tj = 12°C	3.39 kW	3.23 kW
COP Tj = 12°C	8.03	6.75
Cdh	0.90	0.90
Pdh Tj = Tbiv	7.96 kW	7.69 kW
COP Tj = Tbiv	2.73	2.26
Pdh Tj = TOL	5.13 kW	5.24 kW
COP Tj = TOL	2.27	1.00
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	56 W	56 W
PTO	21 W	21 W
PSB	56 W	56 W
PCK	26 W	26 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	7.38 kW	6.79 kW
Annual energy consumption Qhe	10074 kWh	11651 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.21	6.18
COP Tj = -15°C (if TOL<-20°C)	2.43	1.48
Cdh	0.90	0.90

Model: WPL 17 ICS classic

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.27 kW	3.81 kW
El input	0.90 kW	1.48 kW
COP	4.74	2.58
Indoor water flow rate	0.60 m³/h	0.60 m³/h

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	48 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	167 %	129 %
Prated	9.00 kW	7.20 kW
SCOP	4.24	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.98 kW	6.39 kW
COP Tj = -7°C	2.65	2.17
Cdh	0.90	0.90
Pdh Tj = +2°C	5.25 kW	4.81 kW
COP Tj = +2°C	4.19	3.14
Cdh	0.90	0.90
Pdh Tj = +7°C	4.26 kW	4.25 kW
COP Tj = +7°C	5.44	4.56
Cdh	0.90	0.90
Pdh Tj = 12°C	3.43 kW	3.18 kW

COP Tj = 12°C	8.21	6.33
Cdh	0.90	0.90
Pdh Tj = Tbiv	7.98 kW	6.39 kW
COP Tj = Tbiv	2.65	2.17
Pdh Tj = TOL	7.35 kW	2.77 kW
COP Tj = TOL	2.59	1.83
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	56 W	56 W
PTO	21 W	21 W
PSB	56 W	56 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.65 kW	4.43 kW
Annual energy consumption Qhe	4387 kWh	4506 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	48 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	212 %	145 %
Prated	5.02 kW	4.40 kW
SCOP	5.38	3.69
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.02 kW	4.42 kW
COP Tj = +2°C	3.83	2.27
Cdh	0.90	0.90
Pdh Tj = +7°C	4.27 kW	4.02 kW
COP Tj = +7°C	5.06	3.30
Cdh	0.90	0.90
Pdh Tj = 12°C	3.35 kW	3.01 kW
COP Tj = 12°C	7.50	5.35
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.02 kW	4.42 kW
COP Tj = Tbiv	3.83	2.27
Pdh Tj = TOL	5.02 kW	4.42 kW
COP Tj = TOL	3.83	2.27
Cdh	0.90	0.90

WTOL	60 °C	60 °C
Poff	56 W	56 W
PTO	21 W	21 W
PSB	56 W	56 W
PCK	26 W	26 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1247 kWh	1592 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	43 dB(A)	48 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	130 %	112 %
Prated	13.40 kW	13.00 kW
SCOP	3.33	2.86
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C

Pdh Tj = -7°C	8.13 kW	7.84 kW
COP Tj = -7°C	2.81	2.31
Cdh	0.90	0.90
Pdh Tj = +2°C	5.39 kW	4.96 kW
COP Tj = +2°C	4.42	3.61
Cdh	0.90	0.90
Pdh Tj = +7°C	4.26 kW	4.27 kW
COP Tj = +7°C	5.65	4.98
Cdh	0.90	0.90
Pdh Tj = 12°C	3.43 kW	3.26 kW
COP Tj = 12°C	8.21	6.88
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.13 kW	7.84 kW
COP Tj = Tbiv	2.81	2.31
Pdh Tj = TOL	5.24 kW	5.24 kW
COP Tj = TOL	2.33	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	56 W	56 W
PTO	21 W	21 W
PSB	56 W	56 W

PCK	26 W	26 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	7.45 kW	7.08 kW
Annual energy consumption Qhe	9919 kWh	11197 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.29	6.24
COP Tj = -15°C (if TOL<-20°C)	2.47	2.32
Cdh	0.90	0.90