

Summary of	WPL 13/17 ACS classic	Reg. No.	011-1W0062
Certificate Holder			
Name	STIEBEL ELTRON GmbH & Co KG	STIEBEL ELTRON GmbH & Co KG	
Address	Dr. Stiebel Straße 33	Zip	37603
City	Holzminden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konfo	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH	
Name of testing laboratory	RISE Research Institute of Sweden	RISE Research Institute of Sweden	
Subtype title	WPL 13/17 ACS classic		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2 kg		
Certification Date	19.01.2017	19.01.2017	
Testing basis	HP KEYMARK certification scheme rules rev. no. 6		



# Model: WPL 13 ACS classic + HSBC 200, HSBC 200S

General Data	
Power supply	1x230V 50Hz

## Heating

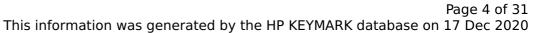
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

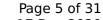
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	125 %
Prated	6.80 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	6.02 kW	5.10 kW
COP Tj = -7°C	2.90	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	3.89 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = +7°C	3.50 kW	2.60 kW
COP Tj = +7°C	6.60	4.56
Cdh	0.90	0.90





Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	6.02 kW	6.10 kW
COP Tj = Tbiv	2.90	2.28
Pdh Tj = TOL	6.30 kW	5.10 kW
COP Tj = TOL	2.80	1.97
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	30 W	30 W
PSB	17 W	17 W
РСК	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.50 kW	7.55 kW
Annual energy consumption Qhe	3120 kWh	4865 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
СОР	2.70
Heating up time	01:50 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 I



# Model: WPL 17 ACS classic + HSBC 200, HSBC 200S

General Data	
Power supply 1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

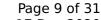
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	125 %
Prated	9.19 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	8.13 kW	5.10 kW
COP Tj = -7°C	2.72	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	5.22 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = +7°C	3.50 kW	2.60 kW
COP Tj = +7°C	6.60	4.56
Cdh	0.90	0.90





Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.13 kW	6.10 kW
COP Tj = Tbiv	2.72	2.28
Pdh Tj = TOL	7.92 kW	5.10 kW
COP Tj = TOL	2.64	1.97
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.27 kW	7.55 kW
Annual energy consumption Qhe	4218 kWh	4865 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
СОР	2.70
Heating up time	01:50 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 I



# Model: WPL 13 ACS classic + HSBB 200, HSBB 200 S

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

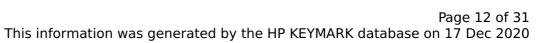
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

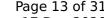
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	125 %
Prated	6.80 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	6.02 kW	5.10 kW
COP Tj = -7°C	2.90	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	3.89 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = +7°C	3.50 kW	2.60 kW
COP Tj = +7°C	6.60	4.56
Cdh	0.90	0.90



$\bigcirc$	
	CEN heat pump
5	KEYMARK

Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	6.02 kW	6.10 kW
COP Tj = Tbiv	2.90	2.28
Pdh Tj = TOL	6.30 kW	5.10 kW
COP Tj = TOL	2.80	1.97
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.50 kW	7.55 kW
Annual energy consumption Qhe	3120 kWh	4865 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
СОР	2.70
Heating up time	01:50 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 I

## Model: WPL 13 ACS classic, low temperature, all climates

General Data		
Power supply	1x230V 50Hz	

#### Heating

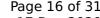
EN 14511-2	
	Low temperature
Heat output	4.86 kW
El input	1.02 kW
СОР	4.76
Indoor water flow rate	1.34 m³/h

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



EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

EN 14825	
	Low temperature
$\eta_{s}$	177 %
Prated	6.80 kW
SCOP	4.50
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	6.02 kW
COP Tj = -7°C	2.90
Cdh	0.90
Pdh Tj = +2°C	3.89 kW
COP Tj = +2°C	4.35
Cdh	0.90
Pdh Tj = +7°C	3.50 kW
COP Tj = +7°C	6.60
Cdh	0.90
Pdh Tj = 12°C	3.39 kW



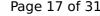


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COP Tj = 12°C	6.78
Cdh	0.90
Pdh Tj = Tbiv	6.02 kW
COP Tj = Tbiv	2.90
Pdh Tj = TOL	6.30 kW
COP Tj = TOL	2.80
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.50 kW
Annual energy consumption Qhe	3120 kWh

#### Warmer Climate

EN 14825	
	Low temperature
$\eta_{s}$	213 %
Prated	6.30 kW
SCOP	5.41





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Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	6.30 kW
COP Tj = +2°C	3.60
Cdh	0.90
Pdh Tj = $+7^{\circ}$ C	4.10 kW
$COP Tj = +7^{\circ}C$	5.25
Cdh	0.90
Pdh Tj = 12°C	3.37 kW
COP Tj = 12°C	6.61
Cdh	0.90
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	3.60
Pdh Tj = TOL	6.30 kW
COP Tj = TOL	3.60
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity



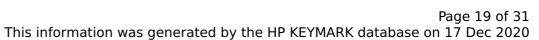


Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Ohe	1556 kWh

EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

#### Colder Climate

EN 14825	
	Low temperature
$\eta_{s}$	151 %
Prated	5.80 kW
SCOP	3.85
Tbiv	-15 °C
TOL	-20 °C
Pdh Tj = $-7$ °C	3.51 kW
$COP Tj = -7^{\circ}C$	3.30
Cdh	0.90
Pdh Tj = +2°C	2.28 kW
COP Tj = +2°C	4.55
Cdh	0.90





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Pdh Tj = +7°C	2.79 kW
$COP Tj = +7^{\circ}C$	5.81
Cdh	0.90
Pdh Tj = 12°C	3.39 kW
COP Tj = 12°C	6.71
Cdh	0.90
Pdh Tj = Tbiv	5.80 kW
COP Tj = Tbiv	2.70
Pdh Tj = TOL	4.50 kW
COP Tj = TOL	2.40
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	5.80 kW
Annual energy consumption Qhe	3713 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.80
COP Tj = $-15$ °C (if TOL< $-20$ °C)	2.70
Cdh	0.90





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EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)



# Model: WPL 17 ACS classic + HSBB 200, HSBB 200S

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.86 kW	4.31 kW
El input	1.02 kW	1.58 kW
СОР	4.76	2.73
Indoor water flow rate	0.80 m³/h	1.34 m³/h

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



 $$\operatorname{\textit{Page}}\xspace$  22 of 31 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	27 dB(A)	27 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

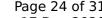
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	125 %
Prated	9.19 kW	7.55 kW
SCOP	4.50	3.21
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	8.13 kW	5.10 kW
COP Tj = -7°C	2.72	1.97
Cdh	0.90	0.90
Pdh Tj = +2°C	5.22 kW	4.10 kW
COP Tj = +2°C	4.35	3.25
Cdh	0.90	0.90
Pdh Tj = +7°C	3.50 kW	2.60 kW
COP Tj = +7°C	6.60	4.56
Cdh	0.90	0.90



$\bigcirc$	
	CEN heat pump
13	KEYMARK

Pdh Tj = 12°C	3.39 kW	3.30 kW
COP Tj = 12°C	6.78	5.98
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.13 kW	6.10 kW
COP Tj = Tbiv	2.72	2.28
Pdh Tj = TOL	7.92 kW	5.10 kW
COP Tj = TOL	2.64	1.97
WTOL	60 °C	60 °C
Poff	17 W	17 W
РТО	30 W	30 W
PSB	17 W	17 W
PCK	5 W	5 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.27 kW	7.55 kW
Annual energy consumption Qhe	4218 kWh	4865 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	2.70	
Heating up time	01:50 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	245 I	



## Model: WPL 17 ACS classic, low temperature, all climates

General Data		
Power supply	1x230V 50Hz	

#### Heating

EN 14511-2		
	Low temperature	
Heat output	4.86 kW	
El input	1.02 kW	
СОР	4.76	
Indoor water flow rate	0.80 m³/h	

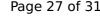
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

	EN 14825
	Low temperature
$\eta_{s}$	177 %
Prated	9.19 kW
SCOP	4.50
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	8.13 kW
COP Tj = -7°C	2.72
Cdh	0.90
dh Tj = +2°C	5.22 kW
COP Tj = +2°C	4.35
Cdh	0.90
Pdh Tj = +7°C	3.50 kW
COP Tj = +7°C	6.60
Cdh	0.90
Pdh Tj = 12°C	3.39 kW





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COP Tj = 12°C	6.78
Cdh	0.90
Pdh Tj = Tbiv	8.13 kW
COP Tj = Tbiv	2.72
Pdh Tj = TOL	7.92 kW
COP Tj = TOL	2.64
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.27 kW
Annual energy consumption Qhe	4218 kWh

#### Warmer Climate

EN 14825	
	Low temperature
$\eta_s$	215 %
Prated	7.60 kW
SCOP	5.44





TOL       2 °C         Pdh Tj = +2°C       7.60 kW         COP Tj = +2°C       3.44         Cdh       0.90         Pdh Tj = +7°C       4.89 kW         COP Tj = +7°C       5.15         Cdh       0.90         Pdh Tj = 12°C       3.37 kW         COP Tj = 12°C       6.61         Cdh       0.90         Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W         PCK       5 W	Tbiv	2 °C
COP Tj = +2°C 3.44  Cdh 0.90  Pdh Tj = +7°C 4.89 kW  COP Tj = +7°C 5.15  Cdh 0.90  Pdh Tj = 12°C 3.37 kW  COP Tj = 12°C 6.61  Cdh 0.90  Pdh Tj = Tbiv 7.60 kW  COP Tj = Tbiv 3.44  Pdh Tj = TOL 7.60 kW  COP Tj = TOL 3.44  WTOL 60°C  Poff 17 W  PTO 30 W  PSB 17 W	TOL	2 °C
Cdh       0.90         Pdh Tj = +7°C       4.89 kW         COP Tj = +7°C       5.15         Cdh       0.90         Pdh Tj = 12°C       3.37 kW         COP Tj = 12°C       6.61         Cdh       0.90         Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	Pdh Tj = +2°C	7.60 kW
Pdh Tj = +7°C       4.89 kW         COP Tj = +7°C       5.15         Cdh       0.90         Pdh Tj = 12°C       3.37 kW         COP Tj = 12°C       6.61         Cdh       0.90         Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	COP Tj = +2°C	3.44
COP Tj = +7°C	Cdh	0.90
Cdh       0.90         Pdh Tj = 12°C       3.37 kW         COP Tj = 12°C       6.61         Cdh       0.90         Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	Pdh Tj = $+7^{\circ}$ C	4.89 kW
Pdh Tj = 12°C       3.37 kW         COP Tj = 12°C       6.61         Cdh       0.90         Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	$COP Tj = +7^{\circ}C$	5.15
COP Tj = 12°C 6.61  Cdh 0.90  Pdh Tj = Tbiv 7.60 kW  COP Tj = Tbiv 3.44  Pdh Tj = TOL 7.60 kW  COP Tj = TOL 3.44  WTOL 60 °C  Poff 17 W  PTO 30 W  PSB 17 W	Cdh	0.90
Cdh       0.90         Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	Pdh Tj = 12°C	3.37 kW
Pdh Tj = Tbiv       7.60 kW         COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	COP Tj = 12°C	6.61
COP Tj = Tbiv       3.44         Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	Cdh	0.90
Pdh Tj = TOL       7.60 kW         COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	Pdh Tj = Tbiv	7.60 kW
COP Tj = TOL       3.44         WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	COP Tj = Tbiv	3.44
WTOL       60 °C         Poff       17 W         PTO       30 W         PSB       17 W	Pdh Tj = TOL	7.60 kW
Poff       17 W         PTO       30 W         PSB       17 W	COP Tj = TOL	3.44
PTO 30 W PSB 17 W	WTOL	60 °C
PSB 17 W	Poff	17 W
	РТО	30 W
PCK 5 W	PSB	17 W
	PCK	5 W
Supplementary Heater: Type of energy input electricity	Supplementary Heater: Type of energy input	electricity





Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	1867 kWh

EN 12102-1	
	Low temperature
Sound power level outdoor	57 dB(A)

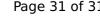
#### Colder Climate

EN 14825	
	Low temperature
$\eta_s$	147 %
Prated	8.70 kW
SCOP	3.75
Tbiv	-15 °C
TOL	-20 °C
Pdh Tj = -7°C	5.27 kW
$COP Tj = -7^{\circ}C$	3.17
Cdh	0.90
Pdh Tj = +2°C	3.21 kW
COP Tj = +2°C	4.46
Cdh	0.90





The management of the same of	TIMANK database on 17 Dec 2020
Pdh Tj = +7°C	2.79 kW
$COP Tj = +7^{\circ}C$	5.81
Cdh	0.90
Pdh Tj = 12°C	3.39 kW
COP Tj = 12°C	6.71
Cdh	0.90
Pdh Tj = Tbiv	7.10 kW
COP Tj = Tbiv	2.54
Pdh Tj = TOL	5.80 kW
COP Tj = TOL	2.19
WTOL	60 °C
Poff	17 W
РТО	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	8.70 kW
Annual energy consumption Qhe	5722 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.10
COP Tj = $-15$ °C (if TOL< $-20$ °C)	2.54
Cdh	0.90





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	Low temperature
Sound power level outdoor	57 dB(A)