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Summary of	WPL 09 ACS classic	Reg. No.	011-1W0061
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	WPL 09 ACS classic		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.1 kg		
Certification Date	19.01.2017		

Model: WPL 09 ACS classic + HSBC 200, HSBC 200 S

Configure model	
Model name	WPL 09 ACS classic + HSBC 200, HSBC 200 S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	2.27 kW	1.92 kW
El input	0.50 kW	0.74 kW
COP	4.54	2.59

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	165 %	116 %
Prated	4.59 kW	3.83 kW
SCOP	4.20	2.96
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	4.03 kW	2.79 kW
COP Tj = -7°C	2.67	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.53 kW	2.01 kW
COP Tj = +2°C	4.00	2.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.63 kW	1.25 kW
COP Tj = +7°C	6.06	4.13
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	1.67 kW	1.54 kW
COP Tj = 12°C	6.43	5.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.03 kW	3.09 kW
COP Tj = Tbiv	2.67	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	2.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	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	0.79 kW	3.83 kW
Annual energy consumption Qhe	2258 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.70
Heating up time	1:50 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 l

Model: WPL 09 ACS classic + HSBB 200 classic, HSBB 200 S classic

Configure model	
Model name	WPL 09 ACS classic + HSBB 200 classic, HSBB 200 S classic
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	2.27 kW	1.92 kW
El input	0.50 kW	0.74 kW
COP	4.54	2.59

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	165 %	116 %
Prated	4.59 kW	3.83 kW
SCOP	4.20	2.96
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-7 °C
Pdh Tj = -7°C	4.03 kW	2.79 kW
COP Tj = -7°C	2.67	2.01
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.53 kW	2.01 kW
COP Tj = +2°C	4.00	2.94
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.63 kW	1.25 kW
COP Tj = +7°C	6.06	4.13
Cdh Tj = +7 °C	0.900	0.900

Pdh Tj = 12°C	1.67 kW	1.54 kW
COP Tj = 12°C	6.43	5.13
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.03 kW	30.90 kW
COP Tj = Tbiv	2.67	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.80 kW	2.79 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	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	0.79 kW	3.83 kW
Annual energy consumption Qhe	2258 kWh	2672 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.70
Heating up time	1:50 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	245 l

Model: WPL 09 ACS classic, low temperature, all climates

Configure model	
Model name	WPL 09 ACS classic, low temperature, all climates
Application	Heating (low temp)
Units	Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	2.27 kW	1.92 kW
El input	0.50 kW	
COP	4.54	

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

Average Climate

EN 12102-1	
	Low temperature
Sound power level indoor	52 dB(A)
Sound power level outdoor	52 dB(A)

EN 14825	
	Low temperature
η_s	165 %
Prated	4.59 kW
SCOP	4.20
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	4.03 kW
COP Tj = -7°C	2.67
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	2.53 kW
COP Tj = +2°C	4.00
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	1.63 kW
COP Tj = +7°C	6.06
Cdh Tj = +7 °C	0.900

Pdh Tj = 12°C	1.67 kW
COP Tj = 12°C	6.43
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	4.03 kW
COP Tj = Tbiv	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	60 °C
Poff	17 W
PTO	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.79 kW
Annual energy consumption Qhe	2258 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825

	Low temperature
η_s	203 %
Prated	3.48 kW
SCOP	5.14
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	3.48 kW
COP Tj = +2°C	3.23
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	2.51 kW
COP Tj = +7°C	5.18
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.64 kW
COP Tj = 12°C	6.23
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	3.48 kW
COP Tj = Tbiv	3.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900

WTOL	60 °C
Poff	17 W
PTO	30 W
PSB	17 W
PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	904 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	52 dB(A)

EN 14825	
	Low temperature
η_s	147 %
Prated	4.29 kW
SCOP	3.76
Tbiv	-15 °C
TOL	-20 °C

Pdh Tj = -7°C	2.94 kW
COP Tj = -7°C	3.12
Cdh Tj = -7 °C	0.900
Pdh Tj = +2°C	1.75 kW
COP Tj = +2°C	4.61
Cdh Tj = +2 °C	0.900
Pdh Tj = +7°C	1.42 kW
COP Tj = +7°C	6.34
Cdh Tj = +7 °C	0.900
Pdh Tj = 12°C	1.65 kW
COP Tj = 12°C	6.27
Cdh Tj = +12 °C	0.900
Pdh Tj = Tbiv	3.48 kW
COP Tj = Tbiv	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900
WTOL	60 °C
Poff	17 W
PTO	30 W
PSB	17 W

PCK	5 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	4.29 kW
Annual energy consumption Qhe	2812 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.48
COP Tj = -15°C (if TOL<-20°C)	2.52
Cdh Tj = -15 °C	0.900