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Summary of	Aquarea Split 9 kW STD (J Series)	Reg. No.	011-1W0209	
Certificate Holder		<u> </u>		
Name	Panasonic Marketing Europe GmbH	Panasonic Marketing Europe GmbH		
Address	Hagenauer Strasse 43, Wiesbaden	Zip	65203	
City	Wiesbaden	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Konformität	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Aquarea Split 9 kW STD (J Series)	Aquarea Split 9 kW STD (J Series)		
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R32			
Mass of Refrigerant	1.27 kg	1.27 kg		
Certification Date	08.01.2020			
Testing basis	HP KEYMARK certification scheme rules V7			

Model: WH-ADC0309J3E5 / WH-UD09JE5

Configure model			
Model name	WH-ADC0309J3E5 / WH-UD09JE5		
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	Yes		
Cooling mode application (optional)	+7°C/12°C		

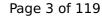
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	9.00 kW	8.95 kW		
El input	2.01 kW	3.22 kW		
СОР	4.48	2.78		

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

Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	2.62 kW	1.74 kW	
Cooling capacity	7.60	7.60	
EER	2.90	4.37	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920



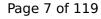


Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





This information was generated by the HP KEYMARK database on 22 Jun 202			
η_{s}	164 %	116 %	
Prated	7.00 kW	6.00 kW	
SCOP	4.18	2.98	
Tbiv	-15 °C	-15 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7° C	4.20 kW	3.60 kW	
$COP Tj = -7^{\circ}C$	3.41	2.41	
Cdh Tj = -7 °C	0.960	0.970	
Pdh Tj = $+2$ °C	2.50 kW	2.20 kW	
$COPTj = +2^{\circ}C$	5.39	3.75	
Cdh Tj = +2 °C	0.900	0.920	
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.80 kW	
$COPTj = +7^{\circ}C$	6.69	5.01	
Cdh Tj = +7 °C	0.900	0.920	
Pdh Tj = 12°C	3.40 kW	3.30 kW	
COP Tj = 12°C	8.24	6.67	
Cdh Tj = +12 °C	0.890	0.910	
Pdh Tj = Tbiv	5.70 kW	4.90 kW	
COP Tj = Tbiv	2.44	1.72	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08	
	+		





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





TIP KLTMAKK database on 22 juli 202
7.00 kW
3.32
-7 °C
-10 °C
6.20 kW
1.86
0.990
3.80 kW
3.33
0.960
2.70 kW
4.52
0.920
3.30 kW
6.26
0.910
6.20 kW
1.86
6.20 kW
1.70
55 °C
-



Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
СОР	3.50
Heating up time	1:22 h:min
Standby power input	30.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	234

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.47	
Heating up time	1:22 h:min	
Standby power input	37.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
СОР	3.00	
Heating up time	1:22 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	



Model: WH-ADC0309J3E5B / WH-UD09JE5

Configure model		
Model name	WH-ADC0309J3E5B / WH-UD09JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

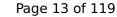
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	9.00 kW	8.95 kW
El input	2.01 kW	3.22 kW
СОР	4.48	2.78

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

Cooling





EN 14511-2		
+7°C/+12°C +18°C/+23°C		
El input	2.62 kW	1.74 kW
Cooling capacity	7.60	7.60
EER	2.90	4.37

EN 14825



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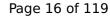
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
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Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
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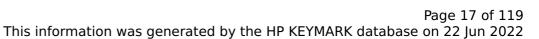


Pdh Tj = Tbiv	7.10 kW	6.10 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

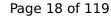
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EN 14825		
	Low temperature	Medium temperature





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COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
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Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
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Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	193 %	130 %





7.00 kW 4.90 -10 °C	7.00 kW 3.32
-10 °C	
	-7 °C
-10 °C	-10 °C
6.30 kW	6.20 kW
2.80	1.86
0.980	0.990
3.80 kW	3.80 kW
5.03	3.33
0.940	0.960
3.00 kW	2.70 kW
6.56	4.52
0.900	0.920
3.40 kW	3.30 kW
8.47	6.26
0.890	0.910
7.00 kW	6.20 kW
2.60	1.86
7.00 kW	6.20 kW
2.60	1.70
55 °C	55 °C
	5.30 kW 2.80 3.980 3.80 kW 5.03 3.940 3.00 kW 5.56 3.900 3.40 kW 3.47 3.890 7.00 kW 2.60



Poff	2 W	2 W
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PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

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Heating up time	1:22 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Colder Climate



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Average Climate

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Model: WH-ADC0309J3E5AN / WH-UD09JE5

Configure model		
Model name WH-ADC0309J3E5AN / WH-UD09JE5		
Application Heating + DHW + low temp		
nits Indoor + Outdoor		
Climate Zone	one Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	8.95 kW	
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EN 14511-4	
Shutting off the heat transfer medium flow	passed
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Cooling





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EN 14825





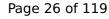
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РТО	44 W	44 W
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

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Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
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Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
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WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
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COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

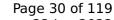
EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





Prated	7.00 kW	7.00 kW
SCOP	4.90	3.32
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
$COP Tj = -7^{\circ}C$	2.80	1.86
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	3.80 kW	3.80 kW
COP Tj = +2°C	5.03	3.33
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.70 kW
$COP Tj = +7^{\circ}C$	6.56	4.52
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.47	6.26
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	7.00 kW	6.20 kW
COP Tj = Tbiv	2.60	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.70
WTOL	55 °C	55 °C





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
СОР	3.50
Heating up time	1:22 h:min
Standby power input	30.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	234

Colder Climate



EN 16147 Declared load profile Efficiency ηDHW 99 % COP 2.47 1:22 h:min Heating up time Standby power input 37.0 W 52.3 °C Reference hot water temperature Mixed water at 40°C 234 I

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	120 %
СОР	3.00
Heating up time	1:22 h:min
Standby power input	31.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	234



Model: WH-ADC0309J3E5UK / WH-UD09JE5

Configure model		
Model name	WH-ADC0309J3E5UK / WH-UD09JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.00 kW	8.95 kW	
El input	2.01 kW	3.22 kW	
СОР	4.48	2.78	

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

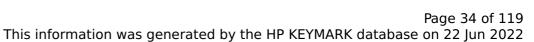
Cooling





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	2.62 kW	1.74 kW	
Cooling capacity	7.60	7.60	
EER	2.90	4.37	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	227 %	160 %	
Prated	7.00 kW	6.00 kW	
SCOP	5.75	4.07	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	7.10 kW	6.10 kW	
COP Tj = +2°C	2.80	2.14	
Cdh Tj = +2 °C	0.980	0.980	
Pdh Tj = +7°C	4.50 kW	3.80 kW	
$COP Tj = +7^{\circ}C$	5.37	3.51	
Cdh Tj = +7 °C	0.950	0.960	
Pdh Tj = 12°C	3.40 kW	3.30 kW	
COP Tj = 12°C	7.77	5.80	
Cdh Tj = +12 °C	0.900	0.920	





Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

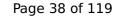
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





inis information was gener	The The RETHA	T
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
		I



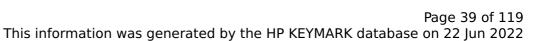


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





Prated	7.00 kW	7.00 kW
SCOP	4.90	3.32
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
COP Tj = -7°C	2.80	1.86
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	3.80 kW	3.80 kW
$COPTj = +2^{\circ}C$	5.03	3.33
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.70 kW
$COPTj = +7^{\circ}C$	6.56	4.52
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.47	6.26
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	7.00 kW	6.20 kW
COP Tj = Tbiv	2.60	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.70
WTOL	55 °C	55 °C



Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	140 %	
СОР	3.50	
Heating up time	1:22 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.47	
Heating up time	1:22 h:min	
Standby power input	37.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
СОР	3.00	
Heating up time	1:22 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234 I	



Model: WH-SDC0709J3E5 / WH-UD09JE5

Configure model		
Model name	WH-SDC0709J3E5 / WH-UD09JE5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

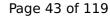
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	8.95 kW
El input	2.01 kW	3.22 kW
СОР	4.48	2.78

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

Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	2.62 kW	1.74 kW	
Cooling capacity	7.60	7.60	
EER	2.90	4.37	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920





Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

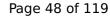
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





	<u>, </u>	NK database on 22 Juli 202.
η_{s}	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.80 kW
$COPTj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	193 %	130 %





Prated	7.00 kW	7.00 kW
SCOP	4.90	3.32
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
$COP Tj = -7^{\circ}C$	2.80	1.86
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	3.80 kW	3.80 kW
COP Tj = +2°C	5.03	3.33
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.70 kW
$COP Tj = +7^{\circ}C$	6.56	4.52
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.47	6.26
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	7.00 kW	6.20 kW
COP Tj = Tbiv	2.60	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.70
WTOL	55 °C	55 °C



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This information was generated by the HP KEYMARK database on 22 Jun 2022

Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Model: WH-ADC0309J3E5 / WH-UD09JE5-1

Configure model		
Model name	WH-ADC0309J3E5 / WH-UD09JE5-1	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

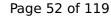
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	8.95 kW	
El input	2.01 kW	3.22 kW	
СОР	4.48	2.78	

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

Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	3.02 kW	1.74 kW	
Cooling capacity	8.20	7.60	
EER	2.72	4.37	

EN 14825



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This information was generated by the HP KEYMARK database on 22 Jun 2022

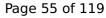
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
РСК	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920



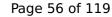


Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

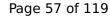
EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor	59 dB(A)	59 dB(A)		

EN 14825		
	Low temperature	Medium temperature





This information was gener		
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08



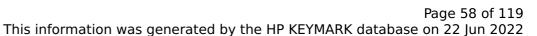


WTOL 55 °C 55 °C Poff 2 W 2 W PTO 44 W 44 W PSB 10 W 10 W PCK 10 W 10 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.30 kW 2.30 kW Annual energy consumption Qhe 4132 kWh 4967 kWh Pdh Tj = -15°C (if TOL<-20°C) 5.70 4.90			
PTO 44 W 44 W PSB 10 W 10 W PCK 10 W 10 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.30 kW 2.30 kW Annual energy consumption Qhe 4132 kWh 4967 kWh	WTOL	55 °C	55 °C
PSB 10 W 10 W PCK 10 W 10 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.30 kW 2.30 kW Annual energy consumption Qhe 4132 kWh 4967 kWh	Poff	2 W	2 W
PCK 10 W 10 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.30 kW 2.30 kW Annual energy consumption Qhe 4132 kWh 4967 kWh	РТО	44 W	44 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 2.30 kW Annual energy consumption Qhe 4132 kWh 4967 kWh	PSB	10 W	10 W
Supplementary Heater: PSUP 2.30 kW 2.30 kW Annual energy consumption Qhe 4132 kWh 4967 kWh	PCK	10 W	10 W
Annual energy consumption Qhe 4132 kWh 4967 kWh	Supplementary Heater: Type of energy input	Electricity	Electricity
	Supplementary Heater: PSUP	2.30 kW	2.30 kW
Pdh Tj = -15°C (if TOL<-20°C) 5.70 4.90	Annual energy consumption Qhe	4132 kWh	4967 kWh
	Pdh Tj = -15 °C (if TOL< -20 °C)	5.70	4.90
COP Tj = -15°C (if TOL<-20°C) 2.44 1.72	COP Tj = -15 °C (if TOL< -20 °C)	2.44	1.72
Cdh Tj = -15 °C 0.980 0.980	Cdh Tj = -15 °C	0.980	0.980

Average Climate

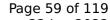
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





T	ARK database on 22 Jun 202
7.00 kW	7.00 kW
4.90	3.32
-10 °C	-7 °C
-10 °C	-10 °C
6.30 kW	6.20 kW
2.80	1.86
0.980	0.990
3.80 kW	3.80 kW
5.03	3.33
0.940	0.960
3.00 kW	2.70 kW
6.56	4.52
0.900	0.920
3.40 kW	3.30 kW
8.47	6.26
0.890	0.910
7.00 kW	6.20 kW
2.60	1.86
7.00 kW	6.20 kW
2.60	1.70
55 °C	55 °C
	7.00 kW 4.90 -10 °C -10 °C 6.30 kW 2.80 0.980 3.80 kW 5.03 0.940 3.00 kW 6.56 0.900 3.40 kW 8.47 0.890 7.00 kW 2.60 7.00 kW





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
СОР	3.50
Heating up time	1:22 h:min
Standby power input	30.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	234

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.47
Heating up time	1:22 h:min
Standby power input	37.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	234

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	120 %
СОР	3.00
Heating up time	1:22 h:min
Standby power input	31.0 W
Reference hot water temperature	52.3 °C
Mixed water at 40°C	234



Model: WH-ADC0309J3E5B / WH-UD09JE5-1

Configure model		
Model name	WH-ADC0309J3E5B / WH-UD09JE5-1	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

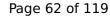
	General Data	
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	8.95 kW
El input	2.01 kW	3.22 kW
СОР	4.48	2.78

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

Cooling





EN 14511-2			
+7°C/+12°C +18°C/+23°C			
El input	3.02 kW	1.74 kW	
Cooling capacity	8.20	7.60	
EER	2.72	4.37	

EN 14825





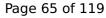
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	w
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920



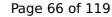


Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





This information was gener		
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

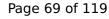
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





Prated	7.00 kW	7.00 kW
SCOP	4.90	3.32
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
$COP Tj = -7^{\circ}C$	2.80	1.86
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	3.80 kW	3.80 kW
COP Tj = +2°C	5.03	3.33
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.70 kW
$COP Tj = +7^{\circ}C$	6.56	4.52
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.47	6.26
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	7.00 kW	6.20 kW
COP Tj = Tbiv	2.60	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.70
WTOL	55 °C	55 °C





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	140 %	
СОР	3.50	
Heating up time	1:22 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.47	
Heating up time	1:22 h:min	
Standby power input	37.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
COP	3.00	
Heating up time	1:22 h:min	
	31.0 W	
Standby power input		
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234 I	



Model: WH-ADC0309J3E5AN / WH-UD09JE5-1

Configure model		
Model name	WH-ADC0309J3E5AN / WH-UD09JE5-1	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

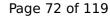
General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.00 kW	8.95 kW	
El input	2.01 kW	3.22 kW	
СОР	4.48	2.78	

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

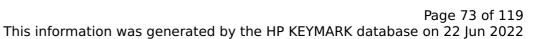
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	3.02 kW	1.74 kW
Cooling capacity	8.20	7.60
EER	2.72	4.37

EN 14825





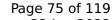
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

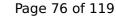




Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

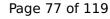
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
	*	•





ring information was gener		
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08



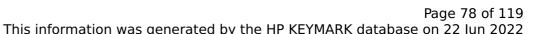


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

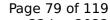
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





This information was generated by the HP KEYMARK database on 22 Ju			
Prated	7.00 kW	7.00 kW	
SCOP	4.90	3.32	
Tbiv	-10 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	6.30 kW	6.20 kW	
COP Tj = -7°C	2.80	1.86	
Cdh Tj = -7 °C	0.980	0.990	
Pdh Tj = +2°C	3.80 kW	3.80 kW	
COP Tj = +2°C	5.03	3.33	
Cdh Tj = +2 °C	0.940	0.960	
Pdh Tj = +7°C	3.00 kW	2.70 kW	
$COPTj = +7^{\circ}C$	6.56	4.52	
Cdh Tj = +7 °C	0.900	0.920	
Pdh Tj = 12°C	3.40 kW	3.30 kW	
COP Tj = 12°C	8.47	6.26	
Cdh Tj = +12 °C	0.890	0.910	
Pdh Tj = Tbiv	7.00 kW	6.20 kW	
COP Tj = Tbiv	2.60	1.86	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.20 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.70	
WTOL	55 °C	55 °C	





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	140 %	
СОР	3.50	
Heating up time	1:22 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.47	
Heating up time	1:22 h:min	
Standby power input	37.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
СОР	3.00	
Heating up time	1:22 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	



Model: WH-ADC0309J3E5UK / WH-UD09JE5-1

Configure model		
Model name WH-ADC0309J3E5UK / WH-UD09JE5-1		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

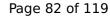
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	8.95 kW	
El input	2.01 kW	3.22 kW	
СОР	4.48	2.78	

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

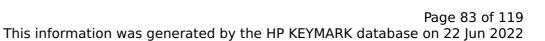
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	3.02 kW	1.74 kW
Cooling capacity	8.20	7.60
EER	2.72	4.37

EN 14825





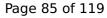
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = $+7^{\circ}$ C	4.50 kW	3.80 kW
$COP Tj = +7^{\circ}C$	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

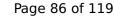




Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

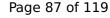
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
	*	•





ring information was gener		
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08



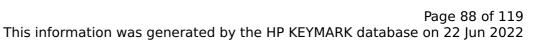


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

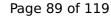
EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	193 %	130 %





7.00 kW	7.00 1.14
	7.00 kW
4.90	3.32
-10 °C	-7 °C
-10 °C	-10 °C
6.30 kW	6.20 kW
2.80	1.86
0.980	0.990
3.80 kW	3.80 kW
5.03	3.33
0.940	0.960
3.00 kW	2.70 kW
6.56	4.52
0.900	0.920
3.40 kW	3.30 kW
8.47	6.26
0.890	0.910
7.00 kW	6.20 kW
2.60	1.86
7.00 kW	6.20 kW
2.60	1.70
55 °C	55 °C
	-10 °C -10 °C 6.30 kW 2.80 0.980 3.80 kW 5.03 0.940 3.00 kW 6.56 0.900 3.40 kW 8.47 0.890 7.00 kW 2.60 7.00 kW





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	140 %	
СОР	3.50	
Heating up time	1:22 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.47	
Heating up time	1:22 h:min	
Standby power input	37.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
СОР	3.00	
Heating up time	1:22 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.3 °C	
Mixed water at 40°C	234	



Model: WH-SDC0709J3E5 / WH-UD09JE5-1

Configure model		
Model name	WH-SDC0709J3E5 / WH-UD09JE5-1	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	8.95 kW	
El input	2.01 kW	3.22 kW	
СОР	4.48	2.78	

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

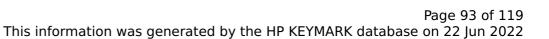
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	3.02 kW	1.74 kW
Cooling capacity	8.20	7.60
EER	2.72	4.37

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	0 W	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = $+7^{\circ}$ C	4.50 kW	3.80 kW
$COP Tj = +7^{\circ}C$	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

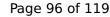




Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

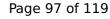
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





ring information was gener		
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08



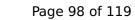


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





7.00 kW	7.00 kW
4.90	3.32
-10 °C	-7 °C
-10 °C	-10 °C
6.30 kW	6.20 kW
2.80	1.86
0.980	0.990
3.80 kW	3.80 kW
5.03	3.33
0.940	0.960
3.00 kW	2.70 kW
6.56	4.52
0.900	0.920
3.40 kW	3.30 kW
8.47	6.26
0.890	0.910
7.00 kW	6.20 kW
2.60	1.86
7.00 kW	6.20 kW
2.60	1.70
55 °C	55 °C
	4.90 -10 °C -10 °C -10 °C 6.30 kW 2.80 0.980 3.80 kW 5.03 0.940 3.00 kW 6.56 0.900 3.40 kW 8.47 0.890 7.00 kW 2.60 7.00 kW



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This information was generated by the HP KEYMARK database on 22 Jun 2022

Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh



Model: WH-ADC0309J3E5C / WH-UD09JE5-1

Configure model		
Model name	WH-ADC0309J3E5C / WH-UD09JE5-1	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

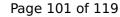
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	8.95 kW
El input	2.01 kW	3.22 kW
СОР	4.48	2.78

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

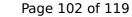
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	3.02 kW	1.74 kW
Cooling capacity	8.20	7.60
EER	2.72	4.37

EN 14825





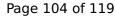
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = $+7^{\circ}$ C	4.50 kW	3.80 kW
$COP Tj = +7^{\circ}C$	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

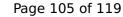




Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





ins mornation was gener	acea by the in Reinn	in in database on 22 juin 202.
η_{S}	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7 °C	4.20 kW	3.60 kW
$COPTj = -7^{\circ}C$	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
$COP Tj = +7^{\circ}C$	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08



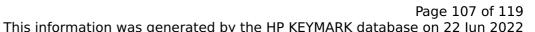


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

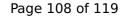
EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 59 dB(A) 59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	193 %	130 %





	ARK database on 22 Jun 202
7.00 kW	7.00 kW
4.90	3.32
-10 °C	-7 °C
-10 °C	-10 °C
6.30 kW	6.20 kW
2.80	1.86
0.980	0.990
3.80 kW	3.80 kW
5.03	3.33
0.940	0.960
3.00 kW	2.70 kW
6.56	4.52
0.900	0.920
3.40 kW	3.30 kW
8.47	6.26
0.890	0.910
7.00 kW	6.20 kW
2.60	1.86
7.00 kW	6.20 kW
2.60	1.70
55 °C	55 °C
	4.90 -10 °C -10 °C -10 °C 6.30 kW 2.80 0.980 3.80 kW 5.03 0.940 3.00 kW 6.56 0.900 3.40 kW 8.47 0.890 7.00 kW 2.60 7.00 kW





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	134 %
СОР	3.35
Heating up time	1:01 h:min
Standby power input	34.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	232



EN 16147	
Declared load profile	L
Efficiency ηDHW	98 %
СОР	2.45
Heating up time	1:01 h:min
Standby power input	45.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	234

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	116 %
СОР	2.90
Heating up time	1:01 h:min
Standby power input	39.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	232



Model: WH-ADC0309J3E5ANC / WH-UD09JE5-1

Configure model		
Model name WH-ADC0309J3E5ANC / WH-UD09JE5-1		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

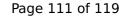
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	8.95 kW	
El input	2.01 kW	3.22 kW	
СОР	4.48	2.78	

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

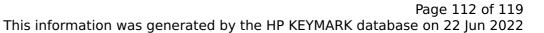
Cooling





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	3.02 kW	1.74 kW	
Cooling capacity	8.20	7.60	
EER	2.72	4.37	

EN 14825





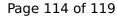
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.00 kW	kW
SEER	5.08	
Pdc Tj = 35°C	7.00 kW	kW
EER Tj = 35°C	2.95	
Pdc Tj = 30°C	5.16 kW	kW
EER Tj = 30°C	4.00	
Cdc	0.9	
Pdc Tj = 25°C	3.32 kW	kW
EER Tj = 25°C	5.91	
Cdc	0.9	
Pdc Tj = 20°C	1.47 kW	kW
EER Tj = 20°C	7.54	
Cdc	0.9	
Poff	8 W	W
РТО	o w	W
PSB	8 W	W
PCK	o w	W
Annual energy consumption Qce	482 kWh	kWh

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.50 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920





Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

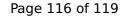
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
	*	•





This information was gener	acea by the in Reimin	riik database on 22 jan 2022
η_{s}	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.20 kW	3.60 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.50 kW	2.20 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	3.00 kW	2.80 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	5.70 kW	4.90 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08



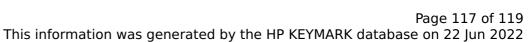


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.30 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.70	4.90
COP Tj = -15°C (if TOL $<$ -20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

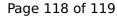
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	193 %	130 %





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Prated	7.00 kW	7.00 kW
SCOP	4.90	3.32
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.20 kW
$COP Tj = -7^{\circ}C$	2.80	1.86
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	3.80 kW	3.80 kW
COP Tj = +2°C	5.03	3.33
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = $+7^{\circ}$ C	3.00 kW	2.70 kW
$COP Tj = +7^{\circ}C$	6.56	4.52
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.30 kW
COP Tj = 12°C	8.47	6.26
Cdh Tj = +12 °C	0.890	0.910
Pdh Tj = Tbiv	7.00 kW	6.20 kW
COP Tj = Tbiv	2.60	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.70
WTOL	55 °C	55 °C





Poff	2 W	2 W
РТО	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	2949 kWh	4354 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	134 %	
СОР	3.35	
Heating up time	1:01 h:min	
Standby power input	34.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	232 I	



EN 16147		
Declared load profile	L	
Efficiency ηDHW	98 %	
СОР	2.45	
Heating up time	1:01 h:min	
Standby power input	45.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	234	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	116 %	
СОР	2.90	
Heating up time	1:01 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	232 I	