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Login

Summary of	Aquarea Split 3-5 kW STD (J Series)	Reg. No.	011-1W0207		
Certificate Holder	Certificate Holder				
Name	Panasonic Marketing Europe GmbH				
Address	Hagenauer Strasse 43, Wiesbaden	Zip	65203		
City	Wiesbaden	Country	Germany		
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH				
Subtype title	Aquarea Split 3-5 kW STD (J Series)				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R32				
Mass of Refrigerant	0.9 kg				
Certification Date	08.01.2020				
Testing basis	HP KEYMARK certification scheme rules V7				



Model: WH-ADC0309J3E5 / WH-UD03JE5

Configure model		
Model name	WH-ADC0309J3E5 / WH-UD03JE5	
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	3.20 kW	3.20 kW		
El input	0.60 kW	1.14 kW		
СОР	5.33	2.81		

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	0.91 kW	0.68 kW	
Cooling capacity	3.20	3.20	
EER	3.52	4.71	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	167 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	55 dB(A)	55 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	245 %	165 %	
Prated	4.00 kW	4.00 kW	
SCOP	6.20	4.20	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	4.00 kW	3.90 kW	
COP Tj = +2°C	3.15	1.80	
Cdh Tj = +2 °C	0.980	0.990	
Pdh Tj = +7°C	2.60 kW	2.50 kW	
COP Tj = +7°C	5.61	3.55	
Cdh Tj = +7 °C	0.940	0.960	
Pdh Tj = 12°C	1.50 kW	1.40 kW	
COP Tj = 12°C	8.35	6.00	
Cdh Tj = +12 °C	0.940	0.890	
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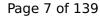


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COD Ti This	2.15	1.00
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
DTO	26 W	26 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh
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Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	41 dB(A)	41 dB(A)		
Sound power level outdoor	55 dB(A)	55 dB(A)		

EN 14825			
	Low temperature	Medium temperature	





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η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	1.80 kW	1.20 kW
$COP Tj = -7^{\circ}C$	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = $+2$ °C	1.80 kW	1.40 kW
$COPTj = +2^{\circ}C$	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = $+7^{\circ}$ C	1.30 kW	1.20 kW
$COPTj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 55 dB(A) 55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	200 %	136 %





This information was generated by the HP KEYMARK database on 22 jun 202				
Prated	4.00 kW	3.00 kW		
SCOP	5.07	3.47		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7° C	3.50 kW	2.60 kW		
$COP Tj = -7^{\circ}C$	2.80	2.18		
Cdh Tj = -7 °C	0.980	0.980		
Pdh Tj = $+2$ °C	2.00 kW	1.60 kW		
$COPTj = +2^{\circ}C$	5.14	3.42		
Cdh Tj = +2 °C	0.930	0.940		
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.10 kW		
$COPTj = +7^{\circ}C$	6.80	4.43		
Cdh Tj = +7 °C	0.870	0.900		
Pdh Tj = 12°C	1.60 kW	1.40 kW		
COP Tj = 12°C	9.50	6.97		
Cdh Tj = +12 °C	0.840	0.570		
Pdh Tj = Tbiv	4.00 kW	2.90 kW		
COP Tj = Tbiv	2.60	1.66		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	2.90 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.66		
WTOL	55 °C	55 °C		
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Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	155 %
СОР	3.88
Heating up time	1:28 h:min
Standby power input	27.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.48	
Heating up time	1:28 h:min	
Standby power input	33.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:28 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	



Model: WH-ADC0309J3E5 / WH-UD05JE5

Configure model		
Model name	WH-ADC0309J3E5 / WH-UD05JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

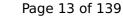
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.00 kW	1.84 kW
СОР	5.00	2.72

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	1.50 kW	1.12 kW	
Cooling capacity	4.50	4.80	
EER	3.00	4.29	

EN 14825



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	CEN heat pump
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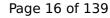
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 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	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890





Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

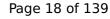
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature





This information was gener		
η_s	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

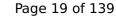
Sound power level outdoor

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

55 dB(A)

55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	200 %	136 %
	-	





Prated	5.00 kW	4.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.20 kW	3.40 kW
$COPTj = -7^{\circ}C$	2.66	1.93
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	2.50 kW	2.10 kW
COP Tj = +2°C	5.15	3.48
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	1.70 kW	1.40 kW
$COPTj = +7^{\circ}C$	6.95	4.60
Cdh Tj = +7 °C	0.890	0.910
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.45	6.90
Cdh Tj = +12 °C	0.850	0.880
Pdh Tj = Tbiv	4.70 kW	3.80 kW
COP Tj = Tbiv	2.50	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.55
WTOL	55 °C	55 °C



Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	155 %
СОР	3.88
Heating up time	1:28 h:min
Standby power input	27.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:28 h:min
Standby power input	33.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:28 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	

Model: WH-ADC0309J3E5B / WH-UD03JE5

Configure model		
Model name	WH-ADC0309J3E5B / WH-UD03JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

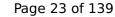
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.20 kW	3.20 kW
El input	0.60 kW	1.14 kW
СОР	5.33	2.81

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	0.91 kW	0.68 kW
Cooling capacity	3.20	3.20
EER	3.52	4.71

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
PTO	0 W	W
PSB	5 W	w
PCK	o w	W
Annual energy consumption Qce	167 kWh	kWh

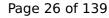
Warmer Climate





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.940	0.890



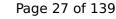


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature





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η_s	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





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WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %
	·	





Prated	4.00 kW	3.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.50 kW	2.60 kW
$COPTj = -7^{\circ}C$	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	2.00 kW	1.60 kW
COP Tj = +2°C	5.14	3.42
Cdh Tj = +2 °C	0.930	0.940
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.10 kW
$COP Tj = +7^{\circ}C$	6.80	4.43
Cdh Tj = +7 °C	0.870	0.900
Pdh Tj = 12°C	1.60 kW	1.40 kW
COP Tj = 12°C	9.50	6.97
Cdh Tj = +12 °C	0.840	0.570
Pdh Tj = Tbiv	4.00 kW	2.90 kW
COP Tj = Tbiv	2.60	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.66
WTOL	55 °C	55 °C



Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	155 %
СОР	3.88
Heating up time	1:28 h:min
Standby power input	27.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:28 h:min
Standby power input	33.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	132 %
СОР	3.30
Heating up time	1:28 h:min
Standby power input	30.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239



Model: WH-ADC0309J3E5AN / WH-UD03JE5

Configure model		
Model name	WH-ADC0309J3E5AN / WH-UD03JE5	
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	

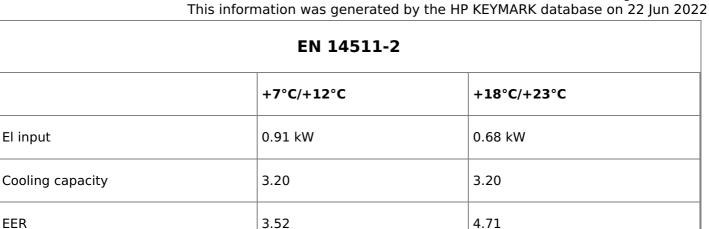
Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.20 kW	3.20 kW	
El input	0.60 kW	1.14 kW	
СОР	5.33	2.81	

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 14825

CEN heat pump

3.52 4.71



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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	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	167 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.940	0.890



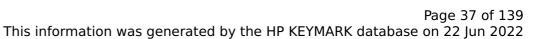


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





		NK database on 22 juli 202.
η_s	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	1.80 kW	1.20 kW
$COP Tj = -7^{\circ}C$	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = $+2$ °C	1.80 kW	1.40 kW
$COPTj = +2^{\circ}C$	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = $+7^{\circ}$ C	1.30 kW	1.20 kW
$COPTj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05



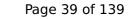


WTOL	55 °C	55 °C
WIGE	33 C	33 C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 55 dB(A) 55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





This information was general		<u> </u>
Prated	4.00 kW	3.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.50 kW	2.60 kW
$COPTj = -7^{\circ}C$	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	2.00 kW	1.60 kW
COP Tj = +2°C	5.14	3.42
Cdh Tj = +2 °C	0.930	0.940
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.10 kW
$COPTj = +7^{\circ}C$	6.80	4.43
Cdh Tj = +7 °C	0.870	0.900
Pdh Tj = 12°C	1.60 kW	1.40 kW
COP Tj = 12°C	9.50	6.97
Cdh Tj = +12 °C	0.840	0.570
Pdh Tj = Tbiv	4.00 kW	2.90 kW
COP Tj = Tbiv	2.60	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.66
WTOL	55 °C	55 °C



Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	155 %	
СОР	3.88	
Heating up time	1:28 h:min	
Standby power input	27.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239	

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.48	
Heating up time	1:28 h:min	
Standby power input	33.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:28 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	



Model: WH-ADC0309J3E5UK / WH-UD03JE5

Configure model		
Model name	WH-ADC0309J3E5UK / WH-UD03JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

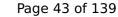
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.20 kW	3.20 kW
El input	0.60 kW	1.14 kW
СОР	5.33	2.81

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	0.91 kW	0.68 kW	
Cooling capacity	3.20	3.20	
EER	3.52	4.71	

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	167 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.940	0.890



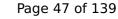


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature





This information was gener	acea by the in Reimin	int database on 22 jan 2022
η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





WTOL	55 °C	55 °C
WIGE	33 C	33 C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

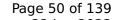
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





4.00 kW	3.00 kW
5.07	3.47
-10 °C	-10 °C
-10 °C	-10 °C
3.50 kW	2.60 kW
2.80	2.18
0.980	0.980
2.00 kW	1.60 kW
5.14	3.42
0.930	0.940
1.40 kW	1.10 kW
6.80	4.43
0.870	0.900
1.60 kW	1.40 kW
9.50	6.97
0.840	0.570
4.00 kW	2.90 kW
2.60	1.66
4.00 kW	2.90 kW
2.60	1.66
55 °C	55 °C
	5.07 -10 °C -10 °C -10 °C 3.50 kW 2.80 0.980 2.00 kW 5.14 0.930 1.40 kW 6.80 0.870 1.60 kW 9.50 0.840 4.00 kW 2.60 4.00 kW





Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	155 %
СОР	3.88
Heating up time	1:28 h:min
Standby power input	27.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:28 h:min
Standby power input	33.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	132 %
СОР	3.30
Heating up time	1:28 h:min
Standby power input	30.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Model: WH-ADC0309J3E5B / WH-UD05JE5

Configure model		
Model name	WH-ADC0309J3E5B / WH-UD05JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

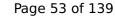
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.00 kW	1.84 kW
СОР	5.00	2.72

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	1.50 kW	1.12 kW
Cooling capacity	4.50	4.80
EER	3.00	4.29

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890



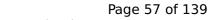


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener	ated by the Hi KEIMA	TRK database on 22 juli 202
η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
$COPTj = -7^{\circ}C$	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = $+7^{\circ}$ C	1.30 kW	1.20 kW
$COPTj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





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WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





Prated	5.00 kW	4.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.20 kW	3.40 kW
$COPTj = -7^{\circ}C$	2.66	1.93
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	2.50 kW	2.10 kW
COP Tj = +2°C	5.15	3.48
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	1.70 kW	1.40 kW
$COP Tj = +7^{\circ}C$	6.95	4.60
Cdh Tj = +7 °C	0.890	0.910
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.45	6.90
Cdh Tj = +12 °C	0.850	0.880
Pdh Tj = Tbiv	4.70 kW	3.80 kW
COP Tj = Tbiv	2.50	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.55
WTOL	55 °C	55 °C





Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	155 %
СОР	3.88
Heating up time	1:28 h:min
Standby power input	27.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Colder Climate

239 I



EN 16147 Declared load profile Efficiency ηDHW 99 % COP 2.48 1:28 h:min Heating up time Standby power input 33.0 W 52.4 °C Reference hot water temperature

Average Climate

Mixed water at 40°C

EN 16147	
Declared load profile	L
Efficiency ηDHW	132 %
СОР	3.30
Heating up time	1:28 h:min
Standby power input	30.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I



Model: WH-ADC0309J3E5AN / WH-UD05JE5

Configure model	
Model name	WH-ADC0309J3E5AN / WH-UD05JE5
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	5.00 kW	5.00 kW	
El input	1.00 kW	1.84 kW	
СОР	5.00	2.72	

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	1.50 kW	1.12 kW
Cooling capacity	4.50	4.80
EER	3.00	4.29

EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890



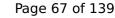


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COD Ti This	2.15	1.00
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
DTO	26 W	26 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh
		·

Colder Climate

EN 12102-1Low temperatureMedium temperatureSound power level indoor41 dB(A)41 dB(A)Sound power level outdoor55 dB(A)55 dB(A)

EN 14825		
	Low temperature	Medium temperature





ring information mas gener	acea by the in item.	interdedade on 22 jun 202
η_s	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





	•	
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





This information was genera		
Prated	5.00 kW	4.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	4.20 kW	3.40 kW
$COPTj = -7^{\circ}C$	2.66	1.93
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	2.50 kW	2.10 kW
COP Tj = +2°C	5.15	3.48
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	1.70 kW	1.40 kW
$COPTj = +7^{\circ}C$	6.95	4.60
Cdh Tj = +7 °C	0.890	0.910
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.45	6.90
Cdh Tj = +12 °C	0.850	0.880
Pdh Tj = Tbiv	4.70 kW	3.80 kW
COP Tj = Tbiv	2.50	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.55
WTOL	55 °C	55 °C
	-	



Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	155 %
СОР	3.88
Heating up time	1:28 h:min
Standby power input	27.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:28 h:min
Standby power input	33.0 W
Reference hot water temperature	52.4 °C
Mixed water at 40°C	239 I

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:28 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	



Model: WH-ADC0309J3E5UK / WH-UD05JE5

Configure model		
Model name	WH-ADC0309J3E5UK / WH-UD05JE5	
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	5.00 kW	5.00 kW
El input	1.00 kW	1.84 kW
СОР	5.00	2.72

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





 $$\operatorname{\textit{Page}}\xspace$ 73 of 139 This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1.50 kW	1.12 kW	
Cooling capacity	4.50	4.80	
EER	3.00	4.29	

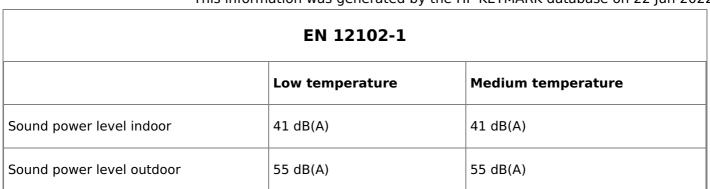
EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 kWh	kWh

Warmer Climate



CEN heat pump

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890



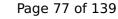


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COD Ti This	2.15	1.00
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
DTO	26 W	26 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh
		·

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature





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η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
$COP Tj = -7^{\circ}C$	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
COP Tj = +7°C	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05



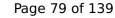


WTOL	55 °C	55 °C
WIGE	33 C	33 C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

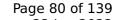
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	200 %	136 %





Prated	5.00 kW	4.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.20 kW	3.40 kW
$COPTj = -7^{\circ}C$	2.66	1.93
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	2.50 kW	2.10 kW
COP Tj = +2°C	5.15	3.48
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	1.70 kW	1.40 kW
$COP Tj = +7^{\circ}C$	6.95	4.60
Cdh Tj = +7 °C	0.890	0.910
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.45	6.90
Cdh Tj = +12 °C	0.850	0.880
Pdh Tj = Tbiv	4.70 kW	3.80 kW
COP Tj = Tbiv	2.50	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.55
WTOL	55 °C	55 °C





Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	155 %	
СОР	3.88	
Heating up time	1:28 h:min	
Standby power input	27.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.48	
Heating up time	1:28 h:min	
Standby power input	33.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239 I	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:28 h:min	
Standby power input	30.0 W	
Reference hot water temperature	52.4 °C	
Mixed water at 40°C	239	



Model: WH-SDC0305J3E5 / WH-UD03JE5

Configure model		
Model name WH-SDC0305J3E5 / WH-UD03JE5		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

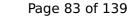
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.20 kW	3.20 kW
El input	0.60 kW	1.14 kW
СОР	5.33	2.81

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

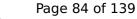
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	0.91 kW	0.68 kW
Cooling capacity	3.20	3.20
EER	3.52	4.71

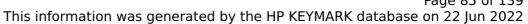
EN 14825





	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	167 kWh	kWh

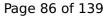
Warmer Climate





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.940	0.890



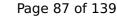


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COD Ti This	2.15	1.00
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
ran ij raz ar an ij razsigini i raz a razsigini	III W	JISO KII
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
DTO	26 W	26 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh
		·

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener		
η_s	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05



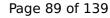


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WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





4.00 kW	3.00 kW
5.07	3.47
-10 °C	-10 °C
-10 °C	-10 °C
3.50 kW	2.60 kW
2.80	2.18
0.980	0.980
2.00 kW	1.60 kW
5.14	3.42
0.930	0.940
1.40 kW	1.10 kW
6.80	4.43
0.870	0.900
1.60 kW	1.40 kW
9.50	6.97
0.840	0.570
4.00 kW	2.90 kW
2.60	1.66
4.00 kW	2.90 kW
2.60	1.66
55 °C	55 °C
	5.07 -10 °C -10 °C -10 °C 3.50 kW 2.80 0.980 2.00 kW 5.14 0.930 1.40 kW 6.80 0.870 1.60 kW 9.50 0.840 4.00 kW 2.60 4.00 kW



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

Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh



Model: WH-SDC0305J3E5 / WH-UD05JE5

Configure model		
Model name	WH-SDC0305J3E5 / WH-UD05JE5	
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	5.00 kW	5.00 kW
El input	1.00 kW	1.84 kW
СОР	5.00	2.72

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

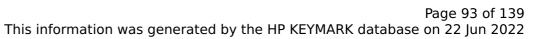
Cooling





EN 14511-2			
	+7°C/+12°C	+18°C/+23°C	
El input	1.50 kW	1.12 kW	
Cooling capacity	4.50	4.80	
EER	3.00	4.29	

EN 14825



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	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	w
РТО	0 W	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890



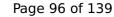


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

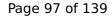
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature





This information was generated by the HP KEYMARK database on 22 Jun 2022		
η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	1.80 kW	1.20 kW
$COP Tj = -7^{\circ}C$	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = $+2$ °C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = $+7^{\circ}$ C	1.30 kW	1.20 kW
$COPTj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05
	1	





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





<u> </u>	<u>, </u>	The database on 22 Juli 202.
Prated	5.00 kW	4.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.20 kW	3.40 kW
$COPTj = -7^{\circ}C$	2.66	1.93
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = $+2$ °C	2.50 kW	2.10 kW
COP Tj = +2°C	5.15	3.48
Cdh Tj = +2 °C	0.950	0.960
Pdh Tj = $+7^{\circ}$ C	1.70 kW	1.40 kW
$COP Tj = +7^{\circ}C$	6.95	4.60
Cdh Tj = +7 °C	0.890	0.910
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.45	6.90
Cdh Tj = +12 °C	0.850	0.880
Pdh Tj = Tbiv	4.70 kW	3.80 kW
COP Tj = Tbiv	2.50	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.55
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	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh



Model: WH-ADC0309J3E5C / WH-UD03JE5

Configure model		
Model name	WH-ADC0309J3E5C / WH-UD03JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

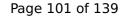
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	3.20 kW	3.20 kW	
El input	0.60 kW	1.14 kW	
СОР	5.33	2.81	

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

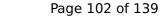
Cooling





EN 14511-2		
+7°C/+12°C +18°C/+23°C		
El input	0.91 kW	0.68 kW
Cooling capacity	3.20	3.20
EER	3.52	4.71

EN 14825





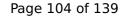
	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	167 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.940	0.890





Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 41 dB(A) 41 dB(A) Sound power level outdoor 55 dB(A) 55 dB(A)

EN 14825		
	Low temperature	Medium temperature





rins information was gener	acea by the in Reimin	int database on 22 jun 202
η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
$COP Tj = -7^{\circ}C$	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05



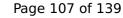


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

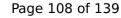
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	200 %	136 %





	<u> </u>	NK database on 22 juli 202
Prated	4.00 kW	3.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.50 kW	2.60 kW
$COPTj = -7^{\circ}C$	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	2.00 kW	1.60 kW
COP Tj = +2°C	5.14	3.42
Cdh Tj = +2 °C	0.930	0.940
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.10 kW
$COPTj = +7^{\circ}C$	6.80	4.43
Cdh Tj = +7 °C	0.870	0.900
Pdh Tj = 12°C	1.60 kW	1.40 kW
COP Tj = 12°C	9.50	6.97
Cdh Tj = +12 °C	0.840	0.570
Pdh Tj = Tbiv	4.00 kW	2.90 kW
COP Tj = Tbiv	2.60	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.66
WTOL	55 °C	55 °C
	-	•





Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	154 %	
СОР	3.86	
Heating up time	1:32 h:min	
Standby power input	28.0 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	239	

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:32 h:min
Standby power input	34.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239 I

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	129 %
СОР	3.23
Heating up time	1:32 h:min
Standby power input	31.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239 I



Model: WH-ADC0309J3E5ANC / WH-UD03JE5

Configure model		
Model name WH-ADC0309J3E5ANC / WH-UD03JE5		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

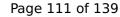
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	3.20 kW	3.20 kW
El input	0.60 kW	1.14 kW
СОР	5.33	2.81

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	0.91 kW	0.68 kW	
Cooling capacity	3.20	3.20	
EER	3.52	4.71	

EN 14825





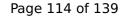
	+7°C/+12°C	+18°C/+23°C
Pdesignc	3.00 kW	kW
SEER	6.29	
Pdc Tj = 35°C	3.00 kW	kW
EER Tj = 35°C	3.95	
Pdc Tj = 30°C	2.21 kW	kW
EER Tj = 30°C	5.37	
Cdc	0.9	
Pdc Tj = 25°C	1.42 kW	kW
EER Tj = 25°C	7.44	
Cdc	0.9	
Pdc Tj = 20°C	0.63 kW	kW
EER Tj = 20°C	8.93	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	w
Annual energy consumption Qce	167 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.940	0.890



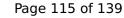


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

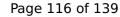
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
	*	•





This information was gener	acea by the in Reimin	int database on 22 jan 2022
η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05





WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

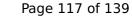
Sound power level outdoor

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

55 dB(A)

55 dB(A)

Medium temperature
136 %
_





This information was gener	The Thirt Remarks	TRIC database on 22 jun 202
Prated	4.00 kW	3.00 kW
SCOP	5.07	3.47
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	3.50 kW	2.60 kW
$COP Tj = -7^{\circ}C$	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = $+2$ °C	2.00 kW	1.60 kW
$COP Tj = +2^{\circ}C$	5.14	3.42
Cdh Tj = +2 °C	0.930	0.940
Pdh $Tj = +7$ °C	1.40 kW	1.10 kW
$COP Tj = +7^{\circ}C$	6.80	4.43
Cdh Tj = +7 °C	0.870	0.900
Pdh Tj = 12°C	1.60 kW	1.40 kW
COP Tj = 12°C	9.50	6.97
Cdh Tj = $+12$ °C	0.840	0.570
Pdh Tj = Tbiv	4.00 kW	2.90 kW
COP Tj = Tbiv	2.60	1.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.66
WTOL	55 °C	55 °C
		!



Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	1631 kWh	1788 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	154 %	
СОР	3.86	
Heating up time	1:32 h:min	
Standby power input	28.0 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	239 I	

Colder Climate



EN 16147		
Declared load profile	L	
Efficiency ηDHW	99 %	
СОР	2.48	
Heating up time	1:32 h:min	
Standby power input	34.0 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	239 I	

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	129 %	
СОР	3.23	
Heating up time	1:32 h:min	
Standby power input	31.0 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	239 I	



Model: WH-ADC0309J3E5C / WH-UD05JE5

Configure model		
Model name	WH-ADC0309J3E5C / WH-UD05JE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

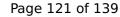
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.00 kW	5.00 kW
El input	1.00 kW	1.84 kW
СОР	5.00	2.72

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

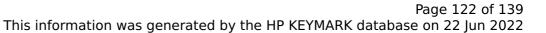
Cooling





EN 14511-2		
	+7°C/+12°C	+18°C/+23°C
El input	1.50 kW	1.12 kW
Cooling capacity	4.50	4.80
EER	3.00	4.29

EN 14825





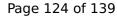
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890



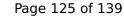


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
	*	•





ring information mas gener	acea by the in item.	interdedade on 22 jun 202
η_s	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.80 kW	1.20 kW
COP Tj = -7°C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = +7 °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05



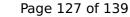


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WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{S}	200 %	136 %





This information was generated by the HF KETMAKK database on 22 jun 2022				
Prated	5.00 kW	4.00 kW		
SCOP	5.07	3.47		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7° C	4.20 kW	3.40 kW		
$COPTj = -7^{\circ}C$	2.66	1.93		
Cdh Tj = -7 °C	0.980	0.990		
Pdh Tj = $+2$ °C	2.50 kW	2.10 kW		
COP Tj = +2°C	5.15	3.48		
Cdh Tj = +2 °C	0.950	0.960		
Pdh Tj = $+7^{\circ}$ C	1.70 kW	1.40 kW		
$COP Tj = +7^{\circ}C$	6.95	4.60		
Cdh Tj = +7 °C	0.890	0.910		
Pdh Tj = 12°C	1.60 kW	1.50 kW		
COP Tj = 12°C	9.45	6.90		
Cdh Tj = +12 °C	0.850	0.880		
Pdh Tj = Tbiv	4.70 kW	3.80 kW		
COP Tj = Tbiv	2.50	1.55		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.70 kW	3.80 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.55		
WTOL	55 °C	55 °C		
	+	-		



Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	154 %
СОР	3.86
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:32 h:min
Standby power input	34.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239 I

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	129 %
СОР	3.23
Heating up time	1:32 h:min
Standby power input	31.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239 I



Model: WH-ADC0309J3E5ANC / WH-UD05JE5

Configure model		
Model name WH-ADC0309J3E5ANC / WH-UD05JE5		
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	5.00 kW	5.00 kW	
El input	1.00 kW	1.84 kW	
СОР	5.00	2.72	

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	1.50 kW	1.12 kW	
Cooling capacity	4.50	4.80	
EER	3.00	4.29	

EN 14825





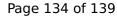
	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	kW
SEER	6.20	
Pdc Tj = 35°C	4.00 kW	kW
EER Tj = 35°C	3.47	
Pdc Tj = 30°C	2.95 kW	kW
EER Tj = 30°C	5.12	
Cdc	0.9	
Pdc Tj = 25°C	1.89 kW	kW
EER Tj = 25°C	7.31	
Cdc	0.9	
Pdc Tj = 20°C	0.84 kW	kW
EER Tj = 20°C	9.26	
Cdc	0.9	
Poff	5 W	W
РТО	o w	W
PSB	5 W	W
PCK	o w	W
Annual energy consumption Qce	226 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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	165 %
Prated	4.00 kW	4.00 kW
SCOP	6.20	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.00 kW	3.90 kW
COP Tj = +2°C	3.15	1.80
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.60 kW	2.50 kW
COP Tj = +7°C	5.61	3.55
Cdh Tj = +7 °C	0.940	0.960
Pdh Tj = 12°C	1.50 kW	1.40 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.860	0.890



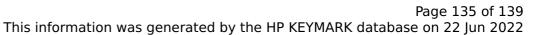


Pdh Tj = Tbiv	4.00 kW	3.90 kW
COD Ti This	2.15	1.00
COP Tj = Tbiv	3.15	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
ran i, raesigiin i raesigiin i raesigiin	III W	JISO KII
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.15	1.80
WTOL	55 °C	55 °C
Poff	2 W	2 W
DTO	26 W	26 W
PTO	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	862 kWh	1274 kWh
		·

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
	*	•





The first state of the garden	,	in the database on 22 juin 202
η_{s}	157 %	110 %
Prated	3.00 kW	2.00 kW
SCOP	4.00	2.83
Tbiv	-20 °C	-20 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7° C	1.80 kW	1.20 kW
COP Tj = -7 °C	3.26	2.16
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = $+2$ °C	1.80 kW	1.40 kW
COP Tj = +2°C	5.17	3.80
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = $+7^{\circ}$ C	1.30 kW	1.20 kW
$COP Tj = +7^{\circ}C$	7.00	5.05
Cdh Tj = $+7$ °C	0.860	0.890
Pdh Tj = 12°C	1.60 kW	1.50 kW
COP Tj = 12°C	9.00	7.60
Cdh Tj = +12 °C	0.850	0.870
Pdh Tj = Tbiv	2.80 kW	1.80 kW
COP Tj = Tbiv	1.80	1.36
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.00 kW	2.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.81	1.05
	1	



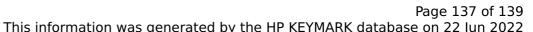


WTOL	55 °C	55 °C
Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	0.00 kW
Annual energy consumption Qhe	1848 kWh	1740 kWh
Pdh Tj = -15°C (if TOL<-20°C)	2.40	1.70
COP Tj = -15°C (if TOL $<$ -20°C)	2.29	1.76
Cdh Tj = -15 °C	0.980	0.970

Average Climate

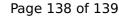
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{S}	200 %	136 %





5.00 kW	4.00 kW
5.07	3.47
-10 °C	-10 °C
-10 °C	-10 °C
4.20 kW	3.40 kW
2.66	1.93
0.980	0.990
2.50 kW	2.10 kW
5.15	3.48
0.950	0.960
1.70 kW	1.40 kW
6.95	4.60
0.890	0.910
1.60 kW	1.50 kW
9.45	6.90
0.850	0.880
4.70 kW	3.80 kW
2.50	1.55
4.70 kW	3.80 kW
2.50	1.55
55 °C	55 °C
	5.07 -10 °C -10 °C -10 °C 4.20 kW 2.66 0.980 2.50 kW 5.15 0.950 1.70 kW 6.95 0.890 1.60 kW 9.45 0.850 4.70 kW 2.50 4.70 kW





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

Poff	2 W	2 W
РТО	26 W	26 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.20 kW
Annual energy consumption Qhe	2038 kWh	2385 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	154 %	
СОР	3.86	
Heating up time	1:32 h:min	
Standby power input	28.0 W	
Reference hot water temperature	53.3 °C	
Mixed water at 40°C	239	

Colder Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	99 %
СОР	2.48
Heating up time	1:32 h:min
Standby power input	34.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239 I

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	129 %
СОР	3.23
Heating up time	1:32 h:min
Standby power input	31.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	239