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Login

Summary of	Aquarea Split 12-16 kW STD (H Series)	Reg. No.	011-1W0515
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 12-16 kW STD (H Series)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.55 kg		
Certification Date	08.12.2021		
Testing basis	HP KEYMARK certification scheme rules rev. 9		

Model: WH-ADC1216H6E5 / WH-UD12HE5

Configure model		
Model name	WH-ADC1216H6E5 / WH-UD12HE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	12.00 kW	12.00 kW	
El input	2.53 kW	4.10 kW	
СОР	4.74	2.93	

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



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990





Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825





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

This information was gener	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
$COPTj = -7^{\circ}C$	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.20 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW
	I	1





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

4286 kWh

4840 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.75	
Heating up time	0:58 h:min	
Standby power input	36.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	95 %	
СОР	2.37	
Heating up time	0:58 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256 I	

Model: WH-ADC1216H6E5UK / WH-UD12HE5

Configure model		
Model name WH-ADC1216H6E5UK / WH-UD12HE5		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Warmer Climate		
Reversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply	1x230V 50Hz	

Heating

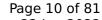
EN 14511-2			
Low temperature Medium temperature			
Heat output	12.00 kW	12.00 kW	
El input	2.53 kW	4.10 kW	
СОР	4.74	2.93	

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



EN 12102-1 Low temperature Medium temperature Sound power level indoor 46 dB(A) 46 dB(A) Sound power level outdoor 65 dB(A) 65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990





Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

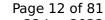
Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825



This information was gener	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
$COPTj = -7^{\circ}C$	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.20 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW
	I	1





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4286 kWh	4840 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.75	
Heating up time	0:58 h:min	
Standby power input	36.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	95 %	
СОР	2.37	
Heating up time	0:58 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256 I	

Model: WH-ADC1216H6E5C / WH-UD12HE5

Configure model		
Model name	WH-ADC1216H6E5C / WH-UD12HE5	
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone Warmer Climate		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	12.00 kW	12.00 kW	
El input	2.53 kW	4.10 kW	
СОР	4.74	2.93	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990



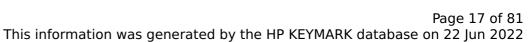


Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
COP Tj = -7°C	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.20 kW	4.90 kW
$COP Tj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	10.00 kW	8.00 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.68 2.05 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.900 0.900 55 °C WTOL 55 °C 3 W Poff 3 W PTO 12 W 12 W **PSB** 12 W 12 W **PCK** 39 W 39 W Supplementary Heater: Type of energy input Electricity Electricity

0.00 kW

4286 kWh

0.00 kW

4840 kWh

Domestic Hot Water (DHW)

Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

EN 16147		
Declared load profile	L	
Efficiency ηDHW	107 %	
СОР	2.68	
Heating up time	0:54 h:min	
Standby power input	32.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	228	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	92 %	
СОР	2.31	
Heating up time	0:54 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	228 I	



Model: WH-ADC0916H9E8 / WH-UD12HE8

Configure model		
Model name	WH-ADC0916H9E8 / WH-UD12HE8	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.53 kW	4.10 kW
СОР	4.74	2.93

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990





Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
COP Tj = -7°C	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.20 kW	4.90 kW
$COP Tj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4286 kWh	4840 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.75	
Heating up time	0:58 h:min	
Standby power input	36.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	95 %	
СОР	2.37	
Heating up time	0:58 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256 I	

Model: WH-ADC0916H9E8AN / WH-UD12HE8

Configure model		
Model name	WH-ADC0916H9E8AN / WH-UD12HE8	
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone	e Zone Warmer Climate	
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

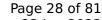
EN 14511-2			
Low temperature Medium temperature			
Heat output	12.00 kW	12.00 kW	
El input	2.53 kW	4.10 kW	
СОР	4.74	2.93	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990



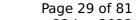


Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

Average Climate

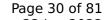
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





This information was gener	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
$COPTj = -7^{\circ}C$	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.20 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW
	I	1





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4286 kWh	4840 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.75	
Heating up time	0:58 h:min	
Standby power input	36.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256 l	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	95 %	
СОР	2.37	
Heating up time	0:58 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	256 I	



Model: WH-ADC1216H6E5 / WH-UD16HE5

Configure model		
Model name	WH-ADC1216H6E5 / WH-UD16HE5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

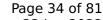
EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	14.50 kW
El input	3.74 kW	5.33 kW
СОР	4.28	2.72

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



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990





Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

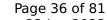
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	130 %
Prated	12.00 kW	13.00 kW
SCOP	4.82	3.33
Tbiv	-10 °C	-3 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	9.00 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.40 kW	7.10 kW
COP Tj = +2°C	4.83	3.29
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.30 kW	4.90 kW
COP Tj = +7°C	6.11	4.85
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	7.59	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	9.50 kW
COP Tj = Tbiv	2.77	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	8.70 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	107 %	
СОР	2.67	
Heating up time	0:44 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.27	
Heating up time	0:44 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	



Model: WH-ADC1216H6E5UK / WH-UD16HE5

Configure model		
Model name	WH-ADC1216H6E5UK / WH-UD16HE5	
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone Warmer Climate		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

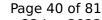
EN 14511-2			
Low temperature Medium temperature			
Heat output	16.00 kW	14.50 kW	
El input	3.74 kW	5.33 kW	
СОР	4.28	2.72	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990



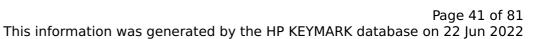


Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

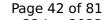
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	130 %
Prated	12.00 kW	13.00 kW
SCOP	4.82	3.33
Tbiv	-10 °C	-3 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	9.00 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.40 kW	7.10 kW
COP Tj = +2°C	4.83	3.29
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.30 kW	4.90 kW
COP Tj = +7°C	6.11	4.85
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	7.59	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	9.50 kW
COP Tj = Tbiv	2.77	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	8.70 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	107 %	
СОР	2.67	
Heating up time	0:44 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 l	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.27	
Heating up time	0:44 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	



Model: WH-ADC1216H6E5C / WH-UD16HE5

Configure model		
Model name	WH-ADC1216H6E5C / WH-UD16HE5	
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Warmer Climate		
Reversibility Yes		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

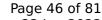
EN 14511-2			
Low temperature Medium temperature			
Heat output	16.00 kW	14.50 kW	
El input	3.74 kW	5.33 kW	
СОР	4.28	2.72	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990



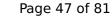


Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	130 %
Prated	12.00 kW	13.00 kW
SCOP	4.82	3.33
Tbiv	-10 °C	-3 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	9.00 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.40 kW	7.10 kW
COP Tj = +2°C	4.83	3.29
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.30 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.11	4.85
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	7.59	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	9.50 kW
COP Tj = Tbiv	2.77	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	8.70 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
СОР	2.60	
Heating up time	0:44 h:min	
Standby power input	32.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	225	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	88 %	
СОР	2.21	
Heating up time	0:48 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	225 I	



Model: WH-ADC0916H9E8 / WH-UD16HE8

Configure model		
Model name	WH-ADC0916H9E8 / WH-UD16HE8	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

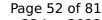
EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	14.50 kW
El input	3.74 kW	5.33 kW
СОР	4.28	2.72

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



EN 12102-1 Low temperature Medium temperature Sound power level indoor 46 dB(A) 46 dB(A) Sound power level outdoor 65 dB(A) 65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990





Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

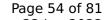
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	130 %
Prated	12.00 kW	13.00 kW
SCOP	4.82	3.33
Tbiv	-10 °C	-3 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	9.00 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.40 kW	7.10 kW
COP Tj = +2°C	4.83	3.29
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.30 kW	4.90 kW
COP Tj = +7°C	6.11	4.85
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	7.59	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	9.50 kW
COP Tj = Tbiv	2.77	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	8.70 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh

Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	107 %	
СОР	2.67	
Heating up time	0:44 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	



Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.27	
Heating up time	0:44 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	

Model: WH-ADC0916H9E8AN / WH-UD16HE8

Configure model	
Model name	WH-ADC0916H9E8AN / WH-UD16HE8
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data		
Power supply	3x400V 50Hz	

Heating

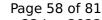
EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	14.50 kW
El input	3.74 kW	5.33 kW
СОР	4.28	2.72

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



EN 12102-1 Low temperature Medium temperature Sound power level indoor 46 dB(A) 46 dB(A) Sound power level outdoor 65 dB(A) 65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990



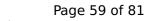


Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	130 %
Prated	12.00 kW	13.00 kW
SCOP	4.82	3.33
Tbiv	-10 °C	-3 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	9.00 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.40 kW	7.10 kW
COP Tj = +2°C	4.83	3.29
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.30 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.11	4.85
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	7.59	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	9.50 kW
COP Tj = Tbiv	2.77	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	8.70 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh

Domestic Hot Water (DHW)

EN 16147	
Declared load profile	L
Efficiency ηDHW	107 %
СОР	2.67
Heating up time	0:44 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	253 l



Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	91 %
СОР	2.27
Heating up time	0:44 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	253 I



Model: WH-SDC12H6E5 / WH-UD12HE5

Configure model	
Model name	WH-SDC12H6E5 / WH-UD12HE5
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data		
Power supply 1x230V 50Hz		

Heating

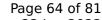
EN 14511-2		
Low temperature Medium temperature		
Heat output	12.00 kW	12.00 kW
El input	2.53 kW	4.10 kW
СОР	4.74	2.93

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990





Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





This information was gener	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
$COPTj = -7^{\circ}C$	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.20 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW
	I	1



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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4286 kWh	4840 kWh



Model: WH-SDC12H9E8 / WH-UD12HE8

Configure model		
Model name	WH-SDC12H9E8 / WH-UD12HE8	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

Heating

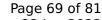
EN 14511-2		
Low temperature Medium temperature		
Heat output	12.00 kW	12.00 kW
El input	2.53 kW	4.10 kW
СОР	4.74	2.93

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	159 %
Prated	11.00 kW	9.00 kW
SCOP	6.21	4.05
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.20 kW	9.40 kW
COP Tj = +2°C	3.61	2.43
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.10 kW	6.10 kW
COP Tj = +7°C	5.53	3.29
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.00 kW	5.90 kW
COP Tj = 12°C	7.82	5.51
Cdh Tj = +12 °C	0.980	0.990



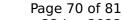


Pdh Tj = Tbiv	11.20 kW	9.40 kW
COP Tj = Tbiv	3.61	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.20 kW	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.61	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2368 kWh	2970 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825





This information was gener	Low temperature	Medium temperature
η_{s}	190 %	134 %
Prated	10.00 kW	8.00 kW
SCOP	4.82	3.42
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	7.20 kW
$COPTj = -7^{\circ}C$	3.18	2.27
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.20 kW	4.30 kW
COP Tj = +2°C	4.67	3.25
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = $+7^{\circ}$ C	5.20 kW	4.90 kW
$COPTj = +7^{\circ}C$	6.15	4.36
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.10 kW	5.80 kW
COP Tj = 12°C	7.88	6.12
Cdh Tj = +12 °C	0.980	0.990
Pdh Tj = Tbiv	10.00 kW	8.00 kW
COP Tj = Tbiv	2.68	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	8.00 kW
	I	1



COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	2.05
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4286 kWh	4840 kWh



Model: WH-SDC12H6E5 / WH-UD16HE5

Configure model		
Model name	WH-SDC12H6E5 / WH-UD16HE5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

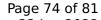
EN 14511-2			
Low temperature Medium temperature			
Heat output	16.00 kW	14.50 kW	
El input	3.74 kW	5.33 kW	
СОР	4.28	2.72	

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990





Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	46 dB(A)	46 dB(A)		
Sound power level outdoor	65 dB(A)	65 dB(A)		

EN 14825





This information was generated by the HP KEYMARK database on 22 Jun 2022 Low temperature **Medium temperature** 190 % 130 % η_s Prated 12.00 kW 13.00 kW **SCOP** 4.82 3.33 Tbiv -10 °C -3 °C TOL -10 °C -10 °C Pdh Tj = -7° C 11.10 kW 9.00 kW $COP Tj = -7^{\circ}C$ 2.90 2.07 Cdh Tj = -7 $^{\circ}$ C 1.000 1.000 Pdh Tj = $+2^{\circ}$ C 6.40 kW 7.10 kW $COPTj = +2^{\circ}C$ 4.83 3.29 Cdh Tj = +2 °C0.990 0.990 Pdh Tj = $+7^{\circ}$ C 5.30 kW 4.90 kW $COP Tj = +7^{\circ}C$ 6.11 4.85 0.990 Cdh Tj = +7 °C 0.990 Pdh Tj = 12° C 6.20 kW 5.80 kW 7.59 $COP Tj = 12^{\circ}C$ 6.11 Cdh Tj = +12 °C 0.990 0.990 Pdh Tj = Tbiv11.80 kW 9.50 kW 2.46 COP Tj = Tbiv2.77

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

11.80 kW

8.70 kW

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh



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

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh



Model: WH-SDC16H9E8 / WH-UD16HE8

Configure model		
Model name	WH-SDC16H9E8 / WH-UD16HE8	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Warmer Climate	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	16.00 kW	14.50 kW	
El input	3.74 kW	5.33 kW	
СОР	4.28	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	

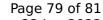


EN 12102-1

LN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	46 dB(A)	46 dB(A)		
Sound power level outdoor	65 dB(A)	65 dB(A)		

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	Low temperature	Medium temperature
η_{s}	245 %	169 %
Prated	13.00 kW	10.00 kW
SCOP	6.20	4.30
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	12.50 kW	10.70 kW
COP Tj = +2°C	3.34	2.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	8.40 kW	6.70 kW
COP Tj = +7°C	5.61	3.79
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	7.72	5.46
Cdh Tj = +12 °C	0.990	0.990



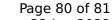


Pdh Tj = Tbiv	12.50 kW	10.70 kW
COP Tj = Tbiv	3.34	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.50 kW	10.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.34	2.41
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.00 kW
Annual energy consumption Qhe	2801 kWh	3104 kWh

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	46 dB(A)	46 dB(A)		
Sound power level outdoor	65 dB(A)	65 dB(A)		

EN 14825





	Low temperature	Medium temperature
η_{s}	190 %	130 %
Prated	12.00 kW	13.00 kW
SCOP	4.82	3.33
Tbiv	-10 °C	-3 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	9.00 kW
COP Tj = -7°C	2.90	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.40 kW	7.10 kW
COP Tj = +2°C	4.83	3.29
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.30 kW	4.90 kW
$COP Tj = +7^{\circ}C$	6.11	4.85
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	7.59	6.11
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	11.80 kW	9.50 kW
COP Tj = Tbiv	2.77	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.80 kW	8.70 kW



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

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	39 W	39 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	4.30 kW
Annual energy consumption Qhe	5146 kWh	8076 kWh