This information was generated by the HP KEYMARK database on 2 May 2023

Summary of	Aquarea AiO Split 5-9 kW STD (K Series)	Reg. No.	011-1W0605
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 AiO Split 5-9 kW STD (K Series)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.3 kg		
Certification Date	28.04.2023		
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 11 (as of 2022-09)		

Model: WH-ADC0309K3E5 / WH-UDZ05KE5

Configure model	
Model name	WH-ADC0309K3E5 / WH-UDZ05KE5
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	0.98 kW	1.65 kW
COP	5.10	3.03

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
El input	1.64 kW
Cooling capacity	5.00
EER	3.05

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.72
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.64
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	5.18
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.94
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	306 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	237 %	165 %
Prated	5.00 kW	4.00 kW
SCOP	6.00	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.05 kW
COP Tj = +2°C	3.05	3.00
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.27 kW	2.61 kW
COP Tj = +7°C	5.75	3.63
Cdh Tj = +7 °C	0.920	0.940
Pdh Tj = 12°C	3.45 kW	3.32 kW
COP Tj = 12°C	8.58	6.17
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.89	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.89	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1113 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**
η_s	160 %	115 %
Prated	6.00 kW	4.00 kW
SCOP	4.08	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.58 kW	2.40 kW
COP Tj = -7°C	3.73	2.53
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	2.47 kW	2.30 kW
COP Tj = +2°C	4.50	3.53
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	2.99 kW	2.85 kW
COP Tj = +7°C	7.25	5.61
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	3.49 kW	3.44 kW
COP Tj = 12°C	8.45	7.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.89 kW	3.26 kW
COP Tj = Tbiv	2.80	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.99 kW	3.97 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	0.03 kW
Annual energy consumption Qhe	3625 kWh	3338 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.94	3.32
COP Tj = -15°C (if TOL<-20°C)	2.80	1.77
Cdh Tj = -15 °C	0.980	0.980

Average Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.46 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.64 kW	2.65 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	2.95 kW	2.77 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	9.55	6.92
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.03 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2894 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:32 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:32 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5UK / WH-UDZ05KE5

Configure model	
Model name	WH-ADC0309K3E5UK / WH-UDZ05KE5
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	0.98 kW	1.65 kW
COP	5.10	3.03

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
El input	1.64 kW
Cooling capacity	5.00
EER	3.05

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.72
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.64
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	5.18
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.94
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	306 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	237 %	165 %
Prated	5.00 kW	4.00 kW
SCOP	6.00	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.05 kW
COP Tj = +2°C	3.05	3.00
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.27 kW	2.61 kW
COP Tj = +7°C	5.75	3.63
Cdh Tj = +7 °C	0.920	0.940
Pdh Tj = 12°C	3.45 kW	3.32 kW
COP Tj = 12°C	8.58	6.17
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.89	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.89	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1113 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**
η_s	160 %	115 %
Prated	6.00 kW	4.00 kW
SCOP	4.08	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.58 kW	2.40 kW
COP Tj = -7°C	3.73	2.53
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	2.47 kW	2.30 kW
COP Tj = +2°C	4.50	3.53
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	2.99 kW	2.85 kW
COP Tj = +7°C	7.25	5.61
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	3.49 kW	3.44 kW
COP Tj = 12°C	8.45	7.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.89 kW	3.26 kW
COP Tj = Tbiv	2.80	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.99 kW	3.97 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	0.03 kW
Annual energy consumption Qhe	3625 kWh	3338 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.94	3.32
COP Tj = -15°C (if TOL<-20°C)	2.80	1.77
Cdh Tj = -15 °C	0.980	0.980

Average Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.46 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.64 kW	2.65 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	2.95 kW	2.77 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	9.55	6.92
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.03 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2894 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:32 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:32 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5AN / WH-UDZ05KE5

Configure model	
Model name	WH-ADC0309K3E5AN / WH-UDZ05KE5
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	0.98 kW	1.65 kW
COP	5.10	3.03

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
El input	1.64 kW
Cooling capacity	5.00
EER	3.05

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.72
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.64
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	5.18
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.94
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	306 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	237 %	165 %
Prated	5.00 kW	4.00 kW
SCOP	6.00	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.05 kW
COP Tj = +2°C	3.05	3.00
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.27 kW	2.61 kW
COP Tj = +7°C	5.75	3.63
Cdh Tj = +7 °C	0.920	0.940
Pdh Tj = 12°C	3.45 kW	3.32 kW
COP Tj = 12°C	8.58	6.17
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.89	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.89	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1113 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**
η_s	160 %	115 %
Prated	6.00 kW	4.00 kW
SCOP	4.08	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.58 kW	2.40 kW
COP Tj = -7°C	3.73	2.53
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	2.47 kW	2.30 kW
COP Tj = +2°C	4.50	3.53
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	2.99 kW	2.85 kW
COP Tj = +7°C	7.25	5.61
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	3.49 kW	3.44 kW
COP Tj = 12°C	8.45	7.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.89 kW	3.26 kW
COP Tj = Tbiv	2.80	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.99 kW	3.97 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	0.03 kW
Annual energy consumption Qhe	3625 kWh	3338 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.94	3.32
COP Tj = -15°C (if TOL<-20°C)	2.80	1.77
Cdh Tj = -15 °C	0.980	0.980

Average Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.46 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.64 kW	2.65 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	2.95 kW	2.77 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	9.55	6.92
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.03 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2894 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:32 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:32 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5B / WH-UDZ05KE5

Configure model	
Model name	WH-ADC0309K3E5B / WH-UDZ05KE5
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	0.98 kW	1.65 kW
COP	5.10	3.03

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
El input	1.64 kW
Cooling capacity	5.00
EER	3.05

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.72
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.64
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	5.18
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.94
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	306 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	237 %	165 %
Prated	5.00 kW	4.00 kW
SCOP	6.00	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.05 kW
COP Tj = +2°C	3.05	3.00
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.27 kW	2.61 kW
COP Tj = +7°C	5.75	3.63
Cdh Tj = +7 °C	0.920	0.940
Pdh Tj = 12°C	3.45 kW	3.32 kW
COP Tj = 12°C	8.58	6.17
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.89	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.89	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1113 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**
η_s	160 %	115 %
Prated	6.00 kW	4.00 kW
SCOP	4.08	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.58 kW	2.40 kW
COP Tj = -7°C	3.73	2.53
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	2.47 kW	2.30 kW
COP Tj = +2°C	4.50	3.53
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	2.99 kW	2.85 kW
COP Tj = +7°C	7.25	5.61
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	3.49 kW	3.44 kW
COP Tj = 12°C	8.45	7.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.89 kW	3.26 kW
COP Tj = Tbiv	2.80	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.99 kW	3.97 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	0.03 kW
Annual energy consumption Qhe	3625 kWh	3338 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.94	3.32
COP Tj = -15°C (if TOL<-20°C)	2.80	1.77
Cdh Tj = -15 °C	0.980	0.980

Average Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.46 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.64 kW	2.65 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	2.95 kW	2.77 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	9.55	6.92
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.03 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2894 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:32 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:32 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K6E5 / WH-UDZ05KE5

Configure model	
Model name	WH-ADC0309K6E5 / WH-UDZ05KE5
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	0.98 kW	1.65 kW
COP	5.10	3.03

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
El input	1.64 kW
Cooling capacity	5.00
EER	3.05

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.72
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.64
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	5.18
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.94
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	306 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	237 %	165 %
Prated	5.00 kW	4.00 kW
SCOP	6.00	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.05 kW
COP Tj = +2°C	3.05	3.00
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.27 kW	2.61 kW
COP Tj = +7°C	5.75	3.63
Cdh Tj = +7 °C	0.920	0.940
Pdh Tj = 12°C	3.45 kW	3.32 kW
COP Tj = 12°C	8.58	6.17
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.89	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.89	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1113 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**
η_s	160 %	115 %
Prated	6.00 kW	4.00 kW
SCOP	4.08	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.58 kW	2.40 kW
COP Tj = -7°C	3.73	2.53
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	2.47 kW	2.30 kW
COP Tj = +2°C	4.50	3.53
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	2.99 kW	2.85 kW
COP Tj = +7°C	7.25	5.61
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	3.49 kW	3.44 kW
COP Tj = 12°C	8.45	7.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.89 kW	3.26 kW
COP Tj = Tbiv	2.80	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.99 kW	3.97 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	0.03 kW
Annual energy consumption Qhe	3625 kWh	3338 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.94	3.32
COP Tj = -15°C (if TOL<-20°C)	2.80	1.77
Cdh Tj = -15 °C	0.980	0.980

Average Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.46 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.64 kW	2.65 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	2.95 kW	2.77 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	9.55	6.92
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.03 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2894 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:32 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:32 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K6E5AN / WH-UDZ05KE5

Configure model	
Model name	WH-ADC0309K6E5AN / WH-UDZ05KE5
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	0.98 kW	1.65 kW
COP	5.10	3.03

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
El input	1.64 kW
Cooling capacity	5.00
EER	3.05

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.72
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.64
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	5.18
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.47
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.94
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	306 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	237 %	165 %
Prated	5.00 kW	4.00 kW
SCOP	6.00	4.20
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.12 kW	4.05 kW
COP Tj = +2°C	3.05	3.00
Cdh Tj = +2 °C	0.970	0.970
Pdh Tj = +7°C	3.27 kW	2.61 kW
COP Tj = +7°C	5.75	3.63
Cdh Tj = +7 °C	0.920	0.940
Pdh Tj = 12°C	3.45 kW	3.32 kW
COP Tj = 12°C	8.58	6.17
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.89	2.46
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.89	2.46
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1113 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**
η_s	160 %	115 %
Prated	6.00 kW	4.00 kW
SCOP	4.08	2.95
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.58 kW	2.40 kW
COP Tj = -7°C	3.73	2.53
Cdh Tj = -7 °C	0.950	0.950
Pdh Tj = +2°C	2.47 kW	2.30 kW
COP Tj = +2°C	4.50	3.53
Cdh Tj = +2 °C	0.920	0.930
Pdh Tj = +7°C	2.99 kW	2.85 kW
COP Tj = +7°C	7.25	5.61
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	3.49 kW	3.44 kW
COP Tj = 12°C	8.45	7.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.89 kW	3.26 kW
COP Tj = Tbiv	2.80	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.99 kW	3.97 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.49
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.01 kW	0.03 kW
Annual energy consumption Qhe	3625 kWh	3338 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.94	3.32
COP Tj = -15°C (if TOL<-20°C)	2.80	1.77
Cdh Tj = -15 °C	0.980	0.980

Average Climate

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

EN 14825

	Low temperature	**Medium temperature**
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.41 kW	4.46 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.64 kW	2.65 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	2.95 kW	2.77 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.46 kW	3.37 kW
COP Tj = 12°C	9.55	6.92
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.03 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2894 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:32 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:32 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:32 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5 / WH-UDZ07KE5

Configure model	
Model name	WH-ADC0309K3E5 / WH-UDZ07KE5
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	7.00 kW	7.00 kW
El input	1.44 kW	2.40 kW
COP	4.86	2.92

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
El input	2.21 kW
Cooling capacity	6.70
EER	3.03

EN 14825

	+7°C/+12°C
Pdesignc	6.00 kW
SEER	5.43
Pdc Tj = 35°C	6.00 kW
EER Tj = 35°C	3.13
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	4.42 kW
EER Tj = 30°C	4.35
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.84 kW
EER Tj = 25°C	6.52
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.26 kW
EER Tj = 20°C	8.73
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	386 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	193 %	142 %
Prated	7.00 kW	7.00 kW
SCOP	4.90	3.62
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.25 kW	6.23 kW
COP Tj = -7°C	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.78 kW	3.82 kW
COP Tj = +2°C	5.03	3.69
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = +7°C	2.95 kW	2.50 kW
COP Tj = +7°C	6.56	4.50
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.44 kW	3.10 kW
COP Tj = 12°C	8.47	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.00 kW	6.19 kW
COP Tj = Tbiv	2.60	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.18 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.82 kW
Annual energy consumption Qhe	2949 kWh	3999 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5UK / WH-UDZ07KE5

Configure model	
Model name	WH-ADC0309K3E5UK / WH-UDZ07KE5
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	7.00 kW	7.00 kW
El input	1.44 kW	2.40 kW
COP	4.86	2.92

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
El input	2.21 kW
Cooling capacity	6.70
EER	3.03

EN 14825

	+7°C/+12°C
Pdesignc	6.00 kW
SEER	5.43
Pdc Tj = 35°C	6.00 kW
EER Tj = 35°C	3.13
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	4.42 kW
EER Tj = 30°C	4.35
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.84 kW
EER Tj = 25°C	6.52
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.26 kW
EER Tj = 20°C	8.73
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	386 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	193 %	142 %
Prated	7.00 kW	7.00 kW
SCOP	4.90	3.62
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.25 kW	6.23 kW
COP Tj = -7°C	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.78 kW	3.82 kW
COP Tj = +2°C	5.03	3.69
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = +7°C	2.95 kW	2.50 kW
COP Tj = +7°C	6.56	4.50
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.44 kW	3.10 kW
COP Tj = 12°C	8.47	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.00 kW	6.19 kW
COP Tj = Tbiv	2.60	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.18 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.82 kW
Annual energy consumption Qhe	2949 kWh	3999 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5AN / WH-UDZ07KE5

Configure model	
Model name	WH-ADC0309K3E5AN / WH-UDZ07KE5
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	7.00 kW	7.00 kW
El input	1.44 kW	2.40 kW
COP	4.86	2.92

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
El input	2.21 kW
Cooling capacity	6.70
EER	3.03

EN 14825

	+7°C/+12°C
Pdesignc	6.00 kW
SEER	5.43
Pdc Tj = 35°C	6.00 kW
EER Tj = 35°C	3.13
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	4.42 kW
EER Tj = 30°C	4.35
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.84 kW
EER Tj = 25°C	6.52
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.26 kW
EER Tj = 20°C	8.73
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	386 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	193 %	142 %
Prated	7.00 kW	7.00 kW
SCOP	4.90	3.62
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.25 kW	6.23 kW
COP Tj = -7°C	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.78 kW	3.82 kW
COP Tj = +2°C	5.03	3.69
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = +7°C	2.95 kW	2.50 kW
COP Tj = +7°C	6.56	4.50
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.44 kW	3.10 kW
COP Tj = 12°C	8.47	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.00 kW	6.19 kW
COP Tj = Tbiv	2.60	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.18 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.82 kW
Annual energy consumption Qhe	2949 kWh	3999 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5B / WH-UDZ07KE5

Configure model	
Model name	WH-ADC0309K3E5B / WH-UDZ07KE5
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	7.00 kW	7.00 kW
El input	1.44 kW	2.40 kW
COP	4.86	2.92

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
El input	2.21 kW
Cooling capacity	6.70
EER	3.03

EN 14825

	+7°C/+12°C
Pdesignc	6.00 kW
SEER	5.43
Pdc Tj = 35°C	6.00 kW
EER Tj = 35°C	3.13
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	4.42 kW
EER Tj = 30°C	4.35
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.84 kW
EER Tj = 25°C	6.52
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.26 kW
EER Tj = 20°C	8.73
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	386 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	193 %	142 %
Prated	7.00 kW	7.00 kW
SCOP	4.90	3.62
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.25 kW	6.23 kW
COP Tj = -7°C	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.78 kW	3.82 kW
COP Tj = +2°C	5.03	3.69
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = +7°C	2.95 kW	2.50 kW
COP Tj = +7°C	6.56	4.50
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.44 kW	3.10 kW
COP Tj = 12°C	8.47	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.00 kW	6.19 kW
COP Tj = Tbiv	2.60	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.18 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.82 kW
Annual energy consumption Qhe	2949 kWh	3999 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K6E5 / WH-UDZ07KE5

Configure model	
Model name	WH-ADC0309K6E5 / WH-UDZ07KE5
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	7.00 kW	7.00 kW
El input	1.44 kW	2.40 kW
COP	4.86	2.92

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
El input	2.21 kW
Cooling capacity	6.70
EER	3.03

EN 14825

	+7°C/+12°C
Pdesignc	6.00 kW
SEER	5.43
Pdc Tj = 35°C	6.00 kW
EER Tj = 35°C	3.13
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	4.42 kW
EER Tj = 30°C	4.35
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.84 kW
EER Tj = 25°C	6.52
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.26 kW
EER Tj = 20°C	8.73
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	386 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	193 %	142 %
Prated	7.00 kW	7.00 kW
SCOP	4.90	3.62
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.25 kW	6.23 kW
COP Tj = -7°C	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.78 kW	3.82 kW
COP Tj = +2°C	5.03	3.69
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = +7°C	2.95 kW	2.50 kW
COP Tj = +7°C	6.56	4.50
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.44 kW	3.10 kW
COP Tj = 12°C	8.47	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.00 kW	6.19 kW
COP Tj = Tbiv	2.60	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.18 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.82 kW
Annual energy consumption Qhe	2949 kWh	3999 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K6E5AN / WH-UDZ07KE5

Configure model	
Model name	WH-ADC0309K6E5AN / WH-UDZ07KE5
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	7.00 kW	7.00 kW
El input	1.44 kW	2.40 kW
COP	4.86	2.92

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
El input	2.21 kW
Cooling capacity	6.70
EER	3.03

EN 14825

	+7°C/+12°C
Pdesignc	6.00 kW
SEER	5.43
Pdc Tj = 35°C	6.00 kW
EER Tj = 35°C	3.13
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	4.42 kW
EER Tj = 30°C	4.35
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	2.84 kW
EER Tj = 25°C	6.52
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.26 kW
EER Tj = 20°C	8.73
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	386 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	193 %	142 %
Prated	7.00 kW	7.00 kW
SCOP	4.90	3.62
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.25 kW	6.23 kW
COP Tj = -7°C	2.80	2.18
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	3.78 kW	3.82 kW
COP Tj = +2°C	5.03	3.69
Cdh Tj = +2 °C	0.940	0.960
Pdh Tj = +7°C	2.95 kW	2.50 kW
COP Tj = +7°C	6.56	4.50
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.44 kW	3.10 kW
COP Tj = 12°C	8.47	6.55
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.00 kW	6.19 kW
COP Tj = Tbiv	2.60	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	6.18 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.60	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.82 kW
Annual energy consumption Qhe	2949 kWh	3999 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5 / WH-UDZ09KE5

Configure model	
Model name	WH-ADC0309K3E5 / WH-UDZ09KE5
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	3.04 kW
COP	4.55	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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.01 kW
Cooling capacity	8.20
EER	2.72

EN 14825

	+7°C/+12°C
Pdesignc	7.00 kW
SEER	5.27
Pdc Tj = 35°C	7.00 kW
EER Tj = 35°C	3.09
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	5.16 kW
EER Tj = 30°C	4.16
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	6.08
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.47 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	465 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	175 %	133 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	7.08 kW
COP Tj = -7°C	2.81	2.34
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.26 kW	4.30 kW
COP Tj = +2°C	3.89	3.16
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.77 kW	2.60 kW
COP Tj = +7°C	7.16	4.54
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.04 kW	3.15 kW
COP Tj = 12°C	8.74	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.78	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.08 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.92 kW
Annual energy consumption Qhe	3720 kWh	4851 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5UK / WH-UDZ09KE5

Configure model	
Model name	WH-ADC0309K3E5UK / WH-UDZ09KE5
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	3.04 kW
COP	4.55	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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.01 kW
Cooling capacity	8.20
EER	2.72

EN 14825

	+7°C/+12°C
Pdesignc	7.00 kW
SEER	5.27
Pdc Tj = 35°C	7.00 kW
EER Tj = 35°C	3.09
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	5.16 kW
EER Tj = 30°C	4.16
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	6.08
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.47 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	465 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	175 %	133 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	7.08 kW
COP Tj = -7°C	2.81	2.34
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.26 kW	4.30 kW
COP Tj = +2°C	3.89	3.16
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.77 kW	2.60 kW
COP Tj = +7°C	7.16	4.54
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.04 kW	3.15 kW
COP Tj = 12°C	8.74	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.78	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.08 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.92 kW
Annual energy consumption Qhe	3720 kWh	4851 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5AN / WH-UDZ09KE5

Configure model	
Model name	WH-ADC0309K3E5AN / WH-UDZ09KE5
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	3.04 kW
COP	4.55	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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.01 kW
Cooling capacity	8.20
EER	2.72

EN 14825

	+7°C/+12°C
Pdesignc	7.00 kW
SEER	5.27
Pdc Tj = 35°C	7.00 kW
EER Tj = 35°C	3.09
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	5.16 kW
EER Tj = 30°C	4.16
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	6.08
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.47 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	465 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	175 %	133 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	7.08 kW
COP Tj = -7°C	2.81	2.34
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.26 kW	4.30 kW
COP Tj = +2°C	3.89	3.16
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.77 kW	2.60 kW
COP Tj = +7°C	7.16	4.54
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.04 kW	3.15 kW
COP Tj = 12°C	8.74	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.78	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.08 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.92 kW
Annual energy consumption Qhe	3720 kWh	4851 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K3E5B / WH-UDZ09KE5

Configure model	
Model name	WH-ADC0309K3E5B / WH-UDZ09KE5
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	3.04 kW
COP	4.55	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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.01 kW
Cooling capacity	8.20
EER	2.72

EN 14825

	+7°C/+12°C
Pdesignc	7.00 kW
SEER	5.27
Pdc Tj = 35°C	7.00 kW
EER Tj = 35°C	3.09
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	5.16 kW
EER Tj = 30°C	4.16
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	6.08
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.47 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	465 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	175 %	133 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	7.08 kW
COP Tj = -7°C	2.81	2.34
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.26 kW	4.30 kW
COP Tj = +2°C	3.89	3.16
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.77 kW	2.60 kW
COP Tj = +7°C	7.16	4.54
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.04 kW	3.15 kW
COP Tj = 12°C	8.74	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.78	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.08 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.92 kW
Annual energy consumption Qhe	3720 kWh	4851 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K6E5 / WH-UDZ09KE5

Configure model	
Model name	WH-ADC0309K6E5 / WH-UDZ09KE5
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	3.04 kW
COP	4.55	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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.01 kW
Cooling capacity	8.20
EER	2.72

EN 14825

	+7°C/+12°C
Pdesignc	7.00 kW
SEER	5.27
Pdc Tj = 35°C	7.00 kW
EER Tj = 35°C	3.09
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	5.16 kW
EER Tj = 30°C	4.16
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	6.08
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.47 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	465 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	175 %	133 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	7.08 kW
COP Tj = -7°C	2.81	2.34
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.26 kW	4.30 kW
COP Tj = +2°C	3.89	3.16
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.77 kW	2.60 kW
COP Tj = +7°C	7.16	4.54
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.04 kW	3.15 kW
COP Tj = 12°C	8.74	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.78	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.08 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.92 kW
Annual energy consumption Qhe	3720 kWh	4851 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Model: WH-ADC0309K6E5AN / WH-UDZ09KE5

Configure model	
Model name	WH-ADC0309K6E5AN / WH-UDZ09KE5
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	3.04 kW
COP	4.55	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

Cooling

EN 14511-2

	+7°C/+12°C
El input	3.01 kW
Cooling capacity	8.20
EER	2.72

EN 14825

	+7°C/+12°C
Pdesignc	7.00 kW
SEER	5.27
Pdc Tj = 35°C	7.00 kW
EER Tj = 35°C	3.09
Cdc Tj = 35 °C	1.000
Pdc Tj = 30°C	5.16 kW
EER Tj = 30°C	4.16
Cdc Tj = 30 °C	1.000
Pdc Tj = 25°C	3.32 kW
EER Tj = 25°C	6.08
Cdc Tj = 25 °C	1.000
Pdc Tj = 20°C	1.47 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	1.000
Poff	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	465 kWh

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	227 %	160 %
Prated	7.00 kW	6.00 kW
SCOP	5.75	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.07 kW	6.10 kW
COP Tj = +2°C	2.80	2.14
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	4.51 kW	3.80 kW
COP Tj = +7°C	5.37	3.51
Cdh Tj = +7 °C	0.950	0.960
Pdh Tj = 12°C	3.45 kW	3.25 kW
COP Tj = 12°C	7.77	5.80
Cdh Tj = +12 °C	0.900	0.920

Pdh Tj = Tbiv	7.00 kW	6.00 kW
COP Tj = Tbiv	2.80	2.14
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.07 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1627 kWh	1971 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	164 %	116 %
Prated	7.00 kW	6.00 kW
SCOP	4.18	2.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.17 kW	3.64 kW
COP Tj = -7°C	3.41	2.41
Cdh Tj = -7 °C	0.960	0.970
Pdh Tj = +2°C	2.54 kW	2.25 kW
COP Tj = +2°C	5.39	3.75
Cdh Tj = +2 °C	0.900	0.920
Pdh Tj = +7°C	2.96 kW	2.81 kW
COP Tj = +7°C	6.69	5.01
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.40 kW	3.33 kW
COP Tj = 12°C	8.24	6.67
Cdh Tj = +12 °C	0.900	0.910
Pdh Tj = Tbiv	5.71 kW	4.89 kW
COP Tj = Tbiv	2.44	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.72 kW	3.74 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.82	1.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.28 kW	2.26 kW
Annual energy consumption Qhe	4132 kWh	4967 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.72	4.86
COP Tj = -15°C (if TOL<-20°C)	2.44	1.72
Cdh Tj = -15 °C	0.980	0.980

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	**Medium temperature**
η_s	175 %	133 %
Prated	8.00 kW	8.00 kW
SCOP	4.44	3.41
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.05 kW	7.08 kW
COP Tj = -7°C	2.81	2.34
Cdh Tj = -7 °C	0.980	0.980
Pdh Tj = +2°C	4.26 kW	4.30 kW
COP Tj = +2°C	3.89	3.16
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.77 kW	2.60 kW
COP Tj = +7°C	7.16	4.54
Cdh Tj = +7 °C	0.900	0.920
Pdh Tj = 12°C	3.04 kW	3.15 kW
COP Tj = 12°C	8.74	6.61
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.00 kW	7.08 kW
COP Tj = Tbiv	2.78	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.08 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.03
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	12 W	12 W
PTO	46 W	46 W
PSB	10 W	10 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.92 kW
Annual energy consumption Qhe	3720 kWh	4851 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	161 %
COP	4.03
Heating up time	1:06 h:min
Standby power input	28.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
COP	2.82
Heating up time	1:06 h:min
Standby power input	36.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	140 %
COP	3.51
Heating up time	1:06 h:min
Standby power input	32.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	245 l