

## Subtype Aquarea Split 9-12 kW T-CAP (K Series)

Certificate Holder	Panasonic Marketing Europe GmbH
Address	Hagenauer Strasse 43, Wiesbaden
ZIP	65203
City	Wiesbaden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Aquarea Split 9-12 kW T-CAP (K Series)
Registration number	011-1W0606
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	28.04.2023
Testing basis	HP KEYMARK certification scheme rules V12

## Model WH-ADC0912K6E5 / WH-UXZ09KE5

Model name	WH-ADC0912K6E5 / WH-UXZ09KE5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed
Starting and operating test	passed

#### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07

#### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	

#### EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
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# EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	8.00 kW	
SEER	4.12	
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.00 kW	
EER T <sub>j</sub> = 35°C	3.19	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.89 kW	
EER T <sub>j</sub> = 30°C	3.91	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.79 kW	
EER T <sub>j</sub> = 25°C	4.25	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.68 kW	
EER T <sub>j</sub> = 20°C	5.13	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	679 kWh	

## Model WH-ADC0912K6E5UK / WH-UXZ09KE5

Model name	WH-ADC0912K6E5UK / WH-UXZ09KE5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Qhe	1859 kWh	2772 kWh
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# EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.00 kW	
SEER	4.12	
Pdc Tj = 35°C	8.00 kW	
EER Tj = 35°C	3.19	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	5.89 kW	
EER Tj = 30°C	3.91	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.79 kW	
EER Tj = 25°C	4.25	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	1.68 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	679 kWh	

## Model WH-ADC0912K6E5AN / WH-UXZ09KE5

Model name	WH-ADC0912K6E5AN / WH-UXZ09KE5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
ηs	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
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#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	8.00 kW	
SEER	4.12	
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.00 kW	
EER T <sub>j</sub> = 35°C	3.19	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.89 kW	
EER T <sub>j</sub> = 30°C	3.91	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.79 kW	
EER T <sub>j</sub> = 25°C	4.25	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.68 kW	
EER T <sub>j</sub> = 20°C	5.13	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	679 kWh	

## Model WH-ADC0912K6E5 / WH-UXZ12KE5

Model name	WH-ADC0912K6E5 / WH-UXZ12KE5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Qhe	1859 kWh	2772 kWh
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#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.00 kW	
SEER	4.44	
Pdc Tj = 35°C	10.00 kW	
EER Tj = 35°C	2.87	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	7.37 kW	
EER Tj = 30°C	3.96	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	4.74 kW	
EER Tj = 25°C	4.86	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	2.11 kW	
EER Tj = 20°C	5.68	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	789 kWh	

## Model WH-ADC0912K6E5UK / WH-UXZ12KE5

Model name	WH-ADC0912K6E5UK / WH-UXZ12KE5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15°C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2°C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7°C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12°C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12°C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
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#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.00 kW	
SEER	4.44	
P <sub>dc</sub> T <sub>j</sub> = 35°C	10.00 kW	
EER T <sub>j</sub> = 35°C	2.87	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	7.37 kW	
EER T <sub>j</sub> = 30°C	3.96	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.74 kW	
EER T <sub>j</sub> = 25°C	4.86	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.11 kW	
EER T <sub>j</sub> = 20°C	5.68	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	789 kWh	

## Model WH-ADC0912K6E5AN / WH-UXZ12KE5

Model name	WH-ADC0912K6E5AN / WH-UXZ12KE5
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
EN 14825   Cooling		
	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.00 kW	
SEER	4.44	
P <sub>dc</sub> T <sub>j</sub> = 35°C	10.00 kW	
EER T <sub>j</sub> = 35°C	2.87	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	7.37 kW	
EER T <sub>j</sub> = 30°C	3.96	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.74 kW	
EER T <sub>j</sub> = 25°C	4.86	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.11 kW	
EER T <sub>j</sub> = 20°C	5.68	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	789 kWh	

## Model WH-ADC0912K9E8 / WH-UXZ09KE8

Model name	WH-ADC0912K9E8 / WH-UXZ09KE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
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#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	8.00 kW	
SEER	4.12	
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.00 kW	
EER T <sub>j</sub> = 35°C	3.19	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.89 kW	
EER T <sub>j</sub> = 30°C	3.91	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.79 kW	
EER T <sub>j</sub> = 25°C	4.25	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.68 kW	
EER T <sub>j</sub> = 20°C	5.13	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	679 kWh	

## Model WH-ADC0912K9E8AN / WH-UXZ09KE8

Model name	WH-ADC0912K9E8AN / WH-UXZ09KE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
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#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	8.00 kW	
SEER	4.12	
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.00 kW	
EER T <sub>j</sub> = 35°C	3.19	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.89 kW	
EER T <sub>j</sub> = 30°C	3.91	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.79 kW	
EER T <sub>j</sub> = 25°C	4.25	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	1.68 kW	
EER T <sub>j</sub> = 20°C	5.13	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	679 kWh	

## Model WH-ADC0912K9E8 / WH-UXZ12KE8

Model name	WH-ADC0912K9E8 / WH-UXZ12KE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed
Starting and operating test	passed

#### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04

#### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	

#### EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	180 %	135 %
Prated	12.00 kW	12.00 kW
SCOP	4.58	3.46
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.62 kW	10.64 kW
COP Tj = -7°C	2.51	2.23
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.46 kW	6.49 kW
COP Tj = +2°C	4.53	3.24
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	5.50 kW	5.22 kW
COP Tj = +7°C	6.18	4.65
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.40 kW	6.17 kW
COP Tj = 12°C	7.93	6.07
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	12.00 kW	12.00 kW
COP Tj = Tbiv	2.71	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.93

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5416 kWh	7167 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
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#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.00 kW	
SEER	4.44	
P <sub>dc</sub> T <sub>j</sub> = 35°C	10.00 kW	
EER T <sub>j</sub> = 35°C	2.87	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	7.37 kW	
EER T <sub>j</sub> = 30°C	3.96	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.74 kW	
EER T <sub>j</sub> = 25°C	4.86	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.11 kW	
EER T <sub>j</sub> = 20°C	5.68	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	789 kWh	

## Model WH-ADC0912K9E8AN / WH-UXZ12KE8

Model name	WH-ADC0912K9E8AN / WH-UXZ12KE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

### General data

Power supply	3x400V 50Hz
Off-peak product	n/a

### Outdoor Air/Water

#### EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	114 %
COP	2.86
Heating up time	0:50 h:min
Standby power input	34.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

#### EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	90 %
COP	2.26
Heating up time	0:50 h:min
Standby power input	44.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

#### EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	134 %
COP	3.35
Heating up time	0:50 h:min
Standby power input	31.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	244 l

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure passed

Defrost test	passed	
Starting and operating test	passed	
EN 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	
EN 12102-1   Average Climate		
	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   Average Climate		
	Low temperature	Medium temperature
$\eta_s$	180 %	135 %
Prated	12.00 kW	12.00 kW
SCOP	4.58	3.46
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.62 kW	10.64 kW
COP Tj = -7°C	2.51	2.23
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.46 kW	6.49 kW
COP Tj = +2°C	4.53	3.24
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	5.50 kW	5.22 kW
COP Tj = +7°C	6.18	4.65
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.40 kW	6.17 kW
COP Tj = 12°C	7.93	6.07
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	12.00 kW	12.00 kW
COP Tj = Tbiv	2.71	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.93

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5416 kWh	7167 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW
COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Q <sub>he</sub>	6289 kWh	8327 kWh
P <sub>dh</sub> T <sub>j</sub> = -15 °C (if TOL	8.97	8.97
COP T <sub>j</sub> = -15 °C (if TOL	2.70	2.09
C <sub>dh</sub> T <sub>j</sub> = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
η <sub>s</sub>	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
T <sub>biv</sub>	2 °C	2 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2 °C	9.00 kW	9.00 kW
COP T <sub>j</sub> = +2 °C	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +7 °C	5.79 kW	5.91 kW
COP T <sub>j</sub> = +7 °C	5.88	3.75
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12 °C	6.28 kW	5.97 kW
COP T <sub>j</sub> = 12 °C	7.85	5.50
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.67	2.40
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.67	2.40
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	0.900	0.900
WTOL	55 °C	55 °C
P <sub>off</sub>	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q <sub>he</sub>	1859 kWh	2772 kWh
EN 14825   Cooling		
	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	10.00 kW	
SEER	4.44	
P <sub>dc</sub> T <sub>j</sub> = 35°C	10.00 kW	
EER T <sub>j</sub> = 35°C	2.87	
C <sub>dc</sub> T <sub>j</sub> = 35 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 30°C	7.37 kW	
EER T <sub>j</sub> = 30°C	3.96	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.74 kW	
EER T <sub>j</sub> = 25°C	4.86	
C <sub>dc</sub> T <sub>j</sub> = 25 °C	1.000	
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.11 kW	
EER T <sub>j</sub> = 20°C	5.68	
C <sub>dc</sub> T <sub>j</sub> = 20 °C	1.000	
P <sub>off</sub>	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Q <sub>ce</sub>	789 kWh	

## Model WH-SXC09K3E5 / WH-UXZ09KE5

Model name	WH-SXC09K3E5 / WH-UXZ09KE5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
ηs	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW

COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Qhe	6289 kWh	8327 kWh
Pdh Tj = -15°C (if TOL	8.97	8.97
COP Tj = -15°C (if TOL	2.70	2.09
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.00 kW	9.00 kW
COP Tj = +2°C	3.67	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.79 kW	5.91 kW
COP Tj = +7°C	5.88	3.75
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	6.28 kW	5.97 kW
COP Tj = 12°C	7.85	5.50
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	3.67	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1859 kWh	2772 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.00 kW	
SEER	4.12	
Pdc Tj = 35°C	8.00 kW	
EER Tj = 35°C	3.19	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	5.89 kW	
EER Tj = 30°C	3.91	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.79 kW	
EER Tj = 25°C	4.25	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	1.68 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	679 kWh	

## Model WH-SXC09K6E5 / WH-UXZ09KE5

Model name	WH-SXC09K6E5 / WH-UXZ09KE5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW

COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Qhe	6289 kWh	8327 kWh
Pdh Tj = -15°C (if TOL	8.97	8.97
COP Tj = -15°C (if TOL	2.70	2.09
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.00 kW	9.00 kW
COP Tj = +2°C	3.67	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.79 kW	5.91 kW
COP Tj = +7°C	5.88	3.75
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	6.28 kW	5.97 kW
COP Tj = 12°C	7.85	5.50
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	3.67	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1859 kWh	2772 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.00 kW	
SEER	4.12	
Pdc Tj = 35°C	8.00 kW	
EER Tj = 35°C	3.19	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	5.89 kW	
EER Tj = 30°C	3.91	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.79 kW	
EER Tj = 25°C	4.25	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	1.68 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	679 kWh	

## Model WH-SXC09K3E8 / WH-UXZ09KE8

Model name	WH-SXC09K3E8 / WH-UXZ09KE8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW

COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Qhe	6289 kWh	8327 kWh
Pdh Tj = -15°C (if TOL	8.97	8.97
COP Tj = -15°C (if TOL	2.70	2.09
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.00 kW	9.00 kW
COP Tj = +2°C	3.67	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.79 kW	5.91 kW
COP Tj = +7°C	5.88	3.75
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	6.28 kW	5.97 kW
COP Tj = 12°C	7.85	5.50
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	3.67	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1859 kWh	2772 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.00 kW	
SEER	4.12	
Pdc Tj = 35°C	8.00 kW	
EER Tj = 35°C	3.19	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	5.89 kW	
EER Tj = 30°C	3.91	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.79 kW	
EER Tj = 25°C	4.25	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	1.68 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	679 kWh	

## Model WH-SXC09K9E8 / WH-UXZ09KE8

Model name	WH-SXC09K9E8 / WH-UXZ09KE8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.79 kW	2.93 kW
COP	5.03	3.07

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	8.80	
EER	3.11	

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW

COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Qhe	6289 kWh	8327 kWh
Pdh Tj = -15°C (if TOL	8.97	8.97
COP Tj = -15°C (if TOL	2.70	2.09
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.00 kW	9.00 kW
COP Tj = +2°C	3.67	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.79 kW	5.91 kW
COP Tj = +7°C	5.88	3.75
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	6.28 kW	5.97 kW
COP Tj = 12°C	7.85	5.50
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	3.67	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1859 kWh	2772 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.00 kW	
SEER	4.12	
Pdc Tj = 35°C	8.00 kW	
EER Tj = 35°C	3.19	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	5.89 kW	
EER Tj = 30°C	3.91	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.79 kW	
EER Tj = 25°C	4.25	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	1.68 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	679 kWh	

## Model WH-SXC12K6E5 / WH-UXZ12KE5

Model name	WH-SXC12K6E5 / WH-UXZ12KE5
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.96 kW	7.96 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.85 kW	4.85 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.37 kW	5.09 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.33 kW	6.09 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3747 kWh	5208 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW

COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Qhe	6289 kWh	8327 kWh
Pdh Tj = -15°C (if TOL	8.97	8.97
COP Tj = -15°C (if TOL	2.70	2.09
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.00 kW	9.00 kW
COP Tj = +2°C	3.67	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.79 kW	5.91 kW
COP Tj = +7°C	5.88	3.75
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	6.28 kW	5.97 kW
COP Tj = 12°C	7.85	5.50
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	3.67	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1859 kWh	2772 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.00 kW	
SEER	4.44	
Pdc Tj = 35°C	10.00 kW	
EER Tj = 35°C	2.87	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	7.37 kW	
EER Tj = 30°C	3.96	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	4.74 kW	
EER Tj = 25°C	4.86	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	2.11 kW	
EER Tj = 20°C	5.68	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	789 kWh	

## Model WH-SXC12K9E8 / WH-UXZ12KE8

Model name	WH-SXC12K9E8 / WH-UXZ12KE8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	12.10 kW	12.10 kW
El input	2.50 kW	3.98 kW
COP	4.84	3.04

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	3.99 kW	
Cooling capacity	10.70	
EER	2.68	

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	180 %	135 %
Prated	12.00 kW	12.00 kW
SCOP	4.58	3.46
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.62 kW	10.64 kW
COP Tj = -7°C	2.51	2.23
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.46 kW	6.49 kW
COP Tj = +2°C	4.53	3.24
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	5.50 kW	5.22 kW
COP Tj = +7°C	6.18	4.65
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.40 kW	6.17 kW
COP Tj = 12°C	7.93	6.07
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	12.00 kW	12.00 kW
COP Tj = Tbiv	2.71	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	12.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.93
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5416 kWh	7167 kWh

#### EN 12102-1 | Colder Climate

	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 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	169 %	127 %
Prated	11.00 kW	11.00 kW
SCOP	4.31	3.26
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.66 kW	6.66 kW
COP Tj = -7°C	3.37	2.64
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.75 kW	4.47 kW

COP Tj = +2°C	5.32	3.93
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.47 kW	5.25 kW
COP Tj = +7°C	6.69	5.04
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.32 kW	6.16 kW
COP Tj = 12°C	8.14	6.40
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	8.97 kW	8.97 kW
COP Tj = Tbiv	2.70	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	8.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.02 kW	3.00 kW
Annual energy consumption Qhe	6289 kWh	8327 kWh
Pdh Tj = -15°C (if TOL	8.97	8.97
COP Tj = -15°C (if TOL	2.70	2.09
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	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 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	256 %	171 %
Prated	9.00 kW	9.00 kW
SCOP	6.47	4.34
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.00 kW	9.00 kW
COP Tj = +2°C	3.67	2.40
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.79 kW	5.91 kW
COP Tj = +7°C	5.88	3.75
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	6.28 kW	5.97 kW
COP Tj = 12°C	7.85	5.50
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	3.67	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	1 W	1 W
PTO	10 W	10 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1859 kWh	2772 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	10.00 kW	
SEER	4.44	
Pdc Tj = 35°C	10.00 kW	
EER Tj = 35°C	2.87	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	7.37 kW	
EER Tj = 30°C	3.96	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	4.74 kW	
EER Tj = 25°C	4.86	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	2.11 kW	
EER Tj = 20°C	5.68	
Cdc Tj = 20 °C	1.000	
Poff	10 W	
PTO	0 W	
PSB	10 W	
PCK	0 W	
Annual energy consumption Qce	789 kWh	