

Podtyp Aquarea Hydro Split 9 kW STD (L Series)

Posiadacz certyfikatu	Panasonic Marketing Europe GmbH
Adres	Hagenauer Strasse 43, Wiesbaden
Kod pocztowy	65203
Miasto	Wiesbaden
Kraj	DE
Jednostka certyfikująca	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Nazwa podtypu	Aquarea Hydro Split 9 kW STD (L Series)
Numer rejestracyjny	011-1W0632
Typ pompy ciepła	Outdoor Air/Water
Czynnik chłodniczy	R290
Masa czynnika chłodniczego	1 kg
Data certyfikacji	22.05.2023
Podstawa testowania	European KEYMARK Scheme for Heat Pumps Rev. 11 (as of 2022-09)

Model WH-ADC0509L3E5 / WH-WDG09LE5

Nazwa modelu	WH-ADC0509L3E5 / WH-WDG09LE5
Zastosowanie	ogrzewanie + CWU + niskie temp.
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water
EN 16147 | Klimat umiarkowany

Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.61
Heating up time	1:04 h:min
Standby power input	33.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat chłodniejszy

Declared load profile	L
Efficiency η_{DHW}	112 %
COP	2.80
Heating up time	1:04 h:min
Standby power input	36.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat cieplejszy

Declared load profile	L
Efficiency η_{DHW}	160 %
COP	4.00
Heating up time	1:04 h:min
Standby power input	28.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono

Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW
COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Q _{he}	5142 kWh	5915 kWh
P _{dh} T _j = -15 °C (if TOL	7.30	6.50
COP T _j = -15 °C (if TOL	2.39	1.96
C _{dh} T _j = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η _s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2 °C	7.00 kW	7.00 kW
COP T _j = +2 °C	3.46	2.43
C _{dh} T _j = +2 °C	0.990	1.000
P _{dh} T _j = +7 °C	4.50 kW	4.50 kW
COP T _j = +7 °C	6.07	4.01
C _{dh} T _j = +7 °C	0.980	0.990
P _{dh} T _j = 12 °C	3.30 kW	3.10 kW
COP T _j = 12 °C	7.67	5.58
C _{dh} T _j = +12 °C	0.970	0.980
P _{dh} T _j = T _{biv}	7.00 kW	7.00 kW
COP T _j = T _{biv}	3.46	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.00 kW	7.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.46	2.43
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	1.000
WTOL	55 °C	55 °C
P _{off}	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q _{he}	1453 kWh	2080 kWh
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EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
P _{designc}	8.20 kW	9.00 kW
SEER	4.99	7.14
P _{dc Tj = 35°C}	8.20 kW	9.00 kW
EER T _j = 35°C	2.82	4.19
C _{dc Tj = 35 °C}	1.000	1.000
P _{dc Tj = 30°C}	6.04 kW	6.63 kW
EER T _j = 30°C	4.35	6.46
C _{dc Tj = 30 °C}	1.000	1.000
P _{dc Tj = 25°C}	3.88 kW	4.26 kW
EER T _j = 25°C	5.86	8.27
C _{dc Tj = 25 °C}	1.000	1.000
P _{dc Tj = 20°C}	2.78 kW	3.62 kW
EER T _j = 20°C	6.41	9.28
C _{dc Tj = 20 °C}	1.000	0.990
P _{off}	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	575 kWh	441 kWh

Model WH-ADC0509L3E5UK / WH-WDG09LE5

Nazwa modelu	WH-ADC0509L3E5UK / WH-WDG09LE5
Zastosowanie	ogrzewanie + CWU + niskie temp.
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water
EN 16147 | Klimat umiarkowany

Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.61
Heating up time	1:04 h:min
Standby power input	33.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat chłodniejszy

Declared load profile	L
Efficiency η_{DHW}	112 %
COP	2.80
Heating up time	1:04 h:min
Standby power input	36.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat cieplejszy

Declared load profile	L
Efficiency η_{DHW}	160 %
COP	4.00
Heating up time	1:04 h:min
Standby power input	28.0 W
Reference hot water temperature	52.9 °C
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EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono

Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW
COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Q _{he}	5142 kWh	5915 kWh
P _{dh} T _j = -15 °C (if TOL	7.30	6.50
COP T _j = -15 °C (if TOL	2.39	1.96
C _{dh} T _j = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η _s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2 °C	7.00 kW	7.00 kW
COP T _j = +2 °C	3.46	2.43
C _{dh} T _j = +2 °C	0.990	1.000
P _{dh} T _j = +7 °C	4.50 kW	4.50 kW
COP T _j = +7 °C	6.07	4.01
C _{dh} T _j = +7 °C	0.980	0.990
P _{dh} T _j = 12 °C	3.30 kW	3.10 kW
COP T _j = 12 °C	7.67	5.58
C _{dh} T _j = +12 °C	0.970	0.980
P _{dh} T _j = T _{biv}	7.00 kW	7.00 kW
COP T _j = T _{biv}	3.46	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.00 kW	7.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.46	2.43
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	1.000
WTOL	55 °C	55 °C
P _{off}	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q _{he}	1453 kWh	2080 kWh
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EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
P _{designc}	8.20 kW	9.00 kW
SEER	4.99	7.14
P _{dc Tj = 35°C}	8.20 kW	9.00 kW
EER T _j = 35°C	2.82	4.19
C _{dc Tj = 35 °C}	1.000	1.000
P _{dc Tj = 30°C}	6.04 kW	6.63 kW
EER T _j = 30°C	4.35	6.46
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P _{dc Tj = 25°C}	3.88 kW	4.26 kW
EER T _j = 25°C	5.86	8.27
C _{dc Tj = 25 °C}	1.000	1.000
P _{dc Tj = 20°C}	2.78 kW	3.62 kW
EER T _j = 20°C	6.41	9.28
C _{dc Tj = 20 °C}	1.000	0.990
P _{off}	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	575 kWh	441 kWh

Model WH-ADC0509L3E5AN / WH-WDG09LE5

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Jednostki	wewnętrzna, zewnętrzna
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Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water

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Efficiency η_{DHW}	112 %
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Heating up time	1:04 h:min
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Declared load profile	L
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COP	4.00
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EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono

Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

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El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
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	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
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	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

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	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

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	Niskie temperatury	Średnie temperatury
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SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW
COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Q _{he}	5142 kWh	5915 kWh
P _{dh} T _j = -15 °C (if TOL	7.30	6.50
COP T _j = -15 °C (if TOL	2.39	1.96
C _{dh} T _j = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η _s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2 °C	7.00 kW	7.00 kW
COP T _j = +2 °C	3.46	2.43
C _{dh} T _j = +2 °C	0.990	1.000
P _{dh} T _j = +7 °C	4.50 kW	4.50 kW
COP T _j = +7 °C	6.07	4.01
C _{dh} T _j = +7 °C	0.980	0.990
P _{dh} T _j = 12 °C	3.30 kW	3.10 kW
COP T _j = 12 °C	7.67	5.58
C _{dh} T _j = +12 °C	0.970	0.980
P _{dh} T _j = T _{biv}	7.00 kW	7.00 kW
COP T _j = T _{biv}	3.46	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.00 kW	7.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.46	2.43
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	1.000
WTOL	55 °C	55 °C
P _{off}	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he} 1453 kWh 2080 kWh

EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
P _{designc}	8.20 kW	9.00 kW
SEER	4.99	7.14
P _{dc Tj = 35°C}	8.20 kW	9.00 kW
EER Tj = 35°C	2.82	4.19
C _{dc Tj = 35 °C}	1.000	1.000
P _{dc Tj = 30°C}	6.04 kW	6.63 kW
EER Tj = 30°C	4.35	6.46
C _{dc Tj = 30 °C}	1.000	1.000
P _{dc Tj = 25°C}	3.88 kW	4.26 kW
EER Tj = 25°C	5.86	8.27
C _{dc Tj = 25 °C}	1.000	1.000
P _{dc Tj = 20°C}	2.78 kW	3.62 kW
EER Tj = 20°C	6.41	9.28
C _{dc Tj = 20 °C}	1.000	0.990
P _{off}	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	575 kWh	441 kWh

Model WH-ADC0509L3E5B / WH-WDG09LE5

Nazwa modelu	WH-ADC0509L3E5B / WH-WDG09LE5
Zastosowanie	ogrzewanie + CWU + niskie temp.
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water

EN 16147 | Klimat umiarkowany

Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.61
Heating up time	1:04 h:min
Standby power input	33.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat chłodniejszy

Declared load profile	L
Efficiency η_{DHW}	112 %
COP	2.80
Heating up time	1:04 h:min
Standby power input	36.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat cieplejszy

Declared load profile	L
Efficiency η_{DHW}	160 %
COP	4.00
Heating up time	1:04 h:min
Standby power input	28.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono

Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW
COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Q _{he}	5142 kWh	5915 kWh
P _{dh} T _j = -15 °C (if TOL	7.30	6.50
COP T _j = -15 °C (if TOL	2.39	1.96
C _{dh} T _j = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η _s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2 °C	7.00 kW	7.00 kW
COP T _j = +2 °C	3.46	2.43
C _{dh} T _j = +2 °C	0.990	1.000
P _{dh} T _j = +7 °C	4.50 kW	4.50 kW
COP T _j = +7 °C	6.07	4.01
C _{dh} T _j = +7 °C	0.980	0.990
P _{dh} T _j = 12 °C	3.30 kW	3.10 kW
COP T _j = 12 °C	7.67	5.58
C _{dh} T _j = +12 °C	0.970	0.980
P _{dh} T _j = T _{biv}	7.00 kW	7.00 kW
COP T _j = T _{biv}	3.46	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.00 kW	7.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.46	2.43
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	1.000
WTOL	55 °C	55 °C
P _{off}	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q _{he}	1453 kWh	2080 kWh
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EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
P _{designc}	8.20 kW	9.00 kW
SEER	4.99	7.14
P _{dc Tj = 35°C}	8.20 kW	9.00 kW
EER Tj = 35°C	2.82	4.19
C _{dc Tj = 35 °C}	1.000	1.000
P _{dc Tj = 30°C}	6.04 kW	6.63 kW
EER Tj = 30°C	4.35	6.46
C _{dc Tj = 30 °C}	1.000	1.000
P _{dc Tj = 25°C}	3.88 kW	4.26 kW
EER Tj = 25°C	5.86	8.27
C _{dc Tj = 25 °C}	1.000	1.000
P _{dc Tj = 20°C}	2.78 kW	3.62 kW
EER Tj = 20°C	6.41	9.28
C _{dc Tj = 20 °C}	1.000	0.990
P _{off}	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	575 kWh	441 kWh

Model WH-ADC0509L6E5 / WH-WDG09LE5

Nazwa modelu	WH-ADC0509L6E5 / WH-WDG09LE5
Zastosowanie	ogrzewanie + CWU + niskie temp.
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water
EN 16147 | Klimat umiarkowany

Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.61
Heating up time	1:04 h:min
Standby power input	33.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat chłodniejszy

Declared load profile	L
Efficiency η_{DHW}	112 %
COP	2.80
Heating up time	1:04 h:min
Standby power input	36.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat cieplejszy

Declared load profile	L
Efficiency η_{DHW}	160 %
COP	4.00
Heating up time	1:04 h:min
Standby power input	28.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono

Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW
COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Q _{he}	5142 kWh	5915 kWh
P _{dh} T _j = -15 °C (if TOL	7.30	6.50
COP T _j = -15 °C (if TOL	2.39	1.96
C _{dh} T _j = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η _s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2 °C	7.00 kW	7.00 kW
COP T _j = +2 °C	3.46	2.43
C _{dh} T _j = +2 °C	0.990	1.000
P _{dh} T _j = +7 °C	4.50 kW	4.50 kW
COP T _j = +7 °C	6.07	4.01
C _{dh} T _j = +7 °C	0.980	0.990
P _{dh} T _j = 12 °C	3.30 kW	3.10 kW
COP T _j = 12 °C	7.67	5.58
C _{dh} T _j = +12 °C	0.970	0.980
P _{dh} T _j = T _{biv}	7.00 kW	7.00 kW
COP T _j = T _{biv}	3.46	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.00 kW	7.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.46	2.43
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	1.000
WTOL	55 °C	55 °C
P _{off}	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q _{he}	1453 kWh	2080 kWh
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EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
P _{designc}	8.20 kW	9.00 kW
SEER	4.99	7.14
P _{dc Tj = 35°C}	8.20 kW	9.00 kW
EER T _j = 35°C	2.82	4.19
C _{dc Tj = 35 °C}	1.000	1.000
P _{dc Tj = 30°C}	6.04 kW	6.63 kW
EER T _j = 30°C	4.35	6.46
C _{dc Tj = 30 °C}	1.000	1.000
P _{dc Tj = 25°C}	3.88 kW	4.26 kW
EER T _j = 25°C	5.86	8.27
C _{dc Tj = 25 °C}	1.000	1.000
P _{dc Tj = 20°C}	2.78 kW	3.62 kW
EER T _j = 20°C	6.41	9.28
C _{dc Tj = 20 °C}	1.000	0.990
P _{off}	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	575 kWh	441 kWh

Model WH-ADC0509L6E5AN / WH-WDG09LE5

Nazwa modelu	WH-ADC0509L6E5AN / WH-WDG09LE5
Zastosowanie	ogrzewanie + CWU + niskie temp.
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water

EN 16147 | Klimat umiarkowany

Declared load profile	L
Efficiency η_{DHW}	148 %
COP	3.61
Heating up time	1:04 h:min
Standby power input	33.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat chłodniejszy

Declared load profile	L
Efficiency η_{DHW}	112 %
COP	2.80
Heating up time	1:04 h:min
Standby power input	36.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 16147 | Klimat cieplejszy

Declared load profile	L
Efficiency η_{DHW}	160 %
COP	4.00
Heating up time	1:04 h:min
Standby power input	28.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	251 l

EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono

Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW
COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W

PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Q _{he}	5142 kWh	5915 kWh
P _{dh} T _j = -15 °C (if TOL	7.30	6.50
COP T _j = -15 °C (if TOL	2.39	1.96
C _{dh} T _j = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η _s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2 °C	7.00 kW	7.00 kW
COP T _j = +2 °C	3.46	2.43
C _{dh} T _j = +2 °C	0.990	1.000
P _{dh} T _j = +7 °C	4.50 kW	4.50 kW
COP T _j = +7 °C	6.07	4.01
C _{dh} T _j = +7 °C	0.980	0.990
P _{dh} T _j = 12 °C	3.30 kW	3.10 kW
COP T _j = 12 °C	7.67	5.58
C _{dh} T _j = +12 °C	0.970	0.980
P _{dh} T _j = T _{biv}	7.00 kW	7.00 kW
COP T _j = T _{biv}	3.46	2.43
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.00 kW	7.00 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.46	2.43
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.990	1.000
WTOL	55 °C	55 °C
P _{off}	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q _{he}	1453 kWh	2080 kWh
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EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
P _{designc}	8.20 kW	9.00 kW
SEER	4.99	7.14
P _{dc Tj = 35°C}	8.20 kW	9.00 kW
EER T _{j = 35°C}	2.82	4.19
C _{dc Tj = 35 °C}	1.000	1.000
P _{dc Tj = 30°C}	6.04 kW	6.63 kW
EER T _{j = 30°C}	4.35	6.46
C _{dc Tj = 30 °C}	1.000	1.000
P _{dc Tj = 25°C}	3.88 kW	4.26 kW
EER T _{j = 25°C}	5.86	8.27
C _{dc Tj = 25 °C}	1.000	1.000
P _{dc Tj = 20°C}	2.78 kW	3.62 kW
EER T _{j = 20°C}	6.41	9.28
C _{dc Tj = 20 °C}	1.000	0.990
P _{off}	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Q _{ce}	575 kWh	441 kWh

Model WH-SDC0509L3E5 / WH-WDG09LE5

Nazwa modelu	WH-SDC0509L3E5 / WH-WDG09LE5
Zastosowanie	ogrzewanie (średnie temp.)
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water

EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono
Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW

COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Qhe	5142 kWh	5915 kWh
Pdh Tj = -15°C (if TOL	7.30	6.50
COP Tj = -15°C (if TOL	2.39	1.96
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η_s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	7.00 kW
COP Tj = +2°C	3.46	2.43
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	4.50 kW	4.50 kW
COP Tj = +7°C	6.07	4.01
Cdh Tj = +7 °C	0.980	0.990

Pdh Tj = 12°C	3.30 kW	3.10 kW
COP Tj = 12°C	7.67	5.58
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	3.46	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.46	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1453 kWh	2080 kWh

EN 14825 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
Pdesignc	8.20 kW	9.00 kW
SEER	4.99	7.14
Pdc Tj = 35°C	8.20 kW	9.00 kW
EER Tj = 35°C	2.82	4.19
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.04 kW	6.63 kW
EER Tj = 30°C	4.35	6.46
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	3.88 kW	4.26 kW
EER Tj = 25°C	5.86	8.27
Cdc Tj = 25 °C	1.000	1.000
Pdc Tj = 20°C	2.78 kW	3.62 kW
EER Tj = 20°C	6.41	9.28
Cdc Tj = 20 °C	1.000	0.990
Poff	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Qce	575 kWh	441 kWh

Model WH-SDC0509L6E5 / WH-WDG09LE5

Nazwa modelu	WH-SDC0509L6E5 / WH-WDG09LE5
Zastosowanie	ogrzewanie (średnie temp.)
Jednostki	wewnętrzna, zewnętrzna
Strefa klimatyczna (do ogrzewania)	Klimat cieplejszy, Klimat chłodniejszy
Rewersyjny	Tak
Aplikacja w trybie chłodzenia (opcjonalnie)	+7°C/12°C, +18°C/+23°C
Wszelkie dodatkowe źródła ciepła	n/d

Dane ogólne

Zasilacz	1x230V 50Hz
Produkt pracujący poza godzinami szczytu poboru energii	n/a

Outdoor Air/Water

EN 14511-4 | ogrzewanie

Shutting off the heat transfer medium flow	Zatwierdzono
Complete power supply failure	Zatwierdzono
Defrost test	Zatwierdzono
Starting and operating test	Zatwierdzono

EN 14511-2 | ogrzewanie

	Niskie temperatury	Średnie temperatury
Heat output	9.00 kW	8.90 kW
El input	1.98 kW	2.94 kW
COP	4.55	3.03

EN 14511-2 | chłodzenie

	+7°C/+12°C	□+18°C/+23°C
El input	2.91 kW	2.15 kW
Cooling capacity	8.20	9.00
EER	2.82	4.19

EN 12102-1 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat umiarkowany

	Niskie temperatury	Średnie temperatury
η_s	190 %	144 %
Prated	8.00 kW	8.00 kW
SCOP	4.84	3.67
Tbiv	-10 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	7.10 kW
COP Tj = -7°C	2.83	2.28
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	4.30 kW	4.30 kW
COP Tj = +2°C	4.89	3.60
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	6.21	4.72
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.20 kW
COP Tj = 12°C	7.45	6.17
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	8.00 kW	7.10 kW
COP Tj = Tbiv	2.57	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	7.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	1.98
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.50 kW
Annual energy consumption Qhe	3417 kWh	4499 kWh

EN 12102-1 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat chłodniejszy

	Niskie temperatury	Średnie temperatury
η_s	170 %	130 %
Prated	9.00 kW	8.00 kW
SCOP	4.31	3.33
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.50 kW	4.80 kW
COP Tj = -7°C	3.61	2.80
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	3.30 kW	3.10 kW

COP Tj = +2°C	5.44	4.00
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	2.90 kW	2.80 kW
COP Tj = +7°C	6.49	5.14
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.49	6.79
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	7.30 kW	6.50 kW
COP Tj = Tbiv	2.39	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	2.20 kW	2.60 kW
Annual energy consumption Qhe	5142 kWh	5915 kWh
Pdh Tj = -15°C (if TOL	7.30	6.50
COP Tj = -15°C (if TOL	2.39	1.96
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Klimat cieplejszy

	Niskie temperatury	Średnie temperatury
η_s	255 %	177 %
Prated	7.00 kW	7.00 kW
SCOP	6.44	4.50
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.00 kW	7.00 kW
COP Tj = +2°C	3.46	2.43
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	4.50 kW	4.50 kW
COP Tj = +7°C	6.07	4.01
Cdh Tj = +7 °C	0.980	0.990

Pdh Tj = 12°C	3.30 kW	3.10 kW
COP Tj = 12°C	7.67	5.58
Cdh Tj = +12 °C	0.970	0.980
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	3.46	2.43
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.46	2.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	13 W	13 W
PSB	9 W	9 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Energia elektryczna	Energia elektryczna
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1453 kWh	2080 kWh

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	+7°C/+12°C	□+18°C/+23°C
Pdesignc	8.20 kW	9.00 kW
SEER	4.99	7.14
Pdc Tj = 35°C	8.20 kW	9.00 kW
EER Tj = 35°C	2.82	4.19
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.04 kW	6.63 kW
EER Tj = 30°C	4.35	6.46
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	3.88 kW	4.26 kW
EER Tj = 25°C	5.86	8.27
Cdc Tj = 25 °C	1.000	1.000
Pdc Tj = 20°C	2.78 kW	3.62 kW
EER Tj = 20°C	6.41	9.28
Cdc Tj = 20 °C	1.000	0.990
Poff	9 W	9 W
PTO	2 W	2 W
PSB	9 W	9 W
PCK	0 W	0 W
Annual energy consumption Qce	575 kWh	441 kWh