Login

Summary of	DAIKIN ALTHERMA 3 WS 6KW	Reg. No.	011-1W0520
Certificate Holder			
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	Zip	B-8400
City	Oostende	Country	Belgium
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	DAIKIN ALTHERMA 3 WS 6KW		
Heat Pump Type	Water/Water		
Refrigerant	R32		
Mass of Refrigerant	1.7 kg		
Certification Date	14.02.2022		
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 9 (as of 2021-03)		

Model: EWSAH06DA9W

Configure model	
Model name	EWSAH06DA9W
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.13 kW	5.61 kW
El input	1.15 kW	1.72 kW
COP	5.33	3.27

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	1.38 kW
Cooling capacity	5.81
EER	4.21

EN 14825

	+7°C/+12°C
Pdesignc	5.81 kW
SEER	6.98
Pdc Tj = 35°C	5.81 kW
EER Tj = 35°C	4.21
Pdc Tj = 30°C	4.54 kW
EER Tj = 30°C	5.82
Cdc	0.980
Pdc Tj = 25°C	2.77 kW
EER Tj = 25°C	8.83
Cdc	0.950
Pdc Tj = 20°C	3.12 kW
EER Tj = 20°C	10.41
Cdc	0.950
Poff	15 W
PTO	24 W
PSB	15 W
PCK	0 W
Annual energy consumption Qce	500 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	252 %	158 %
Prated	6.10 kW	5.60 kW
SCOP	6.49	4.15
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.20 kW	4.83 kW
COP Tj = -7°C	5.49	3.50
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.47 kW	3.13 kW
COP Tj = +2°C	6.68	4.46
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.16 kW	1.92 kW
COP Tj = +7°C	7.66	5.10
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.80 kW

COP Tj = 12°C	6.99	4.28
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	1941 kWh	2785 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	234 %	162 %
Prated	6.10 kW	5.60 kW
SCOP	6.06	4.24
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.13 kW	5.61 kW
COP Tj = +2°C	5.33	3.27
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.85 kW	3.53 kW
COP Tj = +7°C	6.14	3.93
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.67 kW	1.66 kW
COP Tj = 12°C	6.92	5.17
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W

PTO	24 W	24 W
PSB	15 W	15 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	1345 kWh	1766 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	194 %	166 %
Prated	6.05 kW	5.60 kW
SCOP	5.05	4.36
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.47 kW	3.68 kW
COP Tj = -7°C	6.68	4.26

Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.04 kW	2.06 kW
COP Tj = +2°C	7.26	4.86
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.31 kW	1.28 kW
COP Tj = +7°C	6.97	4.03
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.95 kW
COP Tj = 12°C	6.99	4.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	2952 kWh	3169 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Model: EWSAH06UDA9W

Configure model	
Model name	EWSAH06UDA9W
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.13 kW	5.61 kW
El input	1.15 kW	1.72 kW
COP	5.33	3.27

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	1.38 kW
Cooling capacity	5.81
EER	4.21

EN 14825

	+7°C/+12°C
Pdesignc	5.81 kW
SEER	6.98
Pdc Tj = 35°C	5.81 kW
EER Tj = 35°C	4.21
Pdc Tj = 30°C	4.54 kW
EER Tj = 30°C	5.82
Cdc	0.980
Pdc Tj = 25°C	2.77 kW
EER Tj = 25°C	8.83
Cdc	0.950
Pdc Tj = 20°C	3.12 kW
EER Tj = 20°C	10.41
Cdc	0.950
Poff	15 W
PTO	24 W
PSB	15 W
PCK	0 W
Annual energy consumption Qce	500 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	252 %	158 %
Prated	6.10 kW	5.60 kW
SCOP	6.49	4.15
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.20 kW	4.83 kW
COP Tj = -7°C	5.49	3.50
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.47 kW	3.13 kW
COP Tj = +2°C	6.68	4.46
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.16 kW	1.92 kW
COP Tj = +7°C	7.66	5.10
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.80 kW

COP Tj = 12°C	6.99	4.28
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	1941 kWh	2785 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	234 %	162 %
Prated	6.10 kW	5.60 kW
SCOP	6.06	4.24
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.13 kW	5.61 kW
COP Tj = +2°C	5.33	3.27
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.85 kW	3.53 kW
COP Tj = +7°C	6.14	3.93
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.67 kW	1.66 kW
COP Tj = 12°C	6.92	5.17
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W

PTO	24 W	24 W
PSB	15 W	15 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	1345 kWh	1766 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	194 %	166 %
Prated	6.05 kW	5.60 kW
SCOP	5.05	4.36
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.47 kW	3.68 kW
COP Tj = -7°C	6.68	4.26

Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.04 kW	2.06 kW
COP Tj = +2°C	7.26	4.86
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.31 kW	1.28 kW
COP Tj = +7°C	6.97	4.03
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.95 kW
COP Tj = 12°C	6.99	4.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	2952 kWh	3169 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Model: EWSAX06DA9W

Configure model	
Model name	EWSAX06DA9W
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.13 kW	5.61 kW
El input	1.15 kW	1.72 kW
COP	5.33	3.27

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	1.38 kW
Cooling capacity	5.81
EER	4.21

EN 14825

	+7°C/+12°C
Pdesignc	5.81 kW
SEER	6.98
Pdc Tj = 35°C	5.81 kW
EER Tj = 35°C	4.21
Pdc Tj = 30°C	4.54 kW
EER Tj = 30°C	5.82
Cdc	0.980
Pdc Tj = 25°C	2.77 kW
EER Tj = 25°C	8.83
Cdc	0.950
Pdc Tj = 20°C	3.12 kW
EER Tj = 20°C	10.41
Cdc	0.950
Poff	15 W
PTO	24 W
PSB	15 W
PCK	0 W
Annual energy consumption Qce	500 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	259 %	162 %
Prated	6.10 kW	5.60 kW
SCOP	6.68	4.24
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.20 kW	4.83 kW
COP Tj = -7°C	5.49	3.50
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.47 kW	3.13 kW
COP Tj = +2°C	6.68	4.46
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.16 kW	1.92 kW
COP Tj = +7°C	7.66	5.10
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.80 kW

COP Tj = 12°C	6.99	4.28
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	1886 kWh	2730 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	247 %	168 %
Prated	6.10 kW	5.60 kW
SCOP	6.37	4.40
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.13 kW	5.61 kW
COP Tj = +2°C	5.33	3.27
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.85 kW	3.53 kW
COP Tj = +7°C	6.14	3.93
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.67 kW	1.66 kW
COP Tj = 12°C	6.92	5.17
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W

PTO	24 W	24 W
PSB	15 W	15 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	1279 kWh	1699 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	196 %	168 %
Prated	6.05 kW	5.60 kW
SCOP	5.11	4.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.47 kW	3.68 kW
COP Tj = -7°C	6.68	4.26

Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.04 kW	2.06 kW
COP Tj = +2°C	7.26	4.86
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.31 kW	1.28 kW
COP Tj = +7°C	6.97	4.03
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.95 kW
COP Tj = 12°C	6.99	4.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	2919 kWh	3138 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Model: EWSAX06UDA9W

Configure model	
Model name	EWSAX06UDA9W
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

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

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.13 kW	5.61 kW
El input	1.15 kW	1.72 kW
COP	5.33	3.27

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

Cooling

EN 14511-2

	+7°C/+12°C
El input	1.38 kW
Cooling capacity	5.81
EER	4.21

EN 14825

	+7°C/+12°C
Pdesignc	5.81 kW
SEER	6.98
Pdc Tj = 35°C	5.81 kW
EER Tj = 35°C	4.21
Pdc Tj = 30°C	4.54 kW
EER Tj = 30°C	5.82
Cdc	0.980
Pdc Tj = 25°C	2.77 kW
EER Tj = 25°C	8.83
Cdc	0.950
Pdc Tj = 20°C	3.12 kW
EER Tj = 20°C	10.41
Cdc	0.950
Poff	15 W
PTO	24 W
PSB	15 W
PCK	0 W
Annual energy consumption Qce	500 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	259 %	162 %
Prated	6.10 kW	5.60 kW
SCOP	6.68	4.24
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.20 kW	4.83 kW
COP Tj = -7°C	5.49	3.50
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.47 kW	3.13 kW
COP Tj = +2°C	6.68	4.46
Cdh Tj = +2 °C	0.900	1.000
Pdh Tj = +7°C	2.16 kW	1.92 kW
COP Tj = +7°C	7.66	5.10
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.80 kW

COP Tj = 12°C	6.99	4.28
Cdh Tj = +12 °C	0.900	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	1886 kWh	2730 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**

η_s	247 %	168 %
Prated	6.10 kW	5.60 kW
SCOP	6.37	4.40
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.13 kW	5.61 kW
COP Tj = +2°C	5.33	3.27
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.85 kW	3.53 kW
COP Tj = +7°C	6.14	3.93
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.67 kW	1.66 kW
COP Tj = 12°C	6.92	5.17
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W

PTO	24 W	24 W
PSB	15 W	15 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	1279 kWh	1699 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	196 %	168 %
Prated	6.05 kW	5.60 kW
SCOP	5.11	4.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.47 kW	3.68 kW
COP Tj = -7°C	6.68	4.26

Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.04 kW	2.06 kW
COP Tj = +2°C	7.26	4.86
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.31 kW	1.28 kW
COP Tj = +7°C	6.97	4.03
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	0.99 kW	0.95 kW
COP Tj = 12°C	6.99	4.75
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.13 kW	5.61 kW
COP Tj = Tbiv	5.33	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.13 kW	5.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.33	3.27
WTOL	35 °C	55 °C
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 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	2919 kWh	3138 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	115 %
COP	2.77
Heating up time	1:48 h:min
Standby power input	27.6 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l