Subtype DAIKIN ALTHERMA 4 H ECH2O 08-10 kW 500L (3ph)

Certificate Holder	DAIKIN Europe N.V.
Address	Zandvoordestraat 300
ZIP	B-8400
City	Oostende
Country	BE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	DAIKIN ALTHERMA 4 H ECH2O 08-10 kW 500L (3ph)
Registration number	011-1W0939
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 kg
Certification Date	05.12.2024
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model EPSK08AW1 / EPSX(B)10P50A

Model name	EPSK08AW1 / EPSX(B)10P50A
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
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	XL
Efficiency ηDHW	123.9 %
COP	3.1
Heating up time	3:18 h:min
Standby power input	50 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	253.4 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	7.62 kW	7.85 kW
El input	1.52 kW	2.3 kW
COP	5.01	3.42

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.85 kW	
Cooling capacity	6.89	
EER	3.73	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	45 dB(A)	45 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	202 %	155 %
Prated	7.50 kW	7.50 kW
SCOP	5.14	3.96
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.70 kW	6.60 kW
COP Tj = -7°C	3.40	2.64
Cdh Tj = -7 °C	1.000	
Pdh Tj = +2°C	4.00 kW	4.10 kW
COP Tj = +2°C	5.06	3.92
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.70 kW	2.60 kW
COP Tj = +7°C	6.43	4.80
Cdh Tj = +7 °C	0.900	1.000
Pdh Tj = 12°C	2.90 kW	2.80 kW
COP Tj = 12°C	8.23	6.45
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.40 kW	6.59 kW
COP Tj = Tbiv	2.97	2.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.40 kW	6.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	29 W	29 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.80 kW
Annual energy consumption Qhe	3017 kWh	3929 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.8 kW	
SEER	5.26	
Pdc Tj = 35°C	6.91 kW	
EER Tj = 35°C	3.76	

Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	5.05
Cdc Tj = 30 °C	0.97
Pdc Tj = 25°C	3.2 kW
EER Tj = 25°C	6.68
Cdc Tj = 25 °C	0.94
Pdc Tj = 20°C	6.7 kW
EER Tj = 20°C	6.01
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	29 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	776 kWh

Model EPSK10AW1 / EPSX(B)10P50A

Model name	EPSK10AW1 / EPSX(B)10P50A
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
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	XL
Efficiency ηDHW	123.9 %
COP	3.1
Heating up time	3:18 h:min
Standby power input	50 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	253.4 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	8.11 kW	8.4 kW
El input	1.64 kW	2.46 kW
COP	4.94	3.41

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.17 kW	
Cooling capacity	7.84	
EER	3.62	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	203 %	157 %
Prated	8.50 kW	8.50 kW
SCOP	5.14	4.02
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	7.40 kW
COP Tj = -7°C	3.31	2.62
Cdh Tj = -7 °C	1.000	
Pdh Tj = +2°C	4.60 kW	4.70 kW
COP Tj = +2°C	5.07	3.98
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	6.48	4.93
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	2.90 kW	2.80 kW
COP Tj = 12°C	8.30	6.52
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.30 kW	7.43 kW
COP Tj = Tbiv	2.84	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	6.72 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	29 W	29 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	1.80 kW
Annual energy consumption Qhe	3415 kWh	4403 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.9 kW	
SEER	5.23	
Pdc Tj = 35°C	7.84 kW	
EER Tj = 35°C	3.62	

Pdc Tj = 30°C	5.97 kW
EER Tj = 30°C	4.87
Cdc Tj = 30 °C	0.98
Pdc Tj = 25°C	3.75 kW
EER Tj = 25°C	6.53
Cdc Tj = 25 °C	0.95
Pdc Tj = 20°C	6.7 kW
EER Tj = 20°C	6.05
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	29 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	907 kWh