This information was generated by the HP KEYMARK database on 18 Mar 2022

Login

Summary of	DAIKIN ALTHERMA 3 GEO 10KW	Reg. No.	011-1W0338
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 GEO 10KW		
Heat Pump Type	Brine/Water		
Refrigerant	R32		
Mass of Refrigerant	1.7 kg		
Certification Date	14.06.2019		

Model: EGSAX10D9W(G) (1PH)

Configure model	
Model name	EGSAX10D9W(G) (1PH)
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	1x230V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.49 kW	5.60 kW
El input	1.17 kW	1.95 kW
COP	4.70	2.87

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

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	200 %	154 %
Prated	8.50 kW	8.50 kW
SCOP	5.20	4.05
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.67 kW	7.45 kW
COP Tj = -7°C	4.51	3.15
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW

COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3373 kWh	4339 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	207 %	159 %
Prated	8.50 kW	8.50 kW
SCOP	5.36	4.18

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
COP Tj = -7°C	5.45	3.92
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh

Cooling

EN 14511-2		
	+7°C/+12°C	**+18°C/+23°C**
El input	0.75 kW	0.49 kW
Cooling capacity	8.13	8.42
EER	10.8	17.13

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	8.4 kW	8.4 kW
SEER	12.93	13.87
Pdc Tj = 35°C	8.13 kW	8.42 kW
EER Tj = 35°C	10.8	17.13
Pdc Tj = 30°C	6.56 kW	6.13 kW
EER Tj = 30°C	15.17	17.1
Cdc	0.97	0.96
Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc	0.94	0.93
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	390 kWh	363 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 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	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Model: EGSAX10D9W(G) (3PH)

Configure model	
Model name	EGSAX10D9W(G) (3PH)
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C and +18°C/+23°C

General Data	
Power supply	3x400V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.49 kW	5.60 kW
El input	1.17 kW	1.95 kW
COP	4.70	2.87

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

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	200 %	154 %
Prated	8.50 kW	8.50 kW
SCOP	5.20	4.05
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.67 kW	7.45 kW
COP Tj = -7°C	4.51	3.15
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW

COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3373 kWh	4339 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	207 %	159 %
Prated	8.50 kW	8.50 kW
SCOP	5.36	4.18

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
COP Tj = -7°C	5.45	3.92
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh

Cooling

EN 14511-2		
	+7°C/+12°C	**+18°C/+23°C**
El input	0.75 kW	0.49 kW
Cooling capacity	8.13	8.42
EER	10.8	17.13

EN 14825

	+7°C/+12°C	**+18°C/+23°C**
Pdesignc	8.4 kW	8.4 kW
SEER	12.93	13.87
Pdc Tj = 35°C	8.13 kW	8.42 kW
EER Tj = 35°C	10.8	17.13
Pdc Tj = 30°C	6.56 kW	6.13 kW
EER Tj = 30°C	15.17	17.1
Cdc	0.97	0.96
Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc	0.94	0.93
Poff	15 W	15 W
PTO	24 W	24 W
PSB	15 W	15 W
PCK	0 W	0 W
Annual energy consumption Qce	390 kWh	363 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 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	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Model: EGSAH10D9W (1PH)

Configure model	
Model name	EGSAH10D9W (1PH)
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.49 kW	5.60 kW
El input	1.17 kW	1.95 kW
COP	4.70	2.87

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

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	152 %
Prated	8.50 kW	8.50 kW
SCOP	5.12	4.00
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.67 kW	7.45 kW
COP Tj = -7°C	4.51	3.15
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW

COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	205 %	158 %
Prated	8.50 kW	8.50 kW
SCOP	5.32	4.15

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
COP Tj = -7°C	5.45	3.92
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 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	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l

Model: EGSAH10D9W (3PH)

Configure model	
Model name	EGSAH10D9W (3PH)
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.49 kW	5.60 kW
El input	1.17 kW	1.95 kW
COP	4.70	2.87

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

Average Climate

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

EN 14825		
	Low temperature	**Medium temperature**
η_s	197 %	152 %
Prated	8.50 kW	8.50 kW
SCOP	5.12	4.00
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.67 kW	7.45 kW
COP Tj = -7°C	4.51	3.15
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW

COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

Colder Climate

EN 14825		
	Low temperature	**Medium temperature**
η_s	205 %	158 %
Prated	8.50 kW	8.50 kW
SCOP	5.32	4.15

Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
COP Tj = -7°C	5.45	3.92
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
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	9.00 kW	9.00 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 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	117 %
COP	2.82
Heating up time	1:43 h:min
Standby power input	26.2 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	239 l