

Summary of	DAIKIN ALTHERMA 3 GEO 10KW	Reg. No.	011-1W0338	
Certificate Holder				
Name	DAIKIN Europe N.V.	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	Zip	B-8400	
City	Oostende	Country	Belgium	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Name of testing laboratory	RISE Research Institutes of Sweden A	RISE Research Institutes of Sweden AB		
Subtype title	DAIKIN ALTHERMA 3 GEO 10KW			
Heat Pump Type	Brine/Water			
Refrigerant	R32	R32		
Mass Of Refrigerant	1.7 kg			
Certification Date	14.06.2019			



# Model: EGSAX10D9W(G) (1PH)

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	
СОР	4.70	2.87	
Indoor water flow rate	0.94 m³/h	0.60 m³/h	

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

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



EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	1.00	1.00	
Pdh Tj = +2°C	4.59 kW	4.68 kW	
COP Tj = +2°C	5.43	4.09	
Cdh	1.00	1.00	
Pdh Tj = +7°C	2.93 kW	2.98 kW	
COP Tj = +7°C	5.38	4.54	
Cdh	1.00	1.00	
Pdh Tj = 12°C	1.36 kW	1.37 kW	
COP Tj = 12°C	5.10	4.59	
Cdh	0.90	0.90	
Pdh Tj = Tbiv	8.55 kW	8.49 kW	
COP Tj = Tbiv	4.29	2.85	

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
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
$\eta_{s}$	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

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





	generated by the in itali	With database on 17 Dec 2020
Cdh	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	2.11 kW	2.07 kW
$COP Tj = +7^{\circ}C$	5.74	4.73
Cdh	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW



Page 6 of 27

This information was generated by the HP KEYMARK database on 17 Dec 2020

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
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o w
Annual energy consumption Qce	390 kWh	363 kWh

### Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	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	

#### Colder Climate

EN 16147			
Declared load profile	L		
Efficiency ηDHW	117 %		
СОР	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		



# Model: EGSAX10D9W(G) (3PH)

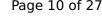
General Data		
Power supply	3x400V 50Hz	
Off-peak product	No	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.49 kW	5.60 kW
El input	1.17 kW	1.95 kW
СОР	4.70	2.87
Indoor water flow rate	0.94 m³/h	0.60 m³/h

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

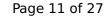
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)





 $$\operatorname{\textit{Page}}\ 10$$  of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	1.00	1.00	
Pdh Tj = +2°C	4.59 kW	4.68 kW	
COP Tj = +2°C	5.43	4.09	
Cdh	1.00	1.00	
Pdh Tj = +7°C	2.93 kW	2.98 kW	
COP Tj = +7°C	5.38	4.54	
Cdh	1.00	1.00	
Pdh Tj = 12°C	1.36 kW	1.37 kW	
COP Tj = 12°C	5.10	4.59	
Cdh	0.90	0.90	
Pdh Tj = Tbiv	8.55 kW	8.49 kW	
COP Tj = Tbiv	4.29	2.85	





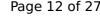
				_
This information	was generated b	y the HP KEYMARK	database on 1	7 Dec 2020

Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	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	Electrical	Electrical
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	
$\eta_{s}$	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	

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





# $$\operatorname{\textit{Page}}\ 12$$ of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

ins information was g	enerated by the fit RETI	milit database on 17 Dec 202
Cdh	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W
PSB	15 W	15 W
РСК	o w	o w
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW



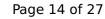
 $$\operatorname{\textit{Page}}\ 13$$  of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

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
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o w
Annual energy consumption Qce	390 kWh	363 kWh

### Domestic Hot Water (DHW)



 $$\operatorname{\textit{Page}}\ 15$$  of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	117 %
СОР	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

#### Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	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	



# Model: EGSAH10D9W (1PH)

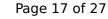
General Data		
Power supply	1x230V 50Hz	
Off-peak product	No	

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.49 kW	5.60 kW	
El input	1.17 kW	1.95 kW	
СОР	4.70	2.87	
Indoor water flow rate	0.94 m³/h	0.60 m³/h	

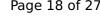
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

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





EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	1.00	1.00
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh	1.00	1.00
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.10	4.59
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85





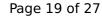
 $$\operatorname{\textit{Page}}\ 18$$  of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	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	Electrical	Electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

#### Colder Climate

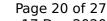
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	205 %	158 %
Prated	8.50 kW	8.50 kW
SCOP	5.32	4.15
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
COP Tj = -7°C	5.45	3.92

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





	generated by the in itali	With database on 17 Dec 2020
Cdh	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	2.11 kW	2.07 kW
$COP Tj = +7^{\circ}C$	5.74	4.73
Cdh	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW





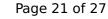
Annual energy consumption Qhe	3938 kWh	5047 kWh

# Domestic Hot Water (DHW)

### Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	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	

#### Colder Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	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	



# Model: EGSAH10D9W (3PH)

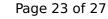
General Data			
Power supply	3x400V 50Hz		
Off-peak product No			

### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	5.49 kW	5.60 kW	
El input	1.17 kW	1.95 kW	
СОР	4.70	2.87	
Indoor water flow rate	0.94 m³/h	0.60 m³/h	

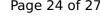
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Starting and operating test	passed	

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





EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	1.00	1.00
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh	1.00	1.00
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.10	4.59
Cdh	0.90	0.90
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85





 $$\operatorname{\textit{Page}}\xspace$  24 of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	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	Electrical	Electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

#### Colder Climate

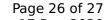
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	205 %	158 %
Prated	8.50 kW	8.50 kW
SCOP	5.32	4.15
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
COP Tj = -7°C	5.45	3.92

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





	generated by the in itali	With database on 17 Dec 2020
Cdh	1.00	1.00
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh	1.00	1.00
Pdh Tj = $+7^{\circ}$ C	2.11 kW	2.07 kW
$COP Tj = +7^{\circ}C$	5.74	4.73
Cdh	1.00	1.00
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh	1.00	1.00
Pdh Tj = Tbiv	8.55 kW	8.49 kW
COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL	8.55 kW	8.49 kW
COP Tj = TOL	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW





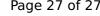
Annual energy consumption Qhe	3938 kWh	5047 kWh
-------------------------------	----------	----------

### Domestic Hot Water (DHW)

### Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	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 I	

#### Colder Climate





 $$\operatorname{\textit{Page}}\xspace$  27 of 27 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	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 I	