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Summary of	DAIKIN ALTHERMA 3 GEO 10KW	Reg. No.	011-1W0338
Certificate Holder	'	<u> </u>	
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	
СОР	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



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

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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
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o 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

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This information was gener		
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
$COPTj = -7^{\circ}C$	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 = $+7^{\circ}$ 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
РТО	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
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 I	

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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	
СОР	4.70	2.87	

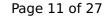
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed



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
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TOL	-10 °C	-10 °C
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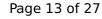
Cdh Tj = +12 °C 0.90 0.90 Pdh Tj = Tbiv 8.55 kW 8.49 kW COP Tj = Tbiv 4.29 2.85 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 8.55 kW 8.49 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 4.29 2.85 WTOL 35 °C 55 °C Poff 15 W 15 W PTO 24 W 24 W PSB 15 W 15 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 9.00 kW 9.00 kW			
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	COP Tj = 12°C	5.10	4.59
COP Tj = Tbiv 4.29 2.85 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	8.55 kW	8.49 kW
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PTO 24 W 24 W PSB 15 W 15 W O W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 9.00 kW 9.00 kW	WTOL	35 °C	55 °C
PSB 15 W 15 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity 9.00 kW 9.00 kW	Poff	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	РТО	24 W	24 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 9.00 kW 9.00 kW	PSB	15 W	15 W
Supplementary Heater: PSUP 9.00 kW 9.00 kW	PCK	o w	0 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3373 kWh 4339 kWh	Supplementary Heater: PSUP	9.00 kW	9.00 kW
	Annual energy consumption Qhe	3373 kWh	4339 kWh

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





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COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = $+7^{\circ}$ 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
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COP Tj = Tbiv	4.29	2.85
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WTOL	35 °C	55 °C
Poff	15 W	15 W
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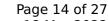


PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh

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





The machine mass gener	+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	

EN 16147		
Declared load profile	L	
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Reference hot water temperature	53.0 °C	
Mixed water at 40°C	239	



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
СОР	4.70	2.87

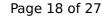
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed



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
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Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	1.36 kW	1.37 kW

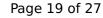
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COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.90	0.90
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COP Tj = Tbiv	4.29	2.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W
PSB	15 W	15 W
PCK	o w	o 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

EN 14825		
	Low temperate	ure Medium temperature
η_{S}	205 %	158 %
Prated	8.50 kW	8.50 kW
SCOP	5.32	4.15
	·	





This information was gener		
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.97 kW	5.43 kW
$COPTj = -7^{\circ}C$	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 = $+7^{\circ}$ C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.00	1.00
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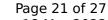


	<u> </u>	
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	2.82	
Heating up time	1:43 h:min	
Standby power input	26.2 W	
Reference hot water temperature	53.0 °C	
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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	
СОР	4.70	2.87	

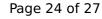
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Complete power supply failure	passed	
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.55 kW	8.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.29	2.85
WTOL	35 °C	55 °C
Poff	15 W	15 W
РТО	24 W	24 W



PSB	15 W	15 W
PCK	o w	o 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 %		
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		



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	