

Subtype DAIKIN ALTHERMA 3 GEO 10KW

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 3 GEO 10KW
Registration number	011-1W0338
Heat Pump Type	Brine/Water
Refrigerant	R32
Mass of Refrigerant	1.7 kg
Certification Date	14.06.2019

**Model EGSAH10D9W \_1P**

Model name	EGSAH10D9W _1P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Brine/Water****EN 16147 | Average Climate**

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

**EN 16147 | Colder Climate**

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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	197 %	152 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.1	4.59
Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	205 %	158 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.0	1.0
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	0 kW	0 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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

**Model EGSAH10D9W \_3P**

Model name	EGSAH10D9W _3P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

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

**Brine/Water****EN 16147 | Average Climate**

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

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**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	197 %	152 %
Prated	8.5 kW	8.5 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	1
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COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
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COP Tj = +7°C	5.38	4.54
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Pdh Tj = 12°C	1.36 kW	1.37 kW
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Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	205 %	158 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
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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 kW	0 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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

**Model EGSAH10UD9W \_1P**

Model name	EGSAH10UD9W _1P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Brine/Water****EN 16147 | Average Climate**

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

**EN 16147 | Colder Climate**

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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	197 %	152 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	207 %	159 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.0	1.0
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	0 kW	0 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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

**Model EGSAH10UD9W \_3P**

Model name	EGSAH10UD9W _3P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

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

**Brine/Water****EN 16147 | Average Climate**

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

**EN 16147 | Colder Climate**

Declared load profile	L
Efficiency ηDHW	117 %
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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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	0.75 kW	0.49 kW
EER	8.13	8.42
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	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
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Prated	8.5 kW	8.5 kW
SCOP	5.12	4.00
Tbiv	-10 °C	-10 °C
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3428 kWh	4393 kWh

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0 kW	0 kW
Annual energy consumption Qhe	3938 kWh	5047 kWh
EN 14825   Cooling		
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Pdesignc	8.4 kW	8.4 kW
SEER	12.93	13.87
Pdc Tj = 35°C	8.13 kW	8.42 kW
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Annual energy consumption Qce	390 kWh	363 kWh

**Model EGSAX10D9W(G) \_1P**

Model name	EGSAX10D9W(G) _1P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Brine/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	117 %
COP	2.82
Heating up time	1:43 h:min
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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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	200 %	154 %
Prated	8.5 kW	8.5 kW
SCOP	5.2	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	1
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.1	4.59
Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3373 kWh	4339 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	207 %	159 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.0	1.0
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	0 kW	0 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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

**Model EGSAX10D9W(G) \_3P**

Model name	EGSAX10D9W(G) _3P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

**General data**

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

**Brine/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**EN 16147 | Colder Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	200 %	154 %
Prated	8.5 kW	8.5 kW
SCOP	5.2	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	1
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.1	4.59
Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3373 kWh	4339 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	207 %	159 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.0	1.0
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	0 kW	0 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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

**Model EGSAX10UD9W \_1P**

Model name	EGSAX10UD9W _1P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Brine/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**EN 16147 | Colder Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	200 %	154 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3373 kWh	4339 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	207 %	159 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.0	1.0
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	0 kW	0 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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

**Model EGSAX10UD9W \_3P**

Model name	EGSAX10UD9W _3P
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

**General data**

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

**Brine/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**EN 16147 | Colder Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	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

**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	5.49 kW	5.6 kW
El input	1.17 kW	1.95 kW
COP	4.7	2.87

**EN 14511-2 | Cooling**

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

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	200 %	154 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	4.59 kW	4.68 kW
COP Tj = +2°C	5.43	4.09
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.93 kW	2.98 kW
COP Tj = +7°C	5.38	4.54
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.36 kW	1.37 kW
COP Tj = 12°C	5.10	4.59
Cdh Tj = +12 °C	0.9	0.9
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	0 kW	0 kW
Annual energy consumption Qhe	3373 kWh	4339 kWh

**EN 12102-1 | Colder Climate**

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
EN 14825   Colder Climate		
	Low temperature	Medium temperature
ηs	207 %	159 %
Prated	8.5 kW	8.5 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	1
Pdh Tj = +2°C	3.05 kW	3.32 kW
COP Tj = +2°C	5.49	4.58
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	2.11 kW	2.07 kW
COP Tj = +7°C	5.74	4.73
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	1.19 kW	0.98 kW
COP Tj = 12°C	4.64	3.82
Cdh Tj = +12 °C	1.0	1.0
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	0 kW	0 kW
Annual energy consumption Qhe	3905 kWh	5015 kWh
EN 14825   Cooling		
	+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 Tj = 30 °C	0.97	0.96

Pdc Tj = 25°C	4.02 kW	3.77 kW
EER Tj = 25°C	15.98	14.26
Cdc Tj = 25 °C	0.94	0.94
Pdc Tj = 20°C	3.28 kW	3.57 kW
EER Tj = 20°C	12.99	16.42
Cdc Tj = 20 °C	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