

## Subtype ECOGEO B/C 1 1-9kW

Certificate Holder	Ecoforest Geotermia S.L.
Address	Rúa das Pontes, 25
ZIP	36350
City	Nigrán (Pontevedra)
Country	ES
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ECOGEO B/C 1 1-9kW
Registration number	011-1W0326
Heat Pump Type	Brine/Water
Refrigerant	R410A
Mass of Refrigerant	0.9 kg
Certification Date	28.05.2019

## Model ecoGEO C2T 1-9kW

Model name	ecoGEO C2T 1-9kW
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	Yes

## Brine/Water

### EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	78 %
COP	2.07
Heating up time	1:43:10 h:min
Standby power input	88.2 W
Reference hot water temperature	58.9 °C
Mixed water at 40°C	227 l

### EN 16147 | Colder Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	78 %
COP	2.07
Heating up time	01:43:10 h:min
Standby power input	88.2 W
Reference hot water temperature	58.9 °C
Mixed water at 40°C	227 l

### EN 16147 | Warmer Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	78 %
COP	2.07
Heating up time	1:43:10 h:min
Standby power input	88.2 W
Reference hot water temperature	58.9 °C
Mixed water at 40°C	227 l

## Model ecoGEO C1 1-9kW

Model name	ecoGEO C1 1-9kW
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	Yes

## Brine/Water

### EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	78 %
COP	2.07
Heating up time	1:43:10 h:min
Standby power input	88.2 W
Reference hot water temperature	58.9 °C
Mixed water at 40°C	227 l

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## Model ecoGEO C1T 1-9kW

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

## General data

Power supply	3x400V 50Hz
Off-peak product	Yes

## Brine/Water

### EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	78 %
COP	2.07
Heating up time	1:43:10 h:min
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Reference hot water temperature	58.9 °C
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Standby power input	88.2 W
Reference hot water temperature	58.9 °C
Mixed water at 40°C	227 l

## Model ecoGEO C2 1-9kW

Model name	ecoGEO C2 1-9kW
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	Yes

## Brine/Water

### EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	78 %
COP	2.07
Heating up time	1:43:10 h:min
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Efficiency $\eta_{DHW}$	78 %
COP	2.07
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Standby power input	88.2 W
Reference hot water temperature	58.9 °C
Mixed water at 40°C	227 l

## Model ecoGEO B1T 1-9kW

Model name	ecoGEO B1T 1-9kW
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	Yes

## Brine/Water

### 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	11.00 kW	10.90 kW
SCOP	4.84	3.54
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.59 kW	9.03 kW
COP Tj = -7°C	3.85	2.72
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4692 kWh	6362 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	163 %
Prated	11.00 kW	10.90 kW
SCOP	4.76	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh Tj = +7 °C	0.980	0.970
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh Tj = +12 °C	0.960	0.950
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000

WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5695 kWh	6279 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	137 %
Prated	11.00 kW	10.90 kW
SCOP	4.80	3.62
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.69 kW	10.05 kW
COP Tj = +2°C	3.55	2.48
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.62 kW	7.21 kW
COP Tj = +7°C	4.31	3.12
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3061 kWh	4020 kWh



## Model ecoGEO B2T 1-9kW

Model name	ecoGEO B2T 1-9kW
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	Yes

## Brine/Water

### 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	11.00 kW	10.90 kW
SCOP	4.84	3.54
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.59 kW	9.03 kW
COP Tj = -7°C	3.85	2.72
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4692 kWh	6362 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	163 %
Prated	11.00 kW	10.90 kW
SCOP	4.76	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh Tj = +7 °C	0.980	0.970
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh Tj = +12 °C	0.960	0.950
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000

WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5695 kWh	6279 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	137 %
Prated	11.00 kW	10.90 kW
SCOP	4.80	3.62
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.69 kW	10.05 kW
COP Tj = +2°C	3.55	2.48
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.62 kW	7.21 kW
COP Tj = +7°C	4.31	3.12
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3061 kWh	4020 kWh

## Model ecoGEO B1 1-9kW

Model name	ecoGEO B1 1-9kW
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	Yes

## Brine/Water

### 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	11.00 kW	10.90 kW
SCOP	4.84	3.54
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.59 kW	9.03 kW
COP Tj = -7°C	3.85	2.72
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4692 kWh	6362 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	163 %
Prated	11.00 kW	10.90 kW
SCOP	4.76	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
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Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh Tj = +7 °C	0.980	0.970
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh Tj = +12 °C	0.960	0.950
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000

WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5695 kWh	6279 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	137 %
Prated	11.00 kW	10.90 kW
SCOP	4.80	3.62
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.69 kW	10.05 kW
COP Tj = +2°C	3.55	2.48
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.62 kW	7.21 kW
COP Tj = +7°C	4.31	3.12
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3061 kWh	4020 kWh

## Model ecoGEO B2 1-9kW

Model name	ecoGEO B2 1-9kW
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	Yes

## Brine/Water

### 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	11.00 kW	10.90 kW
SCOP	4.84	3.54
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.59 kW	9.03 kW
COP Tj = -7°C	3.85	2.72
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.98 kW	6.07 kW
COP Tj = +2°C	4.89	3.52
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	3.81 kW	3.95 kW
COP Tj = +7°C	5.74	4.31
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	1.73 kW	1.67 kW
COP Tj = 12°C	4.93	3.80
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4692 kWh	6362 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	163 %
Prated	11.00 kW	10.90 kW
SCOP	4.76	4.28
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.17 kW	6.81 kW
COP Tj = -7°C	4.47	3.62
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	4.33 kW	4.19 kW
COP Tj = +2°C	5.47	4.96
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.73 kW	2.69 kW
COP Tj = +7°C	5.74	6.00
Cdh Tj = +7 °C	0.980	0.970
Pdh Tj = 12°C	1.30 kW	1.30 kW
COP Tj = 12°C	3.91	5.15
Cdh Tj = +12 °C	0.960	0.950
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000



WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5695 kWh	6279 kWh

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	54 dB(A)	54 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	184 %	137 %
Prated	11.00 kW	10.90 kW
SCOP	4.80	3.62
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	10.69 kW	10.05 kW
COP Tj = +2°C	3.55	2.48
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	7.62 kW	7.21 kW
COP Tj = +7°C	4.31	3.12
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.33 kW	3.26 kW
COP Tj = 12°C	5.72	4.50
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	10.69 kW	10.05 kW
COP Tj = Tbiv	3.55	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.69 kW	10.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.55	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3061 kWh	4020 kWh