

## ZERTIFIKAT CERTIFICATE

**Bosch Thermotechnik GmbH**  
**Junkersstraße 20 - 24**  
**73249 Wernau**  
**Germany**

mit der(n) Fertigungsstätte(n) /with the production site(s)

Glen Dimplex Deutschland GmbH, Am Goldenen Feld 18, 95326 Kulmbach, Germany

ist berechtigt, unter den in diesem Dokument angegebenen Bedingungen für ihr Produkt /  
*is authorized under the conditions given in this document to use for their product*

**Luft-Wasser-Wärmepumpe**  
Air-Water Heat pump

Subtypes / subtypes  
**CS5000AW 38 O, CS5000AW 38 OR**

*Model / model*

das unten abgebildete KEYMARK Zeichen gemeinsam mit der ID Nummer zu benutzen /  
*the KEYMARK Mark as shown below in conjunction with the ID number*



**038**

Bewertungsgrundlage  
*Testing Basis*

DIN EN 14511-1:2019-07; EN 14511-1:2018  
DIN EN 14511-2:2019-07; EN 14511-2:2018  
DIN EN 14511-3:2019-07; EN 14511-3:2018  
DIN EN 14511-4:2019-07; EN 14511-4:2018  
DIN EN 14825:2019-07; EN 14825:2018  
DIN EN 12102-1: 2018-02; EN 12102-1:2017

ID Nummer  
*ID number*

40054438

Report Nr.  
*Report No*


291151-TL2-1

Weitere Information  
*Further Information*

Siehe Anlage 601 vom 2021-12-14  
*See Appendix 601 dated 2021-12-14*

VDE Prüf- und Zertifizierungsinstitut GmbH  
*VDE Testing and Certification Institute*  
Zertifizierung Produkte / *Certification Products*

Gültig bis 2031-10-21  
*Valid until*

  
2021-12-14 A. Fabian

## Subtype Bosch CS5000AW 38 O

Certificate Holder	Bosch Thermotechnik GmbH
Address	Junkersstraße 20 - 24
ZIP	73249
City	Wernau
Country	DE
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH
Subtype title	Bosch CS5000AW 38 O
Registration number	40054438
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	15.7 kg
Certification Date	14.12.2021
Testing basis	DIN EN 14511-1:2019-07; EN 14511-1:2018 DIN EN 14511-2:2019-07; EN 14511-2:2018 DIN EN 14511-3:2019-07; EN 14511-3:2018 DIN EN 14511-4:2019-07; EN 14511-4:2018 DIN EN 14825:2019-07; EN 14825:2018 DIN EN 12102-1: 2018-02; EN 12102-1:2017

## Model Bosch CS5000AW 38 O

Model name	Bosch CS5000AW 38 O
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

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

## Outdoor Air/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 outdoor	72 dB(A)	72 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	154 %	130 %
Prated	36.00 kW	36.00 kW
SCOP	3.91	3.33
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	38.10 kW	38.10 kW
COP Tj = -7°C	3.02	2.41
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	27.50 kW	26.50 kW
COP Tj = +2°C	3.89	3.30
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	35.20 kW	33.80 kW
COP Tj = +7°C	4.79	4.19
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	41.30 kW	39.70 kW
COP Tj = 12°C	5.41	4.76
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	35.60 kW	36.00 kW
COP Tj = Tbiv	2.85	2.22

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.60 kW	36.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.22
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	30 W	30 W
PTO	29 W	29 W
PSB	30 W	30 W
PCK	95 W	95 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.42 kW	1.00 kW
Annual energy consumption Qhe	19007 kWh	16840 kWh

## Model Bosch CS5000AW 38 OR

Model name	Bosch CS5000AW 38 OR
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x230V 50Hz
Off-peak product	n/a

## Outdoor Air/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 outdoor	72 dB(A)	72 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	157 %	133 %
Prated	36.00 kW	36.00 kW
SCOP	4.01	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	38.10 kW	39.00 kW
COP Tj = -7°C	3.02	2.41
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	27.50 kW	26.50 kW
COP Tj = +2°C	3.89	3.30
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	35.20 kW	33.80 kW
COP Tj = +7°C	4.79	4.19
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	41.30 kW	39.70 kW
COP Tj = 12°C	5.41	4.76
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	35.60 kW	36.00 kW
COP Tj = Tbiv	2.85	2.22

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	35.60 kW	35.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.22
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	30 W	30 W
PTO	29 W	29 W
PSB	30 W	30 W
PCK	95 W	95 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.42 kW	1.00 kW
Annual energy consumption Qhe	18548 kWh	16564 kWh