

Subtype Bosch CS5000AW 22 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 22 O
Registration number	40054437
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	5.6 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 22 O

Model name	Bosch CS5000AW 22 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	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	152 %	125 %
Prated	20.70 kW	20.70 kW
SCOP	3.87	3.21
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	21.80 kW	22.20 kW
COP Tj = -7°C	3.02	2.36
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	14.30 kW	14.14 kW
COP Tj = +2°C	3.88	3.22
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	18.00 kW	17.58 kW
COP Tj = +7°C	4.79	3.95
Cdh Tj = +7 °C	0.990	1.000
Pdh Tj = 12°C	21.90 kW	21.33 kW
COP Tj = 12°C	5.72	4.93
Cdh Tj = +12 °C	0.990	1.000
Pdh Tj = Tbiv	20.50 kW	20.63 kW
COP Tj = Tbiv	2.90	2.17

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	20.50 kW	20.63 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.17
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	88 W	88 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	0.07 kW
Annual energy consumption Qhe	11198 kWh	13342 kWh