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Summary of	Bosch CS5000AW 38 O	Reg. No.	40054438
Certificate Holder			
Name	Bosch Thermotechnik GmbH		
Address	Junkersstraße 20 - 24	Zip	73249
City	Wernau	Country	Germany
Certification Body	VDE Prüf- und Zertifizierungsinstitut GmbH		
Subtype title	Bosch CS5000AW 38 O		
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

Configure model	
Model name	Bosch CS5000AW 38 O
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	35.40 kW	31.70 kW
El input	7.89 kW	10.00 kW
COP	4.48	3.16

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	72 dB(A)

EN 14825

	Low temperature	Medium temperature
η_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

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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

Configure model	
Model name	Bosch CS5000AW 38 OR
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	35.40 kW	31.70 kW
El input	7.89 kW	10.00 kW
COP	4.48	3.16

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

Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	72 dB(A)	72 dB(A)

EN 14825

	Low temperature	Medium temperature
η_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
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Pdh Tj = 12°C	41.30 kW	39.70 kW

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COP Tj = 12°C	5.41	4.76
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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