

This information was generated by the HP KEYMARK database on 22 Jun 2022

[Login](#)

Summary of	Bosch Compress 7000iAW 7 OR and IR, Compress 6000 AW-7, Bosch CS7400iAW 5, Bosch CS7001iAW 7	Reg. No.	011-1W0123
Certificate Holder			
Name	Bosch Thermotechnik GmbH		
Address	Junkersstraße 20 - 24	Zip	73249
City	Wernau	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Bosch Compress 7000iAW 7 OR and IR, Compress 6000 AW-7, Bosch CS7400iAW 5, Bosch CS7001iAW 7		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.75 kg		
Certification Date	18.07.2017		
Testing basis	HP KEYMARK certification scheme rules rev. 8		

Model: Bosch CS7000iAW 7 IRMS-S

Configure model	
Model name	Bosch CS7000iAW 7 IRMS-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.34 kW
El input	0.46 kW	0.87 kW
COP	4.96	2.67

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	255 %	163 %
Prated	5.77 kW	5.08 kW
SCOP	6.45	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.77 kW	5.08 kW
COP Tj = +2°C	2.91	2.09
Pdh Tj = +7°C	3.39 kW	3.55 kW
COP Tj = +7°C	5.70	3.62
Pdh Tj = 12°C	1.79 kW	2.42 kW
COP Tj = 12°C	8.45	5.56
Pdh Tj = Tbiv	5.77 kW	5.08 kW
COP Tj = Tbiv	2.91	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.77 kW	5.08 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.09
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1195 kWh	1631 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	128 %
Prated	5.27 kW	4.82 kW
SCOP	4.27	3.28

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-16 °C	-15 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	3.20 kW	2.91 kW
COP Tj = -7°C	3.17	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.14 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	3.89 kW
COP Tj = Tbiv	2.43	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.07	1.64
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.27 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	3040 kWh	3621 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.44	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	184 %	140 %
P_{rated}	5.18 kW	4.20 kW
SCOP	4.68	3.57
T_{biv}	-10°C	-10°C
TOL	-10°C	-10°C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.67 kW	3.86 kW
$COP T_j = -7^{\circ}\text{C}$	2.95	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.81 kW	2.38 kW
$COP T_j = +2^{\circ}\text{C}$	4.26	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.43
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.06	5.56
Pdh Tj = Tbiv	5.18 kW	4.20 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.18 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2289 kWh	2431 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	109 %
COP	2.58
Heating up time	02:34 h:min
Standby power input	47.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	257 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.21
Heating up time	04:09 h:min
Standby power input	73.0 W
Reference hot water temperature	51.8 °C
Mixed water at 40°C	259 l

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.43
Heating up time	03:18 h:min
Standby power input	53.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	263 l

Model: Bosch CS7000iAW 7 IRM-S

Configure model	
Model name	Bosch CS7000iAW 7 IRM-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.34 kW
El input	0.46 kW	0.87 kW
COP	4.96	2.67

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	255 %	163 %
Prated	5.77 kW	5.08 kW
SCOP	6.45	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.77 kW	5.08 kW
COP Tj = +2°C	2.91	2.09
Pdh Tj = +7°C	3.39 kW	3.55 kW
COP Tj = +7°C	5.70	3.62
Pdh Tj = 12°C	1.79 kW	2.42 kW
COP Tj = 12°C	8.45	5.56
Pdh Tj = Tbiv	5.77 kW	5.08 kW
COP Tj = Tbiv	2.91	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.77 kW	5.08 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.09
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1195 kWh	1631 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	128 %
Prated	5.27 kW	4.82 kW
SCOP	4.27	3.28

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-16 °C	-15 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	3.20 kW	2.91 kW
COP Tj = -7°C	3.17	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.14 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	3.89 kW
COP Tj = Tbiv	2.43	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.07	1.64
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.27 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	3040 kWh	3621 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.44	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	184 %	140 %
P_{rated}	5.18 kW	4.20 kW
SCOP	4.68	3.57
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.67 kW	3.86 kW
$COP T_j = -7^{\circ}\text{C}$	2.95	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.81 kW	2.38 kW
$COP T_j = +2^{\circ}\text{C}$	4.26	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.43
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.06	5.56
Pdh Tj = Tbiv	5.18 kW	4.20 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.18 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2289 kWh	2431 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	119 %
COP	2.80
Heating up time	02:31 h:min
Standby power input	45.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	271 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.26
Heating up time	04:04 h:min
Standby power input	64.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	271 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	2.48
Heating up time	03:14 h:min
Standby power input	51.0 W
Reference hot water temperature	54.3 °C
Mixed water at 40°C	273 l

Model: Bosch CS7000iAW 7 IRB-S

Configure model

Model name	Bosch CS7000iAW 7 IRB-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.29 kW	2.34 kW
El input	0.46 kW	0.87 kW
COP	4.96	2.67

EN 14511-4

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	255 %	163 %
Prated	5.77 kW	5.08 kW
SCOP	6.45	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.77 kW	5.08 kW
COP Tj = +2°C	2.91	2.09
Pdh Tj = +7°C	3.39 kW	3.55 kW
COP Tj = +7°C	5.70	3.62
Pdh Tj = 12°C	1.79 kW	2.42 kW
COP Tj = 12°C	8.45	5.56
Pdh Tj = Tbiv	5.77 kW	5.08 kW
COP Tj = Tbiv	2.91	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.77 kW	5.08 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.09
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1195 kWh	1631 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	128 %
Prated	5.27 kW	4.82 kW
SCOP	4.27	3.28

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-16 °C	-15 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	3.20 kW	2.91 kW
COP Tj = -7°C	3.17	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.14 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	3.89 kW
COP Tj = Tbiv	2.43	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.07	1.64
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	3040 kWh	3621 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.44	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	184 %	140 %
P_{rated}	5.18 kW	4.20 kW
SCOP	4.68	3.57
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.67 kW	3.86 kW
$COP T_j = -7^{\circ}\text{C}$	2.95	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.81 kW	2.38 kW
$COP T_j = +2^{\circ}\text{C}$	4.26	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.43
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.06	5.56
Pdh Tj = Tbiv	5.18 kW	4.20 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.18 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2289 kWh	2431 kWh

Model: Bosch CS7000iAW 7 IRE-S

Configure model

Model name	Bosch CS7000iAW 7 IRE-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.29 kW	2.34 kW
El input	0.46 kW	0.87 kW
COP	4.96	2.67

EN 14511-4

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	255 %	163 %
Prated	5.77 kW	5.08 kW
SCOP	6.45	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.77 kW	5.08 kW
COP Tj = +2°C	2.91	2.09
Pdh Tj = +7°C	3.39 kW	3.55 kW
COP Tj = +7°C	5.70	3.62
Pdh Tj = 12°C	1.79 kW	2.42 kW
COP Tj = 12°C	8.45	5.56
Pdh Tj = Tbiv	5.77 kW	5.08 kW
COP Tj = Tbiv	2.91	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.77 kW	5.08 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.91	2.09
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1195 kWh	1631 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	128 %
Prated	5.27 kW	4.82 kW
SCOP	4.27	3.28

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-16 °C	-15 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	3.20 kW	2.91 kW
COP Tj = -7°C	3.17	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.14 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	3.89 kW
COP Tj = Tbiv	2.43	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.07	1.64
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.27 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	3040 kWh	3621 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.44	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	184 %	140 %
P_{rated}	5.18 kW	4.20 kW
SCOP	4.68	3.57
T_{biv}	-10°C	-10°C
TOL	-10°C	-10°C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.67 kW	3.86 kW
$COP T_j = -7^{\circ}\text{C}$	2.95	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.81 kW	2.38 kW
$COP T_j = +2^{\circ}\text{C}$	4.26	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.43
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.06	5.56
Pdh Tj = Tbiv	5.18 kW	4.20 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.18 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2289 kWh	2431 kWh

Model: Bosch CS7000iAW 7 ORMS-S

Configure model	
Model name	Bosch CS7000iAW 7 ORMS-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	109 %
COP	2.58
Heating up time	02:34 h:min
Standby power input	47.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	257 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.21
Heating up time	04:09 h:min
Standby power input	73.0 W
Reference hot water temperature	51.2 °C
Mixed water at 40°C	259 l

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.43
Heating up time	03:18 h:min
Standby power input	53.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	263 l

Model: Bosch CS7000iAW 7 ORM-S

Configure model	
Model name	Bosch CS7000iAW 7 ORM-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
P_{rated}	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	119 %
COP	2.79
Heating up time	02:31 h:min
Standby power input	45.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	271 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.26
Heating up time	04:04 h:min
Standby power input	64.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	271 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	2.48
Heating up time	03:14 h:min
Standby power input	51.0 W
Reference hot water temperature	54.3 °C
Mixed water at 40°C	273 l

Model: Bosch CS7000iAW 7 ORB-S

Configure model	
Model name	Bosch CS7000iAW 7 ORB-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
P_{rated}	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch CS7000iAW 7 ORE-S

Configure model	
Model name	Bosch CS7000iAW 7 ORE-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch Compress 6000 AW-7 AWB

Configure model	
Model name	Bosch Compress 6000 AW-7 AWB
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
P_{rated}	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch Compress 6000 AW-7 AWM

Configure model	
Model name	Bosch Compress 6000 AW-7 AWM
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
P_{rated}	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	119 %
COP	2.79
Heating up time	02:31 h:min
Standby power input	45.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	271 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.26
Heating up time	04:04 h:min
Standby power input	64.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	271 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	2.48
Heating up time	03:14 h:min
Standby power input	51.0 W
Reference hot water temperature	54.3 °C
Mixed water at 40°C	273 l

Model: Bosch Compress 6000 AW-7 AWMS

Configure model	
Model name	Bosch Compress 6000 AW-7 AWMS
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	109 %
COP	2.58
Heating up time	02:34 h:min
Standby power input	47.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	257 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.21
Heating up time	04:09 h:min
Standby power input	73.0 W
Reference hot water temperature	51.2 °C
Mixed water at 40°C	259 l

Average Climate

This information was generated by the HP KEYMARK database on 22 Jun 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.43
Heating up time	03:18 h:min
Standby power input	53.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	263 l

Model: Bosch Compress 6000 AW-7 AWE

Configure model	
Model name	Bosch Compress 6000 AW-7 AWE
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
P_{rated}	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch CS7400iAW 5 ORB

Configure model	
Model name	Bosch CS7400iAW 5 ORB
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.82 kW	1.78 kW
El input	0.56 kW	0.69 kW
COP	5.01	2.57

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	240 %	163 %
Prated	5.50 kW	5.40 kW
SCOP	6.07	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	5.40 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1211 kWh	1736 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %
Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.11	1.56
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	2482 kWh	3252 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	3.75	3.53
COP T _j = -15°C (if TOL<-20°C)	2.29	1.64
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.98	3.40
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW
COP Tj = Tbiv	2.68	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1975 kWh	2724 kWh

Model: Bosch CS7400iAW 5 ORE

Configure model	
Model name	Bosch CS7400iAW 5 ORE
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.82 kW	1.78 kW
El input	0.56 kW	0.69 kW
COP	5.01	2.57

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	240 %	163 %
Prated	5.50 kW	5.40 kW
SCOP	6.07	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	5.40 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1211 kWh	1736 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %
Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.11	1.56
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.30 kW	4.00 kW
Annual energy consumption Q _{he}	2482 kWh	3252 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	3.75	3.53
COP T _j = -15°C (if TOL<-20°C)	2.29	1.64
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.98	3.40
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW
COP Tj = Tbiv	2.68	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1975 kWh	2724 kWh

Model: Bosch CS7400iAW 5 ORM

Configure model

Model name	Bosch CS7400iAW 5 ORM
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.82 kW	1.78 kW
El input	0.56 kW	0.69 kW
COP	5.01	2.57

EN 14511-4

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	240 %	163 %
Prated	5.50 kW	5.40 kW
SCOP	6.07	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	5.40 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1211 kWh	1736 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %
Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.11	1.56
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.30 kW	4.00 kW
Annual energy consumption Q _{he}	2482 kWh	3252 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	3.75	1.64
COP T _j = -15°C (if TOL<-20°C)	2.29	1.64
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.98	3.40
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW
COP Tj = Tbiv	2.68	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1975 kWh	2724 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	119 %
COP	2.80
Heating up time	02:49 h:min
Standby power input	47.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	261 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	84 %
COP	1.96
Heating up time	04:11 h:min
Standby power input	66.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	279 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	100 %
COP	2.36
Heating up time	03:34 h:min
Standby power input	52.0 W
Reference hot water temperature	53.5 °C
Mixed water at 40°C	271 l

Model: Bosch CS7400iAW 5 ORMS

Configure model	
Model name	Bosch CS7400iAW 5 ORMS
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.82 kW	1.78 kW
El input	0.56 kW	0.69 kW
COP	5.01	2.57

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	240 %	163 %
Prated	5.50 kW	5.40 kW
SCOP	6.07	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	5.40 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1211 kWh	1736 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %
Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.11	1.56
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.30 kW	4.00 kW
Annual energy consumption Q _{he}	2482 kWh	3252 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	3.75	1.64
COP T _j = -15°C (if TOL<-20°C)	2.29	1.64
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.98	3.40
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.27 kW	3.93 kW
COP Tj = -7°C	3.11	2.11
Pdh Tj = +2°C	2.51 kW	2.41 kW
COP Tj = +2°C	4.96	3.36
Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW
COP Tj = Tbiv	2.68	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1975 kWh	2724 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	2.58
Heating up time	02:45 h:min
Standby power input	49.0 W
Reference hot water temperature	51.7 °C
Mixed water at 40°C	247 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	80 %
COP	1.88
Heating up time	04:05 h:min
Standby power input	67.0 W
Reference hot water temperature	51.7 °C
Mixed water at 40°C	259 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	98 %
COP	2.31
Heating up time	03:12 h:min
Standby power input	54.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	261 l

Model: Bosch CS7001iAW 7 ORM-S

Configure model	
Model name	Bosch CS7001iAW 7 ORM-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW
Annual energy consumption Q _{he}	2781 kWh	3575 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	4.15	1.97
COP T _j = -15°C (if TOL<-20°C)	2.68	1.97
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.26 kW
COP Tj = -7°C	3.08	2.24
Pdh Tj = +2°C	2.92 kW	2.57 kW
COP Tj = +2°C	5.00	3.66
Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	119 %
COP	2.79
Heating up time	02:31 h:min
Standby power input	45.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	271 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	97 %
COP	2.26
Heating up time	04:04 h:min
Standby power input	64.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	271 l

Average Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	2.48
Heating up time	03:14 h:min
Standby power input	51.0 W
Reference hot water temperature	54.3 °C
Mixed water at 40°C	273 l

Model: Bosch CS7001iAW 7 ORMS-S

Configure model	
Model name	Bosch CS7001iAW 7 ORMS-S
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW
Annual energy consumption Q _{he}	2781 kWh	3575 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	4.15	1.97
COP T _j = -15°C (if TOL<-20°C)	2.68	1.97
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	25 dB(A)	25 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.26 kW
COP Tj = -7°C	3.08	2.24
Pdh Tj = +2°C	2.92 kW	2.57 kW
COP Tj = +2°C	5.00	3.66
Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	109 %
COP	2.58
Heating up time	02:34 h:min
Standby power input	47.0 W
Reference hot water temperature	52.8 °C
Mixed water at 40°C	257 l

Colder Climate

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	95 %
COP	2.21
Heating up time	04:09 h:min
Standby power input	73.0 W
Reference hot water temperature	51.2 °C
Mixed water at 40°C	259 l

Average Climate

EN 16147

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	103 %
COP	2.43
Heating up time	03:18 h:min
Standby power input	53.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	263 l

Model: Bosch CS7001iAW 7 ORE-S

Configure model

Model name	Bosch CS7001iAW 7 ORE-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

EN 14511-4

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Cdh Tj = -7 °C		
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW
Annual energy consumption Q _{he}	2781 kWh	3575 kWh
P _{dh} T _j = -15°C (if TOL<-20°C)	4.15	1.97
COP T _j = -15°C (if TOL<-20°C)	2.68	1.97
C _{dh} T _j = -15 °C		

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T _{biv}	-10 °C	-10 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.26 kW
COP Tj = -7°C	3.08	2.24
Pdh Tj = +2°C	2.92 kW	2.57 kW
COP Tj = +2°C	5.00	3.66
Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch CS7001iAW 7 ORB-S

Configure model

Model name	Bosch CS7001iAW 7 ORB-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	1x230V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

EN 14511-4

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
P_{rated}	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.00	1.00
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch GCH7000iFAW 7 O

Configure model	
Model name	Bosch GCH7000iFAW 7 O
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.03 kW	7.41 kW
El input	2.4 kW	2.82 kW
COP	3.76	2.62

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	24 dB(A)	24 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	210 %	164 %
Prated	6.54 kW	6.10 kW
SCOP	5.31	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.54 kW	6.1 kW
COP Tj = +2°C	3.04	2.33
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.02 kW	4.07 kW
COP Tj = +7°C	5.03	3.47
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.77 kW	2.49 kW
COP Tj = 12°C	6.36	5.71
Cdh Tj = +12 °C	1.000	0.950

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = Tbiv	6.54 kW	6.1 kW
COP Tj = Tbiv	3.04	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.54 kW	6.1 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.04	2.33
WTOL	62 °C	62 °C
Poff	7 W	7 W
PTO	6 W	6 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1645 kWh	1957 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	24 dB(A)	24 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 22 Jun 2022

η_s	152 %	122 %
Prated	5.35 kW	5.29 kW
SCOP	3.87	3.13
Tbiv	-17 °C	-15 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.19 kW	3.21 kW
COP Tj = -7°C	3.32	2.52
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	1.18 kW	1.78 kW
COP Tj = +2°C	4.59	3.71
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.18 kW	2.13 kW
COP Tj = +7°C	5.00	5.01
Cdh Tj = +7 °C	1.000	0.950
Pdh Tj = 12°C	1.36 kW	2.58 kW
COP Tj = 12°C	6.19	6.89
Cdh Tj = +12 °C	0.900	0.940
Pdh Tj = Tbiv	4.39 kW	4.32 kW
COP Tj = Tbiv	2.31	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	1.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.54

This information was generated by the HP KEYMARK database on 22 Jun 2022

WTOL	62 °C	62 °C
Poff	7 W	7 W
PTO	6 W	6 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.28 kW	3.52 kW
Annual energy consumption Qhe	3405 kWh	4162 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	24 dB(A)	24 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	169 %	133 %
Prated	5.39 kW	6.25 kW
SCOP	4.31	3.4
Tbiv	-10 °C	-7 °C

This information was generated by the HP KEYMARK database on 22 Jun 2022

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.55 kW	5.53 kW
COP Tj = -7°C	2.96	2.02
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.63 kW	3.53 kW
COP Tj = +2°C	4.34	3.31
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	1.75 kW	2.13 kW
COP Tj = +7°C	5.24	4.55
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	1.36 kW	2.54 kW
COP Tj = 12°C	6.25	6.41
Cdh Tj = +12 °C	0.900	0.940
Pdh Tj = Tbiv	5.39 kW	5.53 kW
COP Tj = Tbiv	2.56	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.39 kW	4.61 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	1.93
WTOL	62 °C	62 °C
Poff	7 W	7 W
PTO	6 W	6 W
PSB	17 W	17 W

This information was generated by the HP KEYMARK database on 22 Jun 2022

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0 kW	1.6 kW
Annual energy consumption Q _{he}	2586 kWh	3800 kWh

Model: Bosch CSH7000iAW 7 OR

Configure model	
Model name	Bosch CSH7000iAW 7 OR
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.40 kW
El input	0.43 kW	0.88 kW
COP	5.27	2.75

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	261 %	175 %
Prated	6.27 kW	5.60 kW
SCOP	6.59	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	3.05	2.19
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.70	3.86
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	8.77	5.94
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	3.05	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.05	2.19
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1270 kWh	1683 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	178 %	130 %
Prated	5.11 kW	4.82 kW
SCOP	4.53	3.32

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.61	2.72
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.73	4.24
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	7.41	5.03
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	8.16	6.52
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.43	1.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.25	1.65
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2781 kWh	3575 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	1.97
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.68	1.97

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	202 %	143 %
Prated	5.43 kW	4.56 kW
SCOP	5.13	3.65
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.91 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	3.08	2.24
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	5.00	3.66

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.99	4.68
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	8.38	6.14
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.64	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.89
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2190 kWh	2580 kWh

Model: Bosch CSH7400iAW 5 OR

Configure model	
Model name	Bosch CSH7400iAW 5 OR
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.82 kW	1.78 kW
El input	0.56 kW	0.69 kW
COP	5.01	2.57

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	240 %	163 %
Prated	5.50 kW	5.40 kW
SCOP	6.07	4.16
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	3.03	2.10
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	5.16	3.57
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	8.06	5.53
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	3.03	2.10
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	5.40 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.03	2.10
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1211 kWh	1736 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	168 %	118 %
Prated	4.30 kW	4.00 kW
SCOP	4.27	3.03

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.64	2.52
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	5.22	3.82
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	6.44	4.68
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	7.03	6.02
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.29	1.64
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.11	1.56
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2482 kWh	3252 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	3.75	1.64
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.29	1.64

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	196 %	133 %
Prated	4.76 kW	4.49 kW
SCOP	4.98	3.40
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.27 kW	3.93 kW
$COP T_j = -7^{\circ}\text{C}$	3.11	2.11
$P_{dh} T_j = +2^{\circ}\text{C}$	2.51 kW	2.41 kW
$COP T_j = +2^{\circ}\text{C}$	4.96	3.36

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	6.40	4.41
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	7.53	5.76
Pdh Tj = Tbiv	4.76 kW	4.49 kW
COP Tj = Tbiv	2.68	1.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.82
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1975 kWh	2724 kWh

Model: Bosch CS7400iAW 5 ORMB

Configure model

Model name	Bosch CS7400iAW 5 ORMB
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data

Power supply	3x400V 50Hz
--------------	-------------

Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	2.82 kW	1.78 kW
El input	0.59 kW	0.71 kW
COP	4.76	2.49

EN 14511-4

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	223 %	158 %
Prated	5.50 kW	5.40 kW
SCOP	5.65	4.01
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.48 kW	5.40 kW
COP Tj = +2°C	2.93	2.07
Pdh Tj = +7°C	3.81 kW	3.56 kW
COP Tj = +7°C	4.91	3.48
Pdh Tj = 12°C	1.71 kW	2.44 kW
COP Tj = 12°C	7.26	5.26
Pdh Tj = Tbiv	5.48 kW	5.40 kW
COP Tj = Tbiv	2.93	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	5.40 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.93	2.07
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	1301 kWh	1797 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	157 %	113 %
Prated	4.30 kW	4.00 kW
SCOP	4.00	2.90

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-18 °C
Pdh Tj = -7°C	2.50 kW	2.29 kW
COP Tj = -7°C	3.50	2.46
Pdh Tj = +2°C	1.49 kW	1.80 kW
COP Tj = +2°C	4.84	3.65
Pdh Tj = +7°C	1.14 kW	2.08 kW
COP Tj = +7°C	5.73	4.46
Pdh Tj = 12°C	1.24 kW	2.48 kW
COP Tj = 12°C	6.26	5.71
Pdh Tj = Tbiv	3.75 kW	3.53 kW
COP Tj = Tbiv	2.24	1.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.44 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.07	1.54
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.30 kW	4.00 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2650 kWh	3405 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	3.75	3.53
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.24	1.62

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	183 %	127 %
Prated	4.76 kW	4.49 kW
SCOP	4.66	3.26
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.27 kW	3.94 kW
$COP T_j = -7^{\circ}\text{C}$	3.02	2.08
$P_{dh} T_j = +2^{\circ}\text{C}$	2.51 kW	2.41 kW
$COP T_j = +2^{\circ}\text{C}$	4.70	3.26

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.51 kW	2.06 kW
COP Tj = +7°C	5.85	4.21
Pdh Tj = 12°C	1.27 kW	2.45 kW
COP Tj = 12°C	6.67	5.47
Pdh Tj = Tbiv	4.76 kW	4.49 kW
COP Tj = Tbiv	2.62	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.76 kW	4.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.62	1.80
WTOL	60 °C	60 °C
Poff	17 W	17 W
PTO	22 W	22 W
PSB	17 W	17 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	2112 kWh	2843 kWh

Model: Bosch CS7001iAW 7 ORMB-S

Configure model	
Model name	Bosch CS7001iAW 7 ORMB-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.28 kW	2.40 kW
El input	0.46 kW	0.90 kW
COP	4.96	2.68

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	241 %	167 %
Prated	6.27 kW	5.60 kW
SCOP	6.11	4.25
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.27 kW	5.60 kW
COP Tj = +2°C	2.95	2.16
Pdh Tj = +7°C	4.09 kW	3.77 kW
COP Tj = +7°C	5.41	3.76
Pdh Tj = 12°C	1.79 kW	2.54 kW
COP Tj = 12°C	7.85	5.64
Pdh Tj = Tbiv	6.27 kW	5.60 kW
COP Tj = Tbiv	2.95	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.27 kW	5.60 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	2.16
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1371 kWh	1762 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	167 %	125 %
Prated	5.11 kW	4.82 kW
SCOP	4.26	3.20

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-17 °C	-17 °C
TOL	-20 °C	-19 °C
Pdh Tj = -7°C	3.20 kW	3.01 kW
COP Tj = -7°C	3.49	2.66
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.32	4.05
Pdh Tj = +7°C	1.19 kW	2.15 kW
COP Tj = +7°C	6.54	4.78
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	7.19	6.16
Pdh Tj = Tbiv	4.45 kW	4.20 kW
COP Tj = Tbiv	2.38	1.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.07 kW	3.39 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.62
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.11 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	2956 kWh	3715 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	3.89
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.62	1.94

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)
Sound power level outdoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	189 %	137 %
Prated	5.43 kW	4.56 kW
SCOP	4.81	3.50
T_{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.90 kW	4.26 kW
$COP T_j = -7^{\circ}\text{C}$	2.99	2.21
$P_{dh} T_j = +2^{\circ}\text{C}$	2.92 kW	2.57 kW
$COP T_j = +2^{\circ}\text{C}$	4.74	3.55

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.41	4.47
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	7.37	5.82
Pdh Tj = Tbiv	5.43 kW	4.56 kW
COP Tj = Tbiv	2.58	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.43 kW	4.56 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.87
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	4 W	4 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2335 kWh	2689 kWh

Model: Bosch CS7000iAW 7 IRMB-S

Configure model	
Model name	Bosch CS7000iAW 7 IRMB-S
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	2.29 kW	2.34 kW
El input	0.49 kW	0.90 kW
COP	4.69	2.59

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

Warmer Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	237 %	156 %
Prated	5.77 kW	5.08 kW
SCOP	6.00	3.98
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.77 kW	5.08 kW
COP Tj = +2°C	2.83	2.06
Pdh Tj = +7°C	3.39 kW	3.55 kW
COP Tj = +7°C	5.39	3.53
Pdh Tj = 12°C	1.79 kW	2.42 kW
COP Tj = 12°C	7.60	5.29
Pdh Tj = Tbiv	5.77 kW	5.08 kW
COP Tj = Tbiv	2.83	2.06
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.77 kW	5.08 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.83	2.06
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	1285 kWh	1704 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	158 %	122 %
Prated	5.27 kW	4.82 kW
SCOP	4.03	3.14

This information was generated by the HP KEYMARK database on 22 Jun 2022

Tbiv	-16 °C	-16 °C
TOL	-20 °C	-17 °C
Pdh Tj = -7°C	3.20 kW	2.91 kW
COP Tj = -7°C	3.07	2.66
Pdh Tj = +2°C	1.80 kW	1.91 kW
COP Tj = +2°C	5.33	4.05
Pdh Tj = +7°C	1.14 kW	2.15 kW
COP Tj = +7°C	6.53	4.79
Pdh Tj = 12°C	1.31 kW	2.61 kW
COP Tj = 12°C	7.20	6.16
Pdh Tj = Tbiv	4.45 kW	3.93 kW
COP Tj = Tbiv	2.38	1.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.62
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.27 kW	4.82 kW

This information was generated by the HP KEYMARK database on 22 Jun 2022

Annual energy consumption Q_{he}	3222 kWh	3787 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	4.15	3.89
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.38	1.94

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	173 %	134 %
P_{rated}	5.17 kW	4.20 kW
SCOP	4.41	3.44
T_{biv}	-10°C	-10°C
TOL	-10°C	-10°C
$P_{dh} T_j = -7^{\circ}\text{C}$	4.67 kW	3.86 kW
$COP T_j = -7^{\circ}\text{C}$	2.87	2.21
$P_{dh} T_j = +2^{\circ}\text{C}$	2.81 kW	2.38 kW
$COP T_j = +2^{\circ}\text{C}$	5.33	3.56

This information was generated by the HP KEYMARK database on 22 Jun 2022

Pdh Tj = +7°C	1.84 kW	2.11 kW
COP Tj = +7°C	6.40	4.26
Pdh Tj = 12°C	1.33 kW	2.56 kW
COP Tj = 12°C	7.13	5.35
Pdh Tj = Tbiv	5.18 kW	4.20 kW
COP Tj = Tbiv	2.58	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.18 kW	4.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.58	1.88
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 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	2421 kWh	2525 kWh