

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

[Login](#)

Summary of	CHA-Monoblock 16	Reg. No.	011-1W0514
Certificate Holder			
Name	WOLF GmbH		
Address	Industriestr. 1	Zip	84048
City	Mainburg	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	CHA-Monoblock 16		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	3.8 kg		
Certification Date	30.11.2021		
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 9 (as of 2021-03)		

Model: CHA-16/20-400V-M2 CS-C2

Configure model	
Model name	CHA-16/20-400V-M2 CS-C2
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.21 kW	7.26 kW
El input	1.27 kW	2.32 kW
COP	5.68	3.13

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	209 %	154 %
Prated	15.00 kW	14.40 kW
SCOP	5.30	3.94
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.27 kW	12.74 kW
COP Tj = -7°C	3.02	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.08 kW	7.75 kW
COP Tj = +2°C	5.32	3.91
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.19 kW	4.98 kW
COP Tj = +7°C	7.03	5.15
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.31 kW	2.22 kW

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

COP Tj = 12°C	8.43	6.47
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.00 kW	14.40 kW
COP Tj = Tbiv	2.78	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.00 kW	14.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	35 °C	55 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 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	5842 kWh	7553 kWh

Model: CHA-16/20-400V-M2 CS-e9-C2

Configure model	
Model name	CHA-16/20-400V-M2 CS-e9-C2
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.21 kW	7.26 kW
El input	1.27 kW	2.32 kW
COP	5.68	3.13

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

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	209 %	154 %
Prated	15.00 kW	14.40 kW
SCOP	5.30	3.94
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	13.27 kW	12.74 kW
COP Tj = -7°C	3.02	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.08 kW	7.75 kW
COP Tj = +2°C	5.32	3.91
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.19 kW	4.98 kW
COP Tj = +7°C	7.03	5.15
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	2.31 kW	2.22 kW

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

COP Tj = 12°C	8.43	6.47
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.00 kW	14.40 kW
COP Tj = Tbiv	2.78	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.00 kW	14.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	35 °C	55 °C
Poff	25 W	25 W
PTO	25 W	25 W
PSB	25 W	25 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	5842 kWh	7553 kWh