

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

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Summary of	CHA-07/400V	Reg. No.	011-1W380
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-07/400V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	3.1 kg		
Certification Date	30.06.2020		

## Model: CHA-07/400V

Configure model	
Model name	CHA-07/400V
Application	Heating (medium temp)
Units	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	4.50 kW	4.45 kW
El input	0.82 kW	1.39 kW
COP	5.47	3.10

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

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	52 dB(A)	52 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	249 %	179 %
Prated	5.70 kW	5.89 kW
SCOP	6.30	4.54
Tbiv	2 °C	2 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	5.70 kW	5.89 kW
COP Tj = +2°C	3.85	2.43
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	3.84 kW	4.02 kW
COP Tj = +7°C	6.16	3.98
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.32 kW	2.29 kW
COP Tj = 12°C	7.17	5.77
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.70 kW	5.89 kW

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COP $T_j = T_{biv}$	3.85	2.43
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	5.70 kW	5.89 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	3.85	2.43
WTOL	35 °C	55 °C
Poff	13 W	13 W
PTO	15 W	15 W
PSB	15 W	15 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 $Q_{he}$	1208 kWh	4215 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level outdoor	52 dB(A)	52 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	174 %	127 %
Prated	6.16 kW	5.57 kW

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SCOP	4.43	3.26
Tbiv	-17 °C	-17 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.71 kW	3.70 kW
COP Tj = -7°C	3.85	2.69
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.25 kW	2.25 kW
COP Tj = +2°C	5.28	3.95
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.33 kW	2.29 kW
COP Tj = +7°C	6.52	5.27
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	2.27 kW	2.41 kW
COP Tj = 12°C	6.83	6.27
Cdh Tj = +12 °C	0.95	0.96
Pdh Tj = Tbiv	5.35 kW	4.84 kW
COP Tj = Tbiv	2.45	1.63
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.55 kW	4.09 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.09	1.28
WTOL	35 °C	55 °C
Poff	13 W	13 W

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PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.61 kW	1.48 kW
Annual energy consumption Q <sub>he</sub>	3428 kWh	4215 kWh
P <sub>dh</sub> T <sub>j</sub> = -15°C (if TOL<-20°C)	4.78	4.99
COP T <sub>j</sub> = -15°C (if TOL<-20°C)	2.74	1.99
C <sub>dh</sub> T <sub>j</sub> = -15 °C	0.90	0.90

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level outdoor	52 dB(A)	52 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	194 %	148 %
Prated	5.59 kW	5.93 kW
SCOP	4.92	3.77
T <sub>biv</sub>	-10 °C	-10 °C

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TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.29 kW	5.62 kW
COP Tj = -7°C	2.95	2.22
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.20 kW	3.46 kW
COP Tj = +2°C	5.08	3.68
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.29 kW	2.25 kW
COP Tj = +7°C	6.27	5.11
Cdh Tj = +7 °C	0.96	0.90
Pdh Tj = 12°C	2.33 kW	2.60 kW
COP Tj = 12°C	6.85	6.43
Cdh Tj = +12 °C	0.96	0.96
Pdh Tj = Tbiv	5.59 kW	5.93 kW
COP Tj = Tbiv	2.55	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.59 kW	5.93 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.86
WTOL	35 °C	55 °C
Poff	13 W	13 W
PTO	15 W	15 W
PSB	15 W	15 W

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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 Q <sub>he</sub>	2346 kWh	3249 kWh