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Login

Summary of	CHA-10/400V	Reg. No.	011-1W0381
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-10/400V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	3.4 kg		
Certification Date	30.06.2020		



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Model: CHA-10/400V

Configure model		
Model name	CHA-10/400V	
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	4.10 kW	3.99 kW		
El input	0.75 kW	1.29 kW		
СОР	5.54	3.09		

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

Average Climate



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EN 12102-1			
Low temperature Medium temperature			
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825				
Low temperature Medium temperature				
η_{s}	191 %	141 %		
Prated	7.58 kW	7.40 kW		
SCOP	4.86	3.60		
Tbiv	-10 °C	-10 °C		
TOL	-22 °C	-22 °C		
Pdh Tj = -7°C	7.25 kW	7.03 kW		
COP Tj = -7°C	2.92	2.09		
Cdh Tj = -7 °C	0.90	0.90		
Pdh Tj = +2°C	4.33 kW	4.28 kW		
COP Tj = +2°C	4.69	3.45		
Cdh Tj = +2 °C	0.90	0.90		
Pdh Tj = +7°C	3.72 kW	3.54 kW		
COP Tj = +7°C	6.89	5.07		
Cdh Tj = +7 °C	0.97	0.98		
Pdh Tj = 12°C	3.75 kW	4.09 kW		

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





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Electricity

0.00 kW

3225 kWh

Electricity

0.00 kW

4255 kWh

Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

Supplementary Heater: Type of energy input

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature





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This information was general	,	
η_{s}	272 %	185 %
Prated	8.57 kW	8.64 kW
SCOP	6.88	4.71
Tbiv	2 °C	2 °C
TOL	-22 °C	-22 °C
Pdh Tj = +2°C	8.57 kW	8.64 kW
COP Tj = +2°C	3.51	2.40
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	5.99 kW	5.93 kW
COP Tj = +7°C	6.41	4.14
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	4.14 kW	3.82 kW
COP Tj = 12°C	8.36	5.99
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	8.57 kW	8.64 kW
COP Tj = Tbiv	3.51	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.57 kW	8.64 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.40
WTOL	35 °C	55 °C
Poff	13 W	13 W





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РТО	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 Qhe	1665 kWh	2451 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	53 dB(A)	53 dB(A)	

EN 14825			
	Low temperature	e Medium temperature	
η_{s}	177 %	135 %	
Prated	8.78 kW	8.17 kW	
SCOP	4.50	3.44	
Tbiv	-17 °C	-17 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	5.32 kW	5.44 kW	
COP Tj = -7°C	4.00	2.84	





This information was genera		
Cdh Tj = -7 °C	0.90	0.90
Pdh Tj = $+2$ °C	3.36 kW	3.30 kW
$COPTj = +2^{\circ}C$	5.10	4.25
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	3.73 kW	3.61 kW
$COP Tj = +7^{\circ}C$	7.24	5.52
Cdh Tj = $+7$ °C	0.97	0.98
Pdh Tj = 12°C	4.03 kW	3.90 kW
COP Tj = 12°C	7.70	6.57
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	7.62 kW	7.09 kW
COP Tj = Tbiv	2.47	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	5.95 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.35
WTOL	35 °C	55 °C
Poff	13 W	13 W
РТО	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	2.08 kW	2.22 kW



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Annual energy consumption Qhe	4812 kWh	5852 kWh
Pdh Tj = -15°C (if TOL<-20°C)	7.10	7.28
COP Tj = -15°C (if TOL $<$ -20°C)	2.77	1.99
Cdh Tj = -15 °C	0.90	0.90