

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	TTF 7 basic	Reg. No.	011-1W0045
Certificate Holder			
Name	tecalor GmbH		
Address	Fürstenbergerstr. 77	Zip	37603
City	Holzminen	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	VDE Prüf- und Zertifizierungsinstitut		
Subtype title	TTF 7 basic		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2 kg		
Certification Date	28.10.2016		

Model: TTF 7 basic, all climates

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature
Heat output	7.64 kW
El input	1.70 kW
COP	4.50
Indoor water flow rate	1.27 m ³ /h

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
Sound power level indoor	55 dB(A)

EN 14825

	Low temperature
η_s	192 %
Prated	8.00 kW
SCOP	5.01
Tbiv	-10 °C
TOL	-20 °C
Pdh Tj = -7°C	7.70 kW
COP Tj = -7°C	4.56
Cdh	0.90
Pdh Tj = +2°C	7.80 kW
COP Tj = +2°C	4.93
Cdh	0.90
Pdh Tj = +7°C	7.80 kW
COP Tj = +7°C	5.31
Cdh	0.90
Pdh Tj = 12°C	7.90 kW

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COP Tj = 12°C	5.74
Cdh	0.90
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	4.49
Pdh Tj = TOL	7.60 kW
COP Tj = TOL	4.49
WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	3153 kWh

Warmer Climate

EN 14825	
	Low temperature
η_s	191 %
Prated	8.00 kW
SCOP	4.97

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Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	7.60 kW
COP Tj = +2°C	4.49
Cdh	0.90
Pdh Tj = +7°C	7.70 kW
COP Tj = +7°C	4.85
Cdh	0.90
Pdh Tj = 12°C	7.90 kW
COP Tj = 12°C	5.45
Cdh	0.90
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	4.49
Pdh Tj = TOL	7.60 kW
COP Tj = TOL	4.49
WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity

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Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Q _{he}	2052 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	55 dB(A)

Colder Climate

EN 14825	
	Low temperature
η_s	200 %
Prated	10.00 kW
SCOP	5.20
T _{biv}	-15 °C
TOL	-22 °C
P _{dh} T _j = -7°C	7.80 kW
COP T _j = -7°C	5.13
C _{dh}	0.90
P _{dh} T _j = +2°C	7.90 kW
COP T _j = +2°C	5.42
C _{dh}	0.90

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Pdh Tj = +7°C	7.90 kW
COP Tj = +7°C	5.42
Cdh	0.90
Pdh Tj = 12°C	7.90 kW
COP Tj = 12°C	5.68
Cdh	0.90
Pdh Tj = Tbiv	7.80 kW
COP Tj = Tbiv	5.00
Pdh Tj = TOL	7.80 kW
COP Tj = TOL	5.00
WTOL	60 °C
Poff	0 W
PTO	78 W
PSB	3 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.89 kW
Annual energy consumption Qhe	4517 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.80
COP Tj = -15°C (if TOL<-20°C)	2.53
Cdh	0.90

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EN 12102-1	
	Low temperature
Sound power level indoor	55 dB(A)

Model: TTF 7 basic, average climates

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	7.64 kW	6.76 kW
El input	1.70 kW	2.67 kW
COP	4.50	2.53
Indoor water flow rate	1.27 m ³ /h	0.91 m ³ /h

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 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	192 %	122 %
Prated	8.00 kW	7.00 kW
SCOP	5.01	3.25
Tbiv	-10 °C	-10 °C
TOL	-20 °C	-10 °C
Pdh Tj = -7°C	7.70 kW	6.80 kW
COP Tj = -7°C	4.56	2.66
Cdh	0.90	0.90
Pdh Tj = +2°C	7.80 kW	7.10 kW
COP Tj = +2°C	4.93	3.19
Cdh	0.90	0.90
Pdh Tj = +7°C	7.80 kW	7.30 kW
COP Tj = +7°C	5.31	3.60
Cdh	0.90	0.90
Pdh Tj = 12°C	7.90 kW	7.50 kW

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COP Tj = 12°C	5.74	4.11
Cdh	0.90	0.90
Pdh Tj = Tbiv	7.60 kW	6.80 kW
COP Tj = Tbiv	4.49	2.53
Pdh Tj = TOL	7.60 kW	6.80 kW
COP Tj = TOL	4.49	2.53
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	78 W	78 W
PSB	3 W	3 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	3153 kWh	4298 kWh