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Login

Summary of	TTF 7 basic	Reg. No.	011-1W0045	
Certificate Holder				
Name	tecalor GmbH	tecalor GmbH		
Address	Fürstenbergerstr. 77	Zip	37603	
City	Holzminden	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	TTF 7 basic	TTF 7 basic		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	2 kg	2 kg		
Certification Date	28.10.2016	28.10.2016		



Model: TTF 7 basic, all climates

Configure model		
Model name	TTF 7 basic, all climates	
Application	Heating (low temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
Low temperature		
Heat output	7.64 kW	
El input	1.70 kW	
СОР	4.50	

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



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 Tj = -7 °C	0.90	
Pdh Tj = +2°C	7.80 kW	
COP Tj = +2°C	4.93	
Cdh Tj = +2 °C	0.90	
Pdh Tj = +7°C	7.80 kW	
COP Tj = +7°C	5.31	
Cdh Tj = +7 °C	0.90	
Pdh Tj = 12°C	7.90 kW	

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COP Tj = 12°C 5.74 Cdh Tj = +12 °C 0.90 Pdh Tj = Tbiv 7.60 kW COP Tj = Tbiv 4.49 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.60 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 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		
Pdh Tj = Tbiv 7.60 kW COP Tj = Tbiv 4.49 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.60 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 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	COP Tj = 12°C	5.74
COP Tj = Tbiv 4.49 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 7.60 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 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	Cdh Tj = +12 °C	0.90
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh WTOL 60 °C Poff 0 W PTO 78 W PSB 3 W PCK Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	Pdh Tj = Tbiv	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh WTOL 60 °C Poff 78 W PTO 78 W PSB 3 W PCK Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	COP Tj = Tbiv	4.49
WTOL Poff O W PTO 78 W PSB 3 W PCK Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP O.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW
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	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.49
PTO 78 W PSB 3 W PCK 0 W Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	WTOL	60 °C
PSB 3 W PCK 0 W Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	Poff	o w
PCK 0 W Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	РТО	78 W
Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.00 kW	PSB	3 W
Supplementary Heater: PSUP 0.00 kW	PCK	o w
	Supplementary Heater: Type of energy input	Electricity
Annual energy consumption Qhe 3153 kWh	Supplementary Heater: PSUP	0.00 kW
	Annual energy consumption Qhe	3153 kWh

Warmer Climate

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





This information was generated by the FF KETI	MINIC GOLDBOOK OIT TO MAI 2022
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	7.60 kW
COP Tj = +2°C	4.49
Cdh Tj = +2 °C	0.90
Pdh Tj = $+7$ °C	7.70 kW
$COP Tj = +7^{\circ}C$	4.85
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	7.90 kW
COP Tj = 12°C	5.45
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	4.49
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.49
WTOL	60 °C
Poff	0 W
РТО	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	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	
Tbiv	-15 °C	
TOL	-22 °C	
Pdh Tj = -7°C	7.80 kW	
COP Tj = -7°C	5.13	
Cdh Tj = -7 °C	0.90	
Pdh Tj = +2°C	7.90 kW	
COP Tj = +2°C	5.42	
Cdh Tj = +2 °C	0.90	

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<u> </u>	ANN database on 10 Mai 202.
Pdh Tj = +7°C	7.90 kW
$COPTj = +7^{\circ}C$	5.42
Cdh Tj = +7 °C	0.90
Pdh Tj = 12°C	7.90 kW
COP Tj = 12°C	5.68
Cdh Tj = +12 °C	0.90
Pdh Tj = Tbiv	7.80 kW
COP Tj = Tbiv	5.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.00
WTOL	60 °C
Poff	0 W
РТО	78 W
PSB	3 W
PCK	o 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 Tj = -15 °C	0.90





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



Model: TTF 7 basic, average climates

Configure model		
Model name	TTF 7 basic, average climates	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.64 kW	6.76 kW
El input	1.70 kW	2.67 kW
СОР	4.50	2.53

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





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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	7.80 kW	7.10 kW
COP Tj = +2°C	4.93	3.19
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	7.80 kW	7.30 kW
COP Tj = +7°C	5.31	3.60
Cdh Tj = +7 °C	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 Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	7.60 kW	6.80 kW
COP Tj = Tbiv	4.49	2.53
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW	6.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.49	2.53
WTOL	60 °C	60 °C
Poff	o w	o w
РТО	78 W	78 W
PSB	3 W	3 W
PCK	o w	o 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