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Summary of	TTF 27 HT	Reg. No.	011-1W0187	
Certificate Holder				
Name	tecalor GmbH	tecalor GmbH		
Address	Fürstenbergerstr. 77	Zip	37603	
City	Holzminden	Country	Germany	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Name of testing laboratory	TÜV Rheinland Energy GmbH			
Subtype title	TTF 27 HT			
Heat Pump Type	Brine/Water			
Refrigerant	R134a			
Mass Of Refrigerant	6 kg			
Certification Date	04.09.2019			

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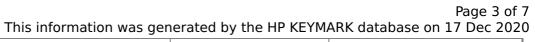
Model: TTF 27 HT

General Data		
Power supply	3x400V 50Hz	

Average Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	175 %	131 %
Prated	27.00 kW	25.00 kW
SCOP	4.58	4.58
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	27.50 kW	25.30 kW
COP Tj = -7°C	4.38	3.06
Cdh	0.90	0.90
Pdh Tj = +2°C	27.70 kW	26.10 kW
COP Tj = +2°C	4.59	3.48
Cdh	0.90	0.90
Pdh Tj = +7°C	27.90 kW	26.60 kW
COP Tj = +7°C	4.80	3.78
Cdh	0.90	
Pdh Tj = 12°C	28.20 kW	27.10 kW

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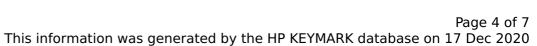


COP Tj = 12°C	5.03	4.12
Cdh	0.90	0.90
Pdh Tj = Tbiv	27.40 kW	25.10 kW
COP Tj = Tbiv	4.34	2.96
Pdh Tj = TOL	27.40 kW	25.10 kW
COP Tj = TOL	4.34	2.96
WTOL	75 °C	75 °C
Poff	0 W	0 W
РТО	3 W	3 W
PSB	3 W	3 W
PCK	46 W	46 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	12359 kWh	14872 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	60 dB(A)	64 dB(A)
Sound power level outdoor	60 dB(A)	64 dB(A)

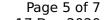
Warmer Climate

EN 14825





	Low temperature	Medium temperature
η_{s}	174 %	131 %
Prated	27.00 kW	25.00 kW
SCOP	4.58	4.58
ГЬіν	2 °C	2 °C
ГОL	2 °C	2 °C
Pdh Tj = +2°C	27.40 kW	25.10 kW
COP Tj = +2°C	4.34	2.96
Cdh	0.90	0.90
Pdh Tj = +7°C	27.70 kW	25.80 kW
COP Tj = +7°C	4.55	3.29
Cdh	0.90	0.90
Pdh Tj = 12°C	28.00 kW	26.80 kW
COP Tj = 12°C	4.88	3.89
Cdh	0.90	0.90
Pdh Tj = Tbiv	27.40 kW	25.10 kW
COP Tj = Tbiv	4.34	2.96
Pdh Tj = TOL	27.40 kW	25.10 kW
COP Tj = TOL	4.34	2.96
WTOL	75 °C	75 °C
Poff	0 W	0 W





Supplementary Heater: PSUP

Annual energy consumption Qhe

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РТО	3 W	3 W	
PSB	3 W	3 W	
PCK	46 W	46 W	
Supplementary Heater: Type of energy input	electricity	electricity	

0.00 kW

8031 kWh

0.00 kW

9675 kWh

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	27.41 kW	25.10 kW	
El input	6.32 kW	8.49 kW	
СОР	4.34	2.95	
Indoor water flow rate	4.61 m³/h	4.61 m³/h	

Colder Climate





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EN 14825

	Low temperature	Medium temperature
η_{s}	180 %	136 %
Prated	34.00 kW	32.00 kW
SCOP	4.58	4.58
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	27.80 kW	26.10 kW
COP Tj = -7°C	4.70	3.46
Cdh	0.90	0.90
Pdh Tj = +2°C	28.00 kW	26.60 kW
COP Tj = +2°C	4.86	3.77
Cdh	0.90	0.90
Pdh Tj = +7°C	28.10 kW	27.00 kW
COP Tj = +7°C	5.00	4.05
Cdh	0.90	0.90
Pdh Tj = 12°C	28.20 kW	27.30 kW
COP Tj = 12°C	5.02	4.28
Cdh	0.90	0.90
Pdh Tj = Tbiv	27.80 kW	25.00 kW
COP Tj = Tbiv	4.63	3.29

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Pdh Tj = TOL	27.40 kW	25.10 kW
COP Tj = TOL	4.34	2.96
WTOL	75 °C	75 °C
Poff	o w	o w
РТО	3 W	3 W
PSB	3 W	3 W
PCK	46 W	46 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.61 kW	6.52 kW
Annual energy consumption Qhe	17849 kWh	21670 kWh
Pdh Tj = -15°C (if TOL<-20°C)	27.80	25.00
COP Tj = -15°C (if TOL<-20°C)	4.63	3.29
Cdh	0.90	0.90