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Summary of	TTF 27	Reg. No.	011-1W0280
Certificate Holder			:
Name	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 Gmb	Н	
Subtype title	TTF 27		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	7.2 kg		



Model: TTF 27

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	29.69 kW	26.69 kW
El input	6.12 kW	9.57 kW
СОР	4.85	2.79
Indoor water flow rate	3.65 m³/h	5.30 m³/h

passed
passed
passed
passed

Average Climate



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	203 %	132 %
Prated	30.00 kW	27.00 kW
SCOP	5.28	3.50
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.80 kW	27.00 kW
COP Tj = -7°C	4.92	2.92
Pdh Tj = +2°C	30.10 kW	28.00 kW
COP Tj = +2°C	5.31	3.49
Pdh Tj = +7°C	30.40 kW	28.70 kW
COP Tj = +7°C	5.71	3.93
Pdh Tj = 12°C	30.70 kW	29.30 kW
COP Tj = 12°C	6.16	4.47
Pdh Tj = Tbiv	29.70 kW	26.70 kW

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COP Tj = Tbiv	4.85	2.79
Pdh Tj = TOL	29.70 kW	26.70 kW
COP Tj = TOL	4.85	2.79
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	74 W	74 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	11619 kWh	15758 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825		
	Low temperature	Medium temperature



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201 % 30.00 kW 5.23 2 °C 2 °C 29.70 kW	131 % 27.00 kW 3.48 2 °C 2 °C 26.70 kW
5.23 2 °C 2 °C 29.70 kW	3.48 2 °C 2 °C
2 °C 2 °C 29.70 kW	2 °C 2 °C
2 °C 29.70 kW	2 °C
29.70 kW	
	26.70 kW
4.85	2.79
30.00 kW	27.60 kW
5.22	3.22
30.50 kW	28.90 kW
5.85	4.10
29.70 kW	26.70 kW
4.85	2.79
29.70 kW	26.70 kW
4.85	2.79
0.90	0.90
60 °C	60 °C
0 W	0 W
7 W	7 W
7 W	7 W
74 W	74 W
	5.22 30.50 kW 5.85 29.70 kW 4.85 29.70 kW 4.85 0.90 60 °C 0 W 7 W 7 W

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	7587 kWh	10292 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	55 dB(A)	55 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	213 %	139 %	
Prated	37.00 kW	34.00 kW	
SCOP	5.53	3.68	
Tbiv	-15 °C	-15 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	30.20 kW	28.00 kW	
COP Tj = -7°C	5.51	3.47	
Pdh Tj = +2°C	30.50 kW	28.70 kW	
COP Tj = +2°C	5.83	3.92	

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Pdh Tj = +7°C	30.60 kW	29.20 kW
$COP Tj = +7^{\circ}C$	6.09	4.36
Pdh Tj = 12°C	30.70 kW	29.60 kW
COP Tj = 12°C	6.13	4.73
Pdh Tj = Tbiv	30.10 kW	27.60 kW
COP Tj = Tbiv	5.38	3.23
Pdh Tj = TOL	29.70 kW	26.70 kW
COP Tj = TOL	4.85	2.79
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
РТО	7 W	7 W
PSB	7 W	7 W
PCK	74 W	74 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	7.26 kW	7.13 kW
Annual energy consumption Qhe	1646 kWh	22680 kWh