

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

Summary of	TTF 66	Reg. No.	011-1W0282
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	TÜV Rheinland Energy GmbH		
Subtype title	TTF 66		
Heat Pump Type	Brine/Water		
Refrigerant	R410a		
Mass Of Refrigerant	14.5 kg		

Model: TTF 66

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	67.10 kW	62.30 kW
El input	14.23 kW	21.60 kW
COP	4.56	2.82
Indoor water flow rate	8.26 m ³ /h	8.26 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Average Climate

EN 14825

	Low temperature	Medium temperature

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η_s	190 %	131 %
Prated	67.00 kW	62.00 kW
SCOP	4.95	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	67.20 kW	62.80 kW
COP Tj = -7°C	4.62	2.94
Pdh Tj = +2°C	67.20 kW	62.80 kW
COP Tj = +2°C	4.93	3.44
Pdh Tj = +7°C	68.20 kW	65.50 kW
COP Tj = +7°C	5.25	3.82
Pdh Tj = 12°C	68.70 kW	66.50 kW
COP Tj = 12°C	5.61	4.28
Pdh Tj = Tbiv	67.10 kW	62.30 kW
COP Tj = Tbiv	4.56	2.82
Pdh Tj = TOL	67.10 kW	62.30 kW
COP Tj = TOL	4.56	2.82
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	7 W	7 W

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PSB	7 W	7 W
PCK	99 W	99 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	28022 kWh	37120 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	190 %	130 %
Prated	67.00 kW	62.00 kW

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SCOP	4.95	3.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	67.10 kW	62.30 kW
COP Tj = +2°C	4.56	2.82
Pdh Tj = +7°C	67.60 kW	63.70 kW
COP Tj = +7°C	4.86	3.20
Pdh Tj = 12°C	68.40 kW	65.90 kW
COP Tj = 12°C	5.37	3.96
Pdh Tj = Tbiv	67.10 kW	62.30 kW
COP Tj = Tbiv	4.56	2.82
Pdh Tj = TOL	67.10 kW	62.30 kW
COP Tj = TOL	4.56	2.82
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	99 W	99 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

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Annual energy consumption Q _{he}	18119 kWh	24059 kWh
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Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	197 %	136 %
Prated	83.00 kW	78.00 kW
SCOP	5.13	3.60
T _{biv}	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P _{dh} T _j = -7°C	68.00 kW	64.40 kW
COP T _j = -7°C	5.09	3.42
P _{dh} T _j = +2°C	68.30 kW	65.50 kW
COP T _j = +2°C	5.34	3.81
P _{dh} T _j = +7°C	68.60 kW	66.30 kW
COP T _j = +7°C	5.55	4.18

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Pdh Tj = 12°C	68.70 kW	67.00 kW
COP Tj = 12°C	5.58	4.49
Pdh Tj = Tbiv	67.80 kW	63.70 kW
COP Tj = Tbiv	4.99	3.21
Pdh Tj = TOL	67.10 kW	62.30 kW
COP Tj = TOL	4.56	2.82
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	0 W
PTO	7 W	7 W
PSB	7 W	7 W
PCK	99 W	99 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	16.03 kW	15.83 kW
Annual energy consumption Qhe	39996 kWh	53447 kWh