

Page 1 of 7

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Login

Summary of	TTF 40	Reg. No.	011-1W0281	
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 40	TTF 40		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	10 kg	10 kg		

Model: TTF 40

Configure model		
Model name	TTF 40	
Application	Heating (medium 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 14511-4		
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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	43.10 kW	40.20 kW
El input	9.23 kW	17.45 kW
СОР	4.67	2.99

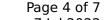
Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	58 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	194 %	133 %	
Prated	43.00 kW	40.00 kW	
SCOP	5.05	3.53	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = $+2^{\circ}$ C	43.10 kW	40.20 kW	
$COP Tj = +2^{\circ}C$	4.67	2.88	
Pdh Tj = $+7^{\circ}$ C	43.40 kW	41.10 kW	
$COP Tj = +7^{\circ}C$	4.98	3.27	
Pdh Tj = 12°C	43.90 kW	42.40 kW	
COP Tj = 12°C	5.51	4.05	
Pdh Tj = Tbiv	43.10 kW	40.20 kW	
COP Tj = Tbiv	4.67	2.88	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	43.10 kW	40.20 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.88	

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This information was generated by the HP KEYMARK database on 7 Jul 2022 0.90 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 60 °C 60 °C WTOL Poff 0 W 0 W 7 W 7 W PTO **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

Colder Climate

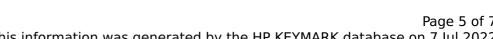
Annual energy consumption Qhe

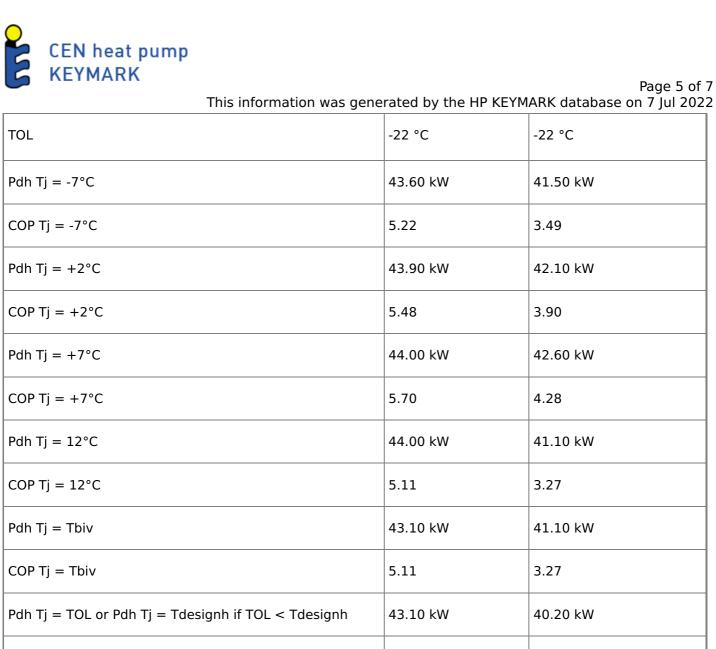
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	58 dB(A)

11415 kWh

15248 kWh

EN 14825			
	Low temperature	Medium temperature	
η_{s}	202 %	139 %	
Prated	53.00 kW	50.00 kW	
SCOP	5.25	3.68	
Tbiv	-15 °C	-15 °C	





Pdh Tj = -7°C	43.60 kW	41.50 kW
COP Tj = -7°C	5.22	3.49
Pdh Tj = +2°C	43.90 kW	42.10 kW
COP Tj = +2°C	5.48	3.90
Pdh Tj = +7°C	44.00 kW	42.60 kW
$COP Tj = +7^{\circ}C$	5.70	4.28
Pdh Tj = 12°C	44.00 kW	41.10 kW
COP Tj = 12°C	5.11	3.27
Pdh Tj = Tbiv	43.10 kW	41.10 kW
COP Tj = Tbiv	5.11	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	43.10 kW	40.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	10.27 kW	10.14 kW

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Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	58 dB(A)	58 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	194 %	133 %	
Prated	43.00 kW	40.00 kW	
SCOP	5.05	3.53	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	43.20 kW	40.50 kW	
COP Tj = -7°C	4.73	3.00	
Pdh Tj = +2°C	43.50 kW	41.50 kW	
COP Tj = +2°C	5.05	3.51	
Pdh Tj = +7°C	43.80 kW	42.10 kW	
COP Tj = +7°C	5.38	3.90	
Pdh Tj = 12°C	44.10 kW	42.80 kW	

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Page 7 of 7 This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = 12°C	5.76	4.38
Pdh Tj = Tbiv	43.10 kW	40.20 kW
COP Tj = Tbiv	4.67	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	43.10 kW	40.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.67	2.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	o w	0 W
PTO	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	17606 kWh	23479 kWh