

Page 1 of 8

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Summary of	TTF 87.5	Reg. No.	011-1W0460
Certificate Holder		<u> </u>	
Name	tecalor GmbH		
Address	Fürstenbergerstr. 77	Zip	37603
City	Holzminden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	TTF 87.5		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	9 kg		
Certification Date	15.03.2021		
Testing basis	HP KEYMARK certification scheme rules V8		



Model: TTF 87.5

Configure model			
Model name	TTF 87.5		
Application	Heating (medium temp)		
Units	Indoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	52.18 kW	48.32 kW		
El input	11.09 kW	17.02 kW		
СОР	4.71	2.84		

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

Average Climate

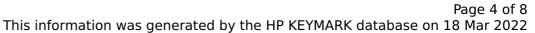


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EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	50 dB(A)	50 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{s}	199 %	157 %	
Prated	84.67 kW	79.00 kW	
SCOP	5.17	4.13	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	74.90 kW	69.88 kW	
COP Tj = -7°C	4.26	3.00	
Cdh Tj = -7 °C	0.90	0.90	
Pdh Tj = +2°C	45.59 kW	42.54 kW	
COP Tj = +2°C	5.14	4.08	
Cdh Tj = +2 °C	0.90	0.90	
Pdh Tj = $+7^{\circ}$ C	29.31 kW	27.35 kW	
COP Tj = +7°C	5.81	4.94	
Cdh Tj = +7 °C	0.90	0.90	
Pdh Tj = 12°C	24.37 kW	24.08 kW	

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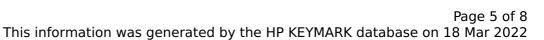




COP Tj = 12°C	5.65	5.16
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	84.67 kW	79.00 kW
COP Tj = Tbiv	3.97	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	84.67 kW	79.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.97	2.72
WTOL	65 °C	65 °C
Poff	9 W	9 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	33804 kWh	39457 kWh

Warmer Climate

	Medium temperature
2.0/	
)2 %	160 %
1.67 kW	79.00 kW
25	4.21





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Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2^{\circ}$ C	84.67 kW	79.00 kW
COP Tj = +2°C	3.97	2.72
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	54.43 kW	50.79 kW
$COPTj = +7^{\circ}C$	4.85	3.60
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	24.19 kW	24.07 kW
COP Tj = 12°C	5.85	5.16
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	84.67 kW	79.00 kW
COP Tj = Tbiv	3.97	2.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	84.67 kW	79.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.97	2.72
WTOL	65 °C	65 °C
Poff	9 W	9 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a





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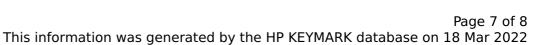
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	21524 kWh	23056 kWh

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	50 dB(A)	50 dB(A)		

Colder Climate

EN 14825				
	Low temperature	Medium temperature		
η_{s}	204 %	165 %		
Prated	84.67 kW	79.00 kW		
SCOP	5.30	4.32		
Tbiv	-22 °C	-22 °C		
TOL	-22 °C	-22 °C		
Pdh Tj = -7°C	51.25 kW	48.52 kW		
COP Tj = -7°C	5.06	3.85		
Cdh Tj = -7 °C	0.90	0.90		
Pdh Tj = +2°C	31.20 kW	29.11 kW		
COP Tj = +2°C	5.81	4.83		
Cdh Tj = +2 °C	0.90	0.90		

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Pdh Tj = +7°C	24.49 kW	24.11 kW			
$COP Tj = +7^{\circ}C$	5.85	5.20			
Cdh Tj = +7 °C	0.90	0.90			
Pdh Tj = 12°C	24.39 kW	24.22 kW			
COP Tj = 12°C	5.66	5.27			
Cdh Tj = +12 °C	0.90	0.90			
Pdh Tj = Tbiv	84.67 kW	79.00 kW			
COP Tj = Tbiv	3.97	2.72			
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	84.67 kW	79.00 kW			
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.97	2.72			
WTOL	65 °C	65 °C			
Poff	9 W	9 W			
РТО	11 W	11 W			
PSB	11 W	11 W			
PCK	o w	o w			
Supplementary Heater: Type of energy input	n/a	n/a			
Supplementary Heater: PSUP	0.00 kW	0.00 kW			
Annual energy consumption Qhe	39378 kWh	45048 kWh			
Pdh Tj = -15°C (if TOL<-20°C)	84.67	79.00			
COP Tj = -15 °C (if TOL< -20 °C)	3.97	2.72			
Cdh Tj = -15 °C	0.90	0.90			





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EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	50 dB(A)	50 dB(A)		