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Login

Summary of	TTF 87.5	Reg. No.	011-1W0460	
Certificate Holder				
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	

Warmer Climate



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}	202 %	160 %
Prated	84.67 kW	79.00 kW
SCOP	5.25	4.21
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	84.67 kW	79.00 kW
$COPTj = +2^{\circ}C$	3.97	2.72
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = $+7^{\circ}$ C	54.43 kW	50.79 kW
COP Tj = +7°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

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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	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	21524 kWh	23056 kWh

Colder Climate

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

ow temperature	Medium temperature
04 %	165 %
4.67 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
Pdh Tj = $+7^{\circ}$ 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	0 W	0 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

Average Climate

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	





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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°C	29.31 kW	27.35 kW		
$COPTj = +7^{\circ}C$	5.81	4.94		
Cdh Tj = +7 °C	0.90	0.90		
Pdh Tj = 12°C	24.37 kW	24.08 kW		
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		
РТО	11 W	11 W		
PSB	11 W	11 W		



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PCK	0 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