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Login

Summary of	TTF 52	Reg. No.	011-1W0188	
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 52	TTF 52		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	12.5 kg	12.5 kg		
Certification Date	04.09.2019	04.09.2019		



Model: TTF 52

Configure model		
Model name	TTF 52	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
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	55.83 kW	52.18 kW
El input	11.61 kW	17.45 kW
СОР	4.81	2.99

Warmer Climate



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	58 dB(A)	63 dB(A)
Sound power level outdoor	58 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	199 %	138 %
Prated	56.00 kW	52.00 kW
SCOP	5.18	3.65
Tbiv	2 °C	2 °C
TOL	0 °C	0 °C
Pdh Tj = $+2$ °C	55.80 kW	55.20 kW
$COP Tj = +2^{\circ}C$	4.81	2.99
Pdh Tj = $+7$ °C	56.20 kW	53.30 kW
$COP Tj = +7^{\circ}C$	5.12	3.39
Pdh Tj = 12°C	56.80 kW	54.90 kW
COP Tj = 12°C	5.65	4.19
Pdh Tj = Tbiv	55.80 kW	52.20 kW
COP Tj = Tbiv	4.81	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.80 kW	52.20 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.81	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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
Annual energy consumption Qhe	14419 kWh	19157 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	58 dB(A)	63 dB(A)	
Sound power level outdoor	58 dB(A)	63 dB(A)	

EN 14825		
Low temperature	Medium temperature	
207 %	144 %	
69.00 kW	65.00 kW	
	Low temperature 207 %	



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SCOP	5.38	3.80
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	56.50 kW	53.80 kW
$COP Tj = -7^{\circ}C$	5.36	3.62
Pdh Tj = +2°C	56.80 kW	54.60 kW
COP Tj = +2°C	5.63	4.03
Pdh Tj = $+7^{\circ}$ C	57.00 kW	55.30 kW
$COP Tj = +7^{\circ}C$	5.84	4.42
Pdh Tj = 12°C	57.00 kW	55.70 kW
COP Tj = 12°C	5.88	4.74
Pdh Tj = Tbiv	56.40 kW	53.30 kW
COP Tj = Tbiv	5.25	3.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.80 kW	52.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.81	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	0 W	o w
РТО	7 W	7 W
PSB	7 W	7 W
PCK	99 W	99 W

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	13.28 kW	13.12 kW
Annual energy consumption Qhe	31644 kWh	42330 kWh

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	58 dB(A)	63 dB(A)		
Sound power level outdoor	58 dB(A)	63 dB(A)		

EN 14825				
	Low temperature	Medium temperature		
η_{s}	200 %	138 %		
Prated	56.00 kW	52.00 kW		
SCOP	5.20	3.65		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	55.90 kW	52.50 kW		
COP Tj = -7°C	4.87	3.12		
Pdh Tj = $+2$ °C	56.30 kW	53.80 kW		
COP Tj = +2°C	5.20	3.64		

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Pdh Tj = $+7$ °C	56.70 kW	54.60 kW
$COP Tj = +7^{\circ}C$	5.53	4.03
Pdh Tj = 12°C	57.00 kW	55.40 kW
COP Tj = 12°C	5.90	4.52
Pdh Tj = Tbiv	55.80 kW	52.20 kW
COP Tj = Tbiv	4.81	2.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	55.80 kW	52.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.81	2.99
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	99 W	99 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	22209 kWh	29469 kWh