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Login

Summary of	TTF 35	Reg. No.	011-1W0043
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 35		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	10 kg		
Certification Date	01.11.2016		



Model: TTF 35

Configure model		
Model name	TTF 35	
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	37.70 kW	34.49 kW
El input	7.98 kW	11.47 kW
СОР	4.72	3.01

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	56 dB(A)	56 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	199 %	132 %
Prated	38.00 kW	34.00 kW
SCOP	5.17	3.50
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	38.00 kW	34.10 kW
COP Tj = +2°C	4.78	2.82
Pdh Tj = $+7^{\circ}$ C	38.50 kW	35.20 kW
$COPTj = +7^{\circ}C$	5.12	3.24
Pdh Tj = 12°C	39.10 kW	37.00 kW
COP Tj = 12°C	5.69	4.08
Pdh Tj = Tbiv	38.00 kW	34.10 kW
COP Tj = Tbiv	4.78	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	38.00 kW	34.10 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.78	2.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	o w	o 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	0.00 kW	0.00 kW
Annual energy consumption Qhe	9834 kWh	13033 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	56 dB(A)	56 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
Medium temperature		
139 %		
43.00 kW		
43		





SCOP	5.41	3.66
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	38.80 kW	35.80 kW
COP Tj = -7°C	5.38	3.48
Pdh Tj = +2°C	39.10 kW	36.70 kW
COP Tj = +2°C	5.67	3.91
Pdh Tj = $+7^{\circ}$ C	39.30 kW	37.40 kW
$COP Tj = +7^{\circ}C$	5.90	4.32
Pdh Tj = 12°C	39.30 kW	37.90 kW
COP Tj = 12°C	5.94	4.66
Pdh Tj = Tbiv	38.60 kW	34.10 kW
COP Tj = Tbiv	5.26	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	38.60 kW	34.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	5.26	2.82
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



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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.32 kW	9.15 kW
Annual energy consumption Qhe	21594 kWh	28986 kWh

Average Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	56 dB(A)	56 dB(A)		
Sound power level outdoor	56 dB(A)	56 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
η_{S}	200 %	133 %	
Prated	38.00 kW	34.00 kW	
SCOP	5.19	3.52	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	38.10 kW	34.50 kW	
COP Tj = -7°C	4.84	2.95	
Pdh Tj = $+2$ °C	38.60 kW	35.80 kW	
COP Tj = +2°C	5.20	3.50	



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Pdh Tj = +7°C	39.00 kW	37.50 kW
$COP Tj = +7^{\circ}C$	5.96	4.42
Pdh Tj = 12°C	38.00 kW	34.10 kW
COP Tj = 12°C	4.75	2.82
Pdh Tj = Tbiv	38.00 kW	34.10 kW
COP Tj = Tbiv	4.78	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	38.00 kW	34.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.78	2.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	o 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	0.00 kW	0.00 kW
Annual energy consumption Qhe	15136 kWh	20029 kWh