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Summary of	TTF 66	Reg. No.	011-1W0282
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 66		
Heat Pump Type	Brine/Water		
Refrigerant	R410A		
Mass of Refrigerant	14.5 kg		

## Model: TTF 66

Configure model	
Model name	TTF 66
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 14511-2		
	Low temperature	Medium temperature
Heat output	67.10 kW	62.30 kW
El input	14.23 kW	21.60 kW
COP	4.56	2.82

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

### Average Climate

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**EN 14825**

	Low temperature	Medium temperature
$\eta_s$	190 %	131 %
Prated	67.00 kW	62.00 kW
SCOP	4.95	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	67.20 kW	62.80 kW
COP Tj = -7°C	4.62	2.94
Pdh Tj = +2°C	67.20 kW	62.80 kW
COP Tj = +2°C	4.93	3.44
Pdh Tj = +7°C	68.20 kW	65.50 kW
COP Tj = +7°C	5.25	3.82
Pdh Tj = 12°C	68.70 kW	66.50 kW
COP Tj = 12°C	5.61	4.28
Pdh Tj = Tbiv	67.10 kW	62.30 kW
COP Tj = Tbiv	4.56	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	67.10 kW	62.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C

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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 Q <sub>he</sub>	28022 kWh	37120 kWh

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

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$\eta_s$	190 %	130 %
Prated	67.00 kW	62.00 kW
SCOP	4.95	3.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	67.10 kW	62.30 kW
COP Tj = +2°C	4.56	2.82
Pdh Tj = +7°C	67.60 kW	63.70 kW
COP Tj = +7°C	4.86	3.20
Pdh Tj = 12°C	68.40 kW	65.90 kW
COP Tj = 12°C	5.37	3.96
Pdh Tj = Tbiv	67.10 kW	62.30 kW
COP Tj = Tbiv	4.56	2.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	67.10 kW	62.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.82
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

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	18119 kWh	24059 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	59 dB(A)	59 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	197 %	136 %
Prated	83.00 kW	78.00 kW
SCOP	5.13	3.60
T <sub>biv</sub>	-15 °C	-15 °C
TOL	-22 °C	-22 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	68.00 kW	64.40 kW
COP T <sub>j</sub> = -7°C	5.09	3.42
P <sub>dh</sub> T <sub>j</sub> = +2°C	68.30 kW	65.50 kW
COP T <sub>j</sub> = +2°C	5.34	3.81

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Pdh Tj = +7°C	68.60 kW	66.30 kW
COP Tj = +7°C	5.55	4.18
Pdh Tj = 12°C	68.70 kW	67.00 kW
COP Tj = 12°C	5.58	4.49
Pdh Tj = Tbiv	67.80 kW	63.70 kW
COP Tj = Tbiv	4.99	3.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	67.10 kW	62.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.82
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	16.03 kW	15.83 kW
Annual energy consumption Qhe	39996 kWh	53447 kWh