Login

Summary of	THZ 5.5/8.5/504	Reg. No.	011-1W0050
Certificate Holder			
Name	tecalor GmbH		
Address	Fürstenbergerstr. 77	Zip	37603
City	Holzminden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	THZ 5.5/8.5/504		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.95 kg		

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Model: THZ 504

Configure model	
Model name	THZ 504
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66

Warmer 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	207 %	150 %
Prated	9.00 kW	8.00 kW
SCOP	5.24	3.82
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.81 kW	8.32 kW
COP Tj = +2°C	3.18	2.34
Pdh Tj = +7°C	5.77 kW	5.41 kW
COP Tj = +7°C	4.57	3.26
Pdh Tj = 12°C	3.34 kW	3.17 kW
COP Tj = 12°C	6.89	5.11
Pdh Tj = Tbiv	8.81 kW	8.32 kW
COP Tj = Tbiv	3.18	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.81 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.18	2.34

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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2243 kWh	2911 kWh

Colder 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	131 %	102 %
Prated	14.00 kW	11.00 kW
SCOP	3.34	2.62
Tbiv	-7 °C	-7 °C

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TOL	-20 °C	-13 °C
Pdh Tj = -7°C	8.62 kW	6.38 kW
COP Tj = -7°C	2.96	2.50
Pdh Tj = +2°C	5.28 kW	3.92 kW
COP Tj = +2°C	4.20	3.48
Pdh Tj = +7°C	3.42 kW	2.79 kW
COP Tj = +7°C	5.87	4.68
Pdh Tj = 12°C	3.35 kW	3.24 kW
COP Tj = 12°C	7.12	5.67
Pdh Tj = Tbiv	8.62 kW	6.38 kW
COP Tj = Tbiv	2.56	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.73 kW	2.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	6.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.24 kW	10.57 kW

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Annual energy consumption Qhe	10498 kWh	9932 kWh

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	163 %	128 %
Prated	10.00 kW	7.00 kW
SCOP	4.14	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.42 kW	5.87 kW
COP Tj = -7°C	2.76	2.26
Pdh Tj = +2°C	5.12 kW	3.52 kW
COP Tj = +2°C	3.94	3.27
Pdh Tj = +7°C	3.26 kW	2.72 kW
COP Tj = +7°C	5.53	4.14
Pdh Tj = 12°C	3.35 kW	3.20 kW

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COP Tj = 12°C	7.09	5.29
Pdh Tj = Tbiv	8.42 kW	5.87 kW
COP Tj = Tbiv	2.76	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.37 kW	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.15 kW	3.97 kW
Annual energy consumption Qhe	4755 kWh	4199 kWh

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Model: THZ 5.5 eco

Configure model	
Model name	THZ 5.5 eco
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66

Warmer Climate

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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	178 %	134 %
Prated	7.00 kW	7.00 kW
SCOP	4.53	3.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.68 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	6.89 kW

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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.38	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1977 kWh	2694 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	135 %	101 %
Prated	9.00 kW	9.00 kW

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SCOP	3.45	2.60
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-13 °C
Pdh Tj = -7°C	5.57 kW	5.31 kW
COP Tj = -7°C	3.14	2.52
Pdh Tj = +2°C	3.45 kW	3.28 kW
COP Tj = +2°C	4.51	3.50
Pdh Tj = +7°C	2.89 kW	2.78 kW
COP Tj = +7°C	5.78	4.56
Pdh Tj = 12°C	3.34 kW	3.23 kW
COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	3.14	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	2.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W

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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.52 kW	8.76 kW
Annual energy consumption Qhe	6605 kWh	8311 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)
Sound power level outdoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	154 %	121 %
Prated	6.00 kW	6.00 kW
SCOP	3.92	3.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	4.18	3.27

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Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW
COP Tj = 12°C	6.96	5.29
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.48 kW	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3280 kWh	4138 kWh

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Model: THZ 5.5 flex

Configure model	
Model name	THZ 5.5 flex
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66

Warmer Climate

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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	178 %	134 %
Prated	7.00 kW	7.00 kW
SCOP	4.53	3.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.89 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	6.89 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.38	2.50

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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1977 kWh	2694 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	135 %	101 %
Prated	9.00 kW	9.00 kW
SCOP	3.45	2.60
Tbiv	-7 °C	-7 °C

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TOL	-20 °C	-13 °C
Pdh Tj = -7°C	5.57 kW	5.31 kW
COP Tj = -7°C	3.14	2.52
Pdh Tj = +2°C	3.45 kW	3.28 kW
COP Tj = +2°C	4.51	3.50
Pdh Tj = +7°C	2.89 kW	2.78 kW
COP Tj = +7°C	5.78	4.56
Pdh Tj = 12°C	3.34 kW	3.23 kW
COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	3.14	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	2.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.25 kW	8.76 kW

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Annual energy consumption Qhe	6605 kWh	8311 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	154 %	121 %
Prated	6.00 kW	6.00 kW
SCOP	3.92	3.11
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	4.18	3.27
Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW

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COP Tj = 12°C	6.96	5.26
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.47 kW	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3280 kWh	4138 kWh

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Model: THZ 5.5 SOL

Configure model	
Model name	THZ 5.5 SOL
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66

Warmer 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	207 %	149 %
Prated	7.00 kW	7.00 kW
SCOP	5.25	3.80
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.70 kW	6.89 kW
COP Tj = +2°C	3.38	2.50
Pdh Tj = +7°C	4.31 kW	4.47 kW
COP Tj = +7°C	4.81	3.28
Pdh Tj = 12°C	3.32 kW	3.16 kW
COP Tj = 12°C	6.73	4.98
Pdh Tj = Tbiv	6.70 kW	6.89 kW
COP Tj = Tbiv	3.38	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.70 kW	6.89 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.38	2.50

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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1704 kWh	2420 kWh

Colder 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	138 %	103 %
Prated	9.00 kW	9.00 kW
SCOP	3.53	2.64
Tbiv	-7 °C	-7 °C

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TOL	-20 °C	-13 °C
Pdh Tj = -7°C	5.57 kW	5.31 kW
COP Tj = -7°C	3.14	2.52
Pdh Tj = +2°C	3.45 kW	3.28 kW
COP Tj = +2°C	4.51	3.50
Pdh Tj = +7°C	2.89 kW	2.78 kW
COP Tj = +7°C	5.78	4.56
Pdh Tj = 12°C	3.34 kW	3.23 kW
COP Tj = 12°C	6.96	5.59
Pdh Tj = Tbiv	5.57 kW	5.31 kW
COP Tj = Tbiv	3.14	2.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.36 kW	2.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.25 kW	8.76 kW

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Annual energy consumption Qhe	6468 kWh	8174 kWh

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	165 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.21	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.48 kW	5.54 kW
COP Tj = -7°C	2.93	2.26
Pdh Tj = +2°C	3.28 kW	3.41 kW
COP Tj = +2°C	4.18	3.27
Pdh Tj = +7°C	2.86 kW	2.71 kW
COP Tj = +7°C	5.43	4.09
Pdh Tj = 12°C	3.34 kW	3.19 kW

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COP Tj = 12°C	6.96	5.26
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.47 kW	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.75 kW	3.55 kW
Annual energy consumption Qhe	3052 kWh	3910 kWh

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Model: THZ 5.5 eco DHW

Configure model	
Model name	THZ 5.5 eco DHW
Application	Heating + DHW
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2	
	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66

Average Climate

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EN 12102-1	
	Medium temperature
Sound power level indoor	52 dB(A)

EN 14825	
	Medium temperature
η_s	121 %
Prated	6.00 kW
SCOP	3.11
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.54 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.41 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.71 kW
COP Tj = +7°C	4.09
Pdh Tj = 12°C	3.19 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.54 kW
COP Tj = Tbiv	2.26

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98
WTOL	60 °C
Poff	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	3.55 kW
Annual energy consumption Qhe	4138 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	XL
Efficiency ηDHW	111 %
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l

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Model: THZ 504 DHW

Configure model	
Model name	THZ 504 DHW
Application	Heating + DHW
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2	
	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66

Average Climate

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

EN 14825	
	Medium temperature
η_s	128 %
Prated	7.00 kW
SCOP	3.27
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.87 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.52 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.72 kW
COP Tj = +7°C	4.14
Pdh Tj = 12°C	3.20 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.87 kW
COP Tj = Tbiv	2.26

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98
WTOL	60 °C
Poff	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	3.97 kW
Annual energy consumption Qhe	4199 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	XL
Efficiency ηDHW	111 %
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l

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Model: THZ 5.5 SOL DHW

Configure model	
Model name	THZ 5.5 SOL DHW
Application	Heating + DHW
Units	Indoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2	
	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
COP	2.66

Average Climate

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

EN 14825	
	Medium temperature
η_s	121 %
Prated	6.00 kW
SCOP	3.11
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	5.54 kW
COP Tj = -7°C	2.26
Pdh Tj = +2°C	3.41 kW
COP Tj = +2°C	3.27
Pdh Tj = +7°C	2.71 kW
COP Tj = +7°C	4.09
Pdh Tj = 12°C	3.19 kW
COP Tj = 12°C	5.29
Pdh Tj = Tbiv	5.54 kW
COP Tj = Tbiv	2.26

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98
WTOL	60 °C
Poff	27 W
PTO	63 W
PSB	27 W
PCK	35 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	3.55 kW
Annual energy consumption Qhe	4138 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	XL
Efficiency ηDHW	111 %
COP	2.70
Heating up time	02:06 h:min
Standby power input	132.0 W
Reference hot water temperature	57.0 °C
Mixed water at 40°C	352 l

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Model: THZ 8.5 Flex

Configure model	
Model name	THZ 8.5 Flex
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 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
Defrost test	passed

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
COP	4.74	2.66

Warmer Climate

Disclaimer: this document is a summary of the certified performance.
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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	184 %	133 %
Prated	9.00 kW	8.00 kW
SCOP	4.67	3.41
Tbiv	2 °C	0 °C
TOL	2 °C	0 °C
Pdh Tj = +2°C	8.81 kW	8.32 kW
COP Tj = +2°C	3.18	2.34
Pdh Tj = +7°C	5.77 kW	5.41 kW
COP Tj = +7°C	4.57	3.26
Pdh Tj = 12°C	3.34 kW	3.17 kW
COP Tj = 12°C	6.89	5.11
Pdh Tj = Tbiv	8.81 kW	8.32 kW
COP Tj = Tbiv	3.18	2.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.81 kW	8.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.18	2.34

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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	24 W	24 W
PTO	69 W	69 W
PSB	24 W	24 W
PCK	55 W	55 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2517 kWh	3264 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	129 %	100 %
Prated	14.00 kW	11.00 kW
SCOP	3.30	2.58
Tbiv	-7 °C	-7 °C

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TOL	-20 °C	-13 °C
Pdh Tj = -7°C	8.62 kW	6.38 kW
COP Tj = -7°C	2.96	2.50
Pdh Tj = +2°C	5.28 kW	3.92 kW
COP Tj = +2°C	4.20	3.48
Pdh Tj = +7°C	3.42 kW	2.79 kW
COP Tj = +7°C	5.87	4.68
Pdh Tj = 12°C	3.35 kW	3.24 kW
COP Tj = 12°C	7.12	5.67
Pdh Tj = Tbiv	8.62 kW	6.38 kW
COP Tj = Tbiv	2.56	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.73 kW	2.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.56	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	14.24 kW	10.57 kW

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Annual energy consumption Qhe	10634 kWh	10109 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	155 %	121 %
Prated	10.00 kW	7.00 kW
SCOP	3.95	3.10
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.42 kW	5.87 kW
COP Tj = -7°C	2.76	2.26
Pdh Tj = +2°C	5.12 kW	3.52 kW
COP Tj = +2°C	3.94	3.27
Pdh Tj = +7°C	3.26 kW	2.72 kW
COP Tj = +7°C	5.53	4.14
Pdh Tj = 12°C	3.35 kW	3.20 kW

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COP Tj = 12°C	7.09	5.29
Pdh Tj = Tbiv	8.42 kW	5.87 kW
COP Tj = Tbiv	2.76	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.37 kW	2.67 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.69	1.88
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
PTO	63 W	63 W
PSB	27 W	27 W
PCK	35 W	35 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.15 kW	3.97 kW
Annual energy consumption Qhe	4982 kWh	4427 kWh

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