

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 fü	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Universität Stuttgart Institut für GebäudeEnergetik			
Subtype title	THZ 5.5/8.5/504			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	2.95 kg			



Model: THZ 504

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.84 kW	
El input	0.93 kW	1.44 kW	
СОР	4.74	2.66	
Indoor water flow rate	0.77 m³/h	0.42 m³/h	

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 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
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	8.37 kW	2.67 kW
COP Tj = TOL	2.69	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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

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}	207 %	150 %
Prated	9.00 kW	8.00 kW





This information was generated by the HP RETMARK database on 17 Dec 2020			
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	
$COP Tj = +2^{\circ}C$	3.18	2.34	
Pdh Tj = +7°C	5.77 kW	5.41 kW	
$COPTj = +7^{\circ}C$	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	8.81 kW	8.32 kW	
COP Tj = TOL	3.18	2.34	
Cdh	0.98	0.98	
WTOL	60 °C	60 °C	
Poff	27 W	27 W	
РТО	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	
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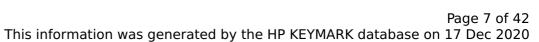


Annual energy consumption Qhe	2243 kWh	2911 kWh

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
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	5.73 kW	2.58 kW
COP Tj = TOL	2.56	6.38
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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
Annual energy consumption Qhe	10498 kWh	9932 kWh



Model: THZ 5.5 eco

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.84 kW	
El input	0.93 kW	1.44 kW	
СОР	4.74	2.66	
Indoor water flow rate	0.77 m³/h	0.42 m³/h	

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 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
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	5.48 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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

Warmer 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





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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 = $+7^{\circ}$ C	4.31 kW	4.47 kW
$COPTj = +7^{\circ}C$	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	6.70 kW	6.89 kW
COP Tj = TOL	3.38	2.50
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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)

Low temperature	Medium temperature
135 %	
	101 %
9.00 kW	9.00 kW
3.45	2.60
-7 °C	-7 °C
-20 °C	-13 °C
5.57 kW	5.31 kW
3.14	2.52
3.45 kW	3.28 kW
4.51	3.50
	3.45 -7 °C -20 °C 5.57 kW 3.14 3.45 kW



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Pdh Tj = +7°C	2.89 kW	2.78 kW
$COP Tj = +7^{\circ}C$	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	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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	9.52 kW	8.76 kW
Annual energy consumption Qhe	6605 kWh	8311 kWh

Model: THZ 5.5 flex

General Data		
Power supply	1x230V 50Hz	

Heating

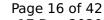
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
СОР	4.74	2.66
Indoor water flow rate	0.77 m³/h	0.42 m³/h

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 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
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	5.47 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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

Warmer Climate

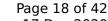
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
Low temperature	Medium temperature	
178 %	134 %	
7.00 kW	7.00 kW	
	Low temperature	





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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
$COPTj = +7^{\circ}C$	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	6.70 kW	6.89 kW
COP Tj = TOL	3.38	2.50
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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
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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
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



$$\operatorname{\textit{Page}}\ 19$ of 42$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

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	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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
Annual energy consumption Qhe	6605 kWh	8311 kWh

Model: THZ 5.5 SOL

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.84 kW
El input	0.93 kW	1.44 kW
СОР	4.74	2.66
Indoor water flow rate	0.77 m³/h	0.42 m³/h

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



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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}	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
COP Tj = 12°C	6.96	5.26
Pdh Tj = Tbiv	5.48 kW	5.54 kW
COP Tj = Tbiv	2.93	2.26





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Pdh Tj = TOL	5.47 kW	2.67 kW
COP Tj = TOL	2.82	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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

Warmer Climate

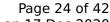
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	207 %	149 %
Prated	7.00 kW	7.00 kW





This information was generated by the HP RETMARK database on 17 Dec 2020			
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	
$COPTj = +7^{\circ}C$	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	6.70 kW	6.89 kW	
COP Tj = TOL	3.38	2.50	
Cdh	0.98	0.98	
WTOL	60 °C	60 °C	
Poff	27 W	27 W	
РТО	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
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



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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	4.36 kW	2.58 kW
COP Tj = TOL	2.55	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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
Annual energy consumption Qhe	6468 kWh	8174 kWh



Model: THZ 5.5 eco DHW

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Medium temperature	
Heat output	3.84 kW	
El input	1.44 kW	
СОР	2.66	
Indoor water flow rate	0.42 m³/h	

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

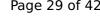
EN 14825		
	Medium temperature	
ls	121 %	
rated	6.00 kW	
СОР	3.11	
piv	-7 °C	
OL .	-10 °C	
dh Tj = -7°C	5.54 kW	
OP Tj = -7°C	2.26	
dh Tj = +2°C	3.41 kW	
OP Tj = +2°C	3.27	
lh Tj = +7°C	2.71 kW	
OP Tj = +7°C	4.09	
dh Tj = 12°C	3.19 kW	
OP Tj = 12°C	5.29	
dh Tj = Tbiv	5.54 kW	
OP Tj = Tbiv	2.26	





Pdh Tj = TOL	2.67 kW
COP Tj = TOL	1.88
Cdh	0.98
WTOL	60 °C
Poff	27 W
РТО	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)





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EN 16147		
Declared load profile	XL	
СОР	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	
Efficiency ηDHW	111 %	

Model: THZ 504 DHW

General Data		
Power supply 1x230V 50Hz		

Heating

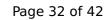
EN 14511-2	
	Medium temperature
Heat output	3.84 kW
El input	1.44 kW
СОР	2.66
Indoor water flow rate	0.42 m³/h

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

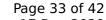
EN 14825	
	Medium temperature
n _s	128 %
Prated	7.00 kW
SCOP	3.27
biv	-7 °C
-OL	-10 °C
Pdh Tj = -7°C	5.87 kW
OP Tj = -7°C	2.26
dh Tj = +2°C	3.52 kW
OP Tj = +2°C	3.27
dh Tj = +7°C	2.72 kW
$COP Tj = +7^{\circ}C$	4.14
dh Tj = 12°C	3.20 kW
COP Tj = 12°C	5.29
dh Tj = Tbiv	5.87 kW
COP Tj = Tbiv	2.26





Pdh Tj = TOL	2.67 kW
COP Tj = TOL	1.88
Cdh	0.98
WTOL	60 °C
Poff	27 W
РТО	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)





EN 16147		
Declared load profile	XL	
СОР	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	
Efficiency ηDHW	111 %	



Model: THZ 5.5 SOL DHW

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Medium temperature	
Heat output	3.84 kW	
El input	1.44 kW	
СОР	2.66	
Indoor water flow rate	0.42 m³/h	

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	

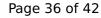
Average Climate

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
Pdh Tj = TOL	2.67 kW
COP Tj = TOL	1.88
Cdh	0.98
WTOL	60 °C
Poff	27 W





РТО	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

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

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
СОР	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 I	
Efficiency ηDHW	111 %	

Model: THZ 8.5 Flex

General Data	
Power supply	1x230V 50Hz

Heating

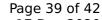
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.84 kW	
El input	0.93 kW	1.44 kW	
СОР	4.74	2.66	
Indoor water flow rate	0.77 m³/h	0.42 m³/h	

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 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
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	8.37 kW	2.67 kW
COP Tj = TOL	2.69	1.88
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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

Warmer Climate

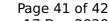
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
Low temperature	Medium temperature	
184 %	133 %	
9.00 kW	8.00 kW	
	Low temperature	





This information was generated by the HP REYMARK database on 17 Dec 2020				
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		
$COP Tj = +7^{\circ}C$	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	8.81 kW	8.32 kW		
COP Tj = TOL	3.18	2.34		
Cdh	0.98	0.98		
WTOL	60 °C	60 °C		
Poff	24 W	24 W		
РТО	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		





	2517114	2264 1 144
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	
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	



$$\operatorname{Page}\ 42$$ of 42 This information was generated by the HP KEYMARK database on 17 Dec 2020

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	5.73 kW	2.58 kW
COP Tj = TOL	2.56	2.09
Cdh	0.98	0.98
WTOL	60 °C	60 °C
Poff	27 W	27 W
РТО	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
Annual energy consumption Qhe	10634 kWh	10109 kWh