

Technical Report No.: 64.181.23.02589.01 Rev.00 Date: 2023-07-13

Client:	Report holder's name:	ThermoFLUX d.o.o
	Report holder's Address:	Bage 3, 70101 Jajce, Bosnia and Herzegovina
	Contact person of report holder:	Amel Kopić
Manufacturer:	Manufacturer's name:	ThermoFLUX d.o.o
	Manufacturer's address:	Bage 3, 70101 Jajce, Bosnia and Herzegovina
Test object:	Product: Model:	EVI DC Inverter Air Source Heat Pumps MONOBLOCK TF16EVI R32 CT 220V
Test specification:	Trade mark: ☑ ☑ ☑ ☑	ThermoFLUX EN 14825:2022 EN 14511-3:2022 EN 14511-4:2022 Clause 4 EN 12102-1:2022

Purpose of examination:	Test accordin	Test according to the test specification			
cxamination.	4	(EU) No 813/2013			
	v	EU 2016/2282:2016-11-30			

Test result:

The test results show that the presented product is in compliance with the above listed test specifications.

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1 Description of the test object

1.1 Function

Manufacturer's specification for intended use: The appliance is air to water heat pump. Manufacturer's specification for predictive use: According to user manual

1.2 Consideration of the foreseeable use

- □ Not applicable
- $\ensuremath{\boxdot}$ Covered through the applied standard
- $\hfill \Box$ Covered by the following comment
- $\hfill\square$ Covered by attached risk analysis

1.3 Technical Data

Model :	MONOBLOCK TF16EVI R32 CT 220V			
Rated Voltage (V) :	220-240V~			
Rated Frequency (Hz) :	50			
Rated Power (W) :	4900			
Rated Current (A) :	23.6			
Protection Class :	Class I			
Protection Against Moisture :	IP X4			
Construction :	Stationary			
Supply connection :	Non detachable cord			
	Permanent connection to fixed wiring			
Operation mode:	 Continuous operation; 			
	Intermittent operation;			
	☐ Short time operation;			
Refrigerant/charge (kg) :	R32 / 2.10kg			
Declared parameters :	🗹 Average 🗌 Warmer 🗌 Colder			
Sound power level dB(A) :	N/A			
Series No :	KAL012210300400234			







2 Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2023-04-24, 2023-07-11

Customer's Reference: ThermoFLUX d.o.o

2.2 Test Sample(s)

• Reception date(s): 2023-04-24

• Location(s) of reception:

For Energy test:

Guangzhou Customs District Technology Center

Address: No.3, Desheng East Road, Daliang, Shunde District, Foshan, Guangdong, China

For Noise tests:

CVC Testing Technology Co., Ltd.

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, 510663, P.R.China

• Condition of test sample(s): completed and can be normal operation

2.3 Date(s) of Testing

2023-04-24 to 2023-06-07

2.4 Location(s) of Testing

Same as 2.2

2.5 Points of Non-compliance or Exceptions of the Test Procedure N/A

3 Test Results

☑ Decision rule according to ILAC-G8:09/2019 clause 4.2.1 Binary statement for simple acceptance rule or IEC Guide 115:2021, clause 4.4.3, 4.5.1 Accuracy method was applied.

 $\hfill\square$ Decision rule according to customer's requirements was applied. It is:

 \Box Decision rule according to ILAC-G8:09/2019 clause 4.2.2 Binary statement with guard band - guard band length = 95 % extended measurement uncertainty, was applied.

 \Box Decision rule (based on ILAC-G8:09/2019 clause 4.2.3 Non-binary statement with guard band, guard band length = 95 % extended measurement uncertainty) for an upper specification limit (A lower limit or specification with an up-per and a lower limit is treated similarly.):

• Compliance with the requirement: If a specification limit is not breached by a measurement result plus the expanded uncertainty with a 95% coverage probability, then compliance with the specification will be stated (e. g. Pass).

• Non-compliance with the requirement: If a specification limit is exceeded by the measurement result minus the expanded uncertainty with a 95% coverage probability, then non-compliance with the specification will be stated (e. g. Fail).

• Inconclusive result: If a measurement result plus/minus the expanded uncertainty with a 95 % coverage probability overlaps the limit it will be stated that it is not possible to state compliance or non-compliance.

3.1 Positive Test Results

See Appendix I

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4 Remarks

4.1 General

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.

4.2 When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information re-garding safe operation, installation and maintenance.

5 Documentation

- Appendix I: Test results
- Appendix II: Marking plate
- Appendix III: photo documentation
- Appendix IV: Construction data form
- Appendix V: Test equipment list

6 Test History

- 1) The appliance is Air To Water Heat Pump Unit, including a whole compression type refrigerant circuit to heat water in another circuit. The appliance was for cooling and heating water function, this report only for heating capacity test.
- 2) The main power is supplied by a 3-pole supply cord connecting to fixed wiring.
- 3) Water enthalpy method was adopted in this report.
- 4) Standby mode power, off mode power and thermostat-off mode power were tested according to clause 12 of standard EN 14825:2022.
- 5) This test report 64.181.23.02589.01 Rev.00, dated 2023-07-13 bases on original test report 64.181.23.01454.01 Rev.00, dated 2023-06-21 to include the following changes and/or additions, which were considered technical modifications:

a) Changing report holder name and address, manufacturer name and address, trademark and model name.

b) After evaluating, no additional test was needed.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch TÜV SÜD Group

Tested by:

printed name, function & signature

Approved by:

Plum Li, Designated Reviewer

William Liang, Project Handler

printed name, function & signature





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Appendix I T	est results								
Table 1.	Heating mode	e(Low temp	erature	applicat	tion):			F	2
Model	MONOBLOCK	K TF16EVI R	32 CT 2	20V					
Product	Air to Water	Heating	~	Averag		Warme		Colder	
type		season		е					
1. Test cond	itions:								
		Part Loa	d Ratio			Outdoo	or heat	Indoo	r heat
ы		in S	%			excha	nger	excha	anger
diti	Form	ula	А	W	С	Inlet dr	y (wet)	Inlet/out	let water
lo						bu	lb	temperat	ures (°C)
0						tempe °(rature		
A	(-7-16)/(Tdesi	gnh-16)	88	N/A	N/A	-7(.8)	a/	34
В	(+2-16)/ (Tdes	signh-16)	54	N/A	N/A	2(1)	a/	30
С	(+7-16)/(Tdes	ignh-16)	35	N/A	N/A	7(6)	a/	27
D	(+12-16)/(Tde	signh-16)	15	N/A	N/A	12(11)	a/	24
E	() (T)	$\frac{10L-10}{10}$	Tdesignn-	$\frac{10}{16}$				a/.	30.3 34
G	(-15-16)/(Tdes	signh-16)	N/A	N/A	N/A	-1	5	N N	/A
Remark: a) Wi	th the water flo	w rate as de	termine	d at the s	standard	rating co	nditions	given in El	V14511-2
at 30/35 condit	tions, the capa	city is 12.135	kW, the	power is	s 2.631kV	N, the C	OP is 4.	61kW/kW.	
2.Tested dat	a/correction	data(Avera	age):						
General test	Unit	A(-7)/W34	A2/	W30	A7/W2	7 A12	2/W24	A(-	A(-
conditions/		(88%)	(54	4%)	(35%)) (1	5%)	10)/W35.	7)/W34
Pan-Load								3 (100%)	(88%)
								(10070)	
Data		A	4.4	B	C	0 1	D	E	F
Data	nn: min:sec	3:00:00	1:10	0:00	1:10:0	0 1:	10:00	3:00:00	3:00:00
period									
The heat		Yes	Ν	10	No		No	Yes	Yes
pump defrosts									
Complete Cycles		2		0	0		0	2	2
Barometric	kPa	101.02	101	1.01	101.01	1 10	1.02	101.01	101.02
pressure									
Voltage	V	230.2	23	0.3	230.7	2	29.6	230.0	230.2
Current input	А	13.39	5.	37	4.84	4	.19	14.08	13.39
of the unit									
Power input	kW	3.038	1.1	170	1.054	. 0	.901	3.203	3.038
of the unit									
Test conditions	s indoor unit								
Inlet Water	°C	29.69	27	.56	25.66	2	3.44	30.89	29.69
temperature,									
DR	10	00.40*			00.40		0.57	04.07*	00.40*
Outlet Water	ъС.	33.13*	29	.92	28.43		0.57	34.27*	33.13*
DB									

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Test condition	s outdoor unit									
Air inlet temperature, DB	°C	-6.98	2.01	7.02	12.03	-9.98	-6.98			
Air inlet temperature, WB	°C	-8.12	1.00	6.00	11.01	-11.02	-8.12			
Summary of the results										
Total heating capacity	kW	8.458	5.445	6.873	7.756	8.340	8.458			
Effective power input	kW	3.070	1.203	1.086	0.933	3.235	3.070			
Coefficient of performance (COP)		2.75	4.53	6.33	8.31	2.58	2.75			
Compressor frequency	Hz	57	25	25	25	60	57			
		2 1 2	2.13	2.13	2.13	2.13	2.13			
Water flow Remark: * In p	art condition, c	outlet tempera	ature data is reco	prded by a fu	II average co	pmplete cycl	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C)	n/conclusion	outlet tempera	ature data is reco (Average): Tbiv(°C)	-7	Il average co	omplete cycl	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW)	n/conclusion -10 9.561	outlet tempera	(Average): Tbiv(°C) TOL(°C)	-7 -10	Il average co	omplete cycl	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result /	n/conclusion -10 9.561	outlet tempera	(Average): Tbiv(°C) TOL(°C)	-7 -10	Il average co	omplete cycl	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result A	n/conclusion -10 9.561 A, B, C, D, E, Part load	F condition Measured capacity	(Average): Tbiv(°C) TOL(°C) TOL(°C) TOL(°C) TOL(°C)	-7 -10 Cdh	CR	COP at	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result / E	n/conclusion -10 9.561 A, B, C, D, E, Part load 9.561	F condition Measured capacity 8.340	(Average): Tbiv(°C) TOL(°C) TOL(°C) TOL(°C) TOL(°C) 2.58	-7 -10 Cdh 0.90	CR 1.00	COP at p	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result A U U U U E E F	n/conclusion -10 9.561 A, B, C, D, E, Part load 9.561 8.458	F condition Measured capacity 8.340 8.458	(Average): Tbiv(°C) TOL(°C) TOL(°C) ns: COP at measured capacity 2.58 2.75	-7 -10 Cdh 0.90 0.90	CR 1.00 1.00	COP at p 2.4	e's data.			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result A S S E E F A	m ^{-yn} art condition, c n/conclusion -10 9.561 9.561 A, B, C, D, E, Part load 9.561 8.458 8.458	F condition Measured capacity 8.340 8.458 8.458	(Average): Tbiv(°C) TOL(°C) TOL(°C) TOL(°C) 2.58 2.75 2.75	-7 -10 Cdh 0.90 0.90 0.90	CR 1.00 1.00	COP at p 2.4 2.5 2.5	e's data. Dart load			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result A U U U U D D C C E F A B	n/conclusion -10 9.561 9.561 Part load 9.561 8.458 8.458 5.148	2.13 putlet temperative potter for SCOP(F condition Measured capacity 8.340 8.458 8.458 5.445	Ature data is reco (Average): Tbiv(°C) TOL(°C) TOL(°C) 15: COP at measured capacity 2.58 2.75 2.75 4.53	-7 -10 Cdh 0.90 0.90 0.90 0.90	CR 1.00 1.00 0.95	COP at p 2.3 2.3 2.3 2.3 4.4	e's data. bart load 58 75 75 53			
Water flow Remark: * In p 3.Calculatio Tdesignh(°C) Pdesignh(kW) Test result A U U U D D C	n/conclusion -10 9.561 9.561 9.561 9.561 9.561 9.561 8.458 8.458 8.458 5.148 3.310	2.13 putlet temperative putlet temperative for SCOP(F condition Measured capacity 8.340 8.458 8.458 5.445 6.873	Ature data is reco (Average): Tbiv(°C) TOL(°C) TOL(°C) 15: COP at measured capacity 2.58 2.75 2.75 4.53 6.33	-7 -10 Cdh 0.90 0.90 0.90 0.90 0.90	CR 1.00 1.00 0.95 0.48	COP at p 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	e's data. bart load 58 75 53 71			





Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.016
Standby mode [P _{SB}]	kW	0.014
Crankcase heater [P _{CK}]	kW	0.039
Off mode [P _{OFF}]	kW	0.014
Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.46
SCOP:	kWh/kWh	4.45
Q _H :	kWh/year	19753
Q _{HE} :	kWh/year	4437
$\eta_{s,h}$	%	175.1
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)		A+++







Table 2.	Heating mode(Medium temperature application):							F	2
Model	MONOBLOCK	MONOBLOCK TF16EVI R32 CT 220V							
Product type	Air to Water	Heating season	7	Averag e		Warmer		Colder	
1. Test cond	itions:		1	<u> </u>					
		Part Loa	d Ratio			Outdoo	or heat	Indoo	r heat
u		in S	%			excha	nger	excha	anger
diti	Form	nula	Α	W	С	Inlet dr	y (wet)	Inlet/out	let water
ouo						bu	lb	temperat	ures (°C)
C						tempe °(rature C		
A	(-7-16)/(Tdesi	gnh-16)	88	N/A	N/A	-7(-	·8)	a/	52
В	(+2-16)/ (Tdes	signh-16)	54	N/A	N/A	2(1)	a/	42
C	(+7-16)/(Tdes	ignh-16)	35	N/A	N/A	7(5)	a /	36
D	(+12-16)/(Tde	signh-16)	15	N/A	N/A	12(11)	a/	30
E	(/T	(TOL-16)/ (TO	designn.	-16) b 16)				a/:	52
F G	() (11-15-16)/(Tdee	bivalent-16)/(1Π-16) N/Δ	NI/A	1 D	1V 5	a/	52 /A
Remark: a) Wi	th the water flo	w rate as de	termine	d at the s	tandard	rating co	<u>.</u> nditions	aiven in Fl	14511-2
at 47/55 condit	ions, the capa	city is 12.163	skW, the	e power is	s 4.152kV	V, the CO	DP is 2.	93kW/kW.	
2.Tested dat	a/correction	data(Avera	age):						
General test	Unit	A(-7)/W52	A2/	W42	A7/W3	6 A12	2/W30	A(-	A(-
conditions/		(88%)	(54	4%)	(35%)) (1	5%)	10)/W55.	7)/W52
Part-Load								3 (100%)	(88%)
		А		В	С		D	E	F
Data collection period	hh: min:sec	3:00:00	1:1	0:00	1:10:0	0 1:'	10:00	3:00:00	3:00:00
The heat		Yes	N	lo	No		No	Yes	Yes
pump defrosts									
Complete Cycles		2		0	0		0	2	2
Barometric pressure	kPa	99.85	99	.85	99.85	9	9.80	99.75	99.85
Voltage	V	229.0	23	0.9	230.0	2	29.0	230.8	229.0
Current input of the unit	A	17.69	7.	30	6.44	5	5.53	20.58	17.69
Power input of the unit	kW	3.992	1.6	629	1.427	1	.212	4.757	3.992
Test conditions	s indoor unit								
Inlet Water temperature, DB	°C	45.32	38	.36	33.74	2	8.99	47.94	45.32
Outlet Water temperature, DB	°C	51.10*	41	.88	37.99	3	3.85	54.09*	51.10*

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Appendix restresting								
Test conditions							1	
Air inlet temperature, DB	°C	-6.84	1.99	7.02	12.01	-9.94	-6.84	
Air inlet temperature, WB	°C	-7.92	1.01	6.00	11.00	-10.99	-7.92	
Summary of th	e results							
Total heating capacity	kW	8.919	5.453	6.582	7.554	9.501	8.919	
Effective power input	kW	4.018	1.655	1.453	1.238	4.782	4.018	
Coefficient of performance (COP)		2.22	3.29	4.53	6.10	1.99	2.22	
Compressor frequency	Hz	50	25	25	25	60	50	
Water flow	m³/h	1.34	1.34	1.34	1.34	1.34	1.34	
3.Calculation	n/conclusion	for SCOP	(Average): Tbiv(°C)	-7				
Pdesignh(kW)	10.082		TOL(°C)	-10				
Testastall								
Condition	Part load	Reasured capacity	COP at measured capacity	Cdh	CR	COP at	part load	
E	10.082	9.501	1.99	0.90	1.00	1.5	99	
F	8.919	8.919	2.22	0.90	1.00	2.	22	
A	8.919	8.919	2.22	0.90	1.00	2.:	22	
В	5.429	5.453	3.29	0.90	1.00	3.2	29	
С	3.490	6.582	4.53	0.90	0.53	4.	16	
D	1.551	7.554	6.10	0.90	0.21	4.4	40	
CR: part load of	divided by capa	icity;						







Electric power consumptions	Unit	Value
Thermostat-off mode $[P_{TO}]$	kW	0.016
Standby mode [P _{SB}]	kW	0.014
Crankcase heater [P _{CK}]	kW	0.039
Off mode [P _{OFF}]	kW	0.014
Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.33
SCOP:	kWh/kWh	3.32
Q _H :	kWh/year	20829
Q _{HE} :	kWh/year	6269
$\eta_{s,h}$	%	129.9
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)		A++







Table 3.	3. Clause 4 of EN 14511-4:2022				
Model	MONOBLOO	CK TF16EVI R	32 CT 220	1	
Customer Code	Execution Date [dd- mm-yyyy]	Testing item	Standard Reference	Comment	Test Response
TEST 1	17-05-2023	STARTING TEST	EN14511- 4:2022, § 4.2.1.2 Table 3	The "lower" starting operating conditions declared by the manufacturer for the heating mode- i.e. Tair=-25.03°C, T out water 14.81°C, Flow rate 1.20m ³ /h have been set and obtained. At those conditions, the machine was switched on. It started without any problem and worked for 30 minutes without showing any warning or allarm. During the test the machine operated in automode. No damage was recorded on the machine during and after the test.	Passed
TEST 2	17-05-2023	OPERATIN G TEST	EN14511- 4:2022, § 4.2.1.2 Table 3	From the machine "lower" starting conditions - i.e the machine was brought to the lower operating conditions declared by the manufacturer for the heating mode- i.e. Tair=- 25.01°C, T out water 56.33°C, Flow rate 1.20m ³ /h. Once these conditions were obtained, the machine was let operate for over 1 hour in automode. During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.	Passed
TEST 3	17-05-2023	SHUTTING OFF WATER FLOW	EN14511- 4:2022, § 4.5	The water flow rate was shutted off through manual and automatic valves of the test rig. The machine switched off and only the flow switch Protection appeared on the user interface of indoor unit. Perform error reset operation , once the water flow rate was restored, the machine restarted automatically and worked for 30 minutes normally. No damage was recorded on the machine during and after the test.	Passed
TEST 4	17-05-2023	SHUTTING OFF AIR FLOW	EN14511- 4:2022, § 4.5	The air flow rate was shutted off through a plastic sheet and a panel. The machine never turned off. It continued to operate with continuous frosting and defrosting cycles. After more than half an hour, the air flow rate was restored and the machine started to operate normally. During the test, no waring or alarm were showed. No damage was recorded on the machine during and after the test.	Passed
TEST 5	17-05-2023	Complete Power Supply Failure	EN14511- 4:2022, § 4.6	The power supply was cut off for about 10 seconds. The unit restarted automatically within about 3 minutes after the power supply was reactivated.	Passed

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Table 4a.	Sound power leve	el measurement(Low te	emperature application)	Р				
Model	MONOBLOCK TF	MONOBLOCK TF16EVI R32 CT 220V						
	Product type :	Product type :						
	Outdoor heat exch	anger, Air temperature D	DB/WB (°C):	7.0 / 6.0				
	Indoor heat exchar	nger, Water inlet/outlet te	emperature (°C):	30.0 / 35.0				
	Voltage (V):			230				
	Frequency (Hz):			50				
	Working condition	Working condition class :						
	Acoustical environ	Hemi-anechoic room						
	Windshield type :			Sponge				
	Measured position	amount :		14				
	Water flow (m ³ /h):			2.13				
Mea	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark				
Sound press	sure level $L_{p(ST)}^{****}$		52					
Measuremer	nt distance d *		1.0m					
Sound powe	67							
Setting of co Duct connec Rounding to	ntrols: according to us stion: : *) 1 decimal places;	ser manual. **) 2 decimal places; ***)	3 decimal places; ****) ne	earest integer				

Fan speed: 640 r/min, compressor frequency: 36Hz.

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Table 4b.	Sound power leve application)	Sound power level measurement(Medium temperature application)							
Model	MONOBLOCK TF1	MONOBLOCK TF16EVI R32 CT 220V							
	Product type :								
	Outdoor heat excha	nger, Air temperature D	DB/WB (°C):	7.0 / 6.0					
	Indoor heat exchan	ger, Water inlet/outlet te	emperature (°C):	47.0 / 55.0					
	Voltage (V):			230					
	Frequency (Hz):			50					
	Working condition c	lass :		Class A					
	Acoustical environment :								
	Windshield type :			Sponge					
	Measured position a	amount :		14					
	Water flow (m ³ /h):	1.34							
Mea	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark					
Sound press	sure level `L _{p(ST)} ****		53						
Measureme	1.0m								
Sound powe									
Setting of co Duct connect Bounding to	ontrols: according to us tion: : *) 1 decimal places: *	er manual.	a decimal places: ****) n	l earest integer					

Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integ Fan speed: 660 r/min, compressor frequency: 45Hz.



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Nameplate

lodel: MONOBLOCK TF16EVI R32 CT 22	<u>ov</u>				
The	ermoFLUX				
EVI DC Inverter	EVI DC Inverter toplotna pumpa zrak - voda				
EVI DC Inver	EVI DC Inverter Air Source Heat Pumps				
Model	MONOBLOCK TF16EVI R32 CT 220V				
Napaianie					
Power Supply	220-240V~/50Hz				
Kapacitet grijanja Min./Max					
Heating Capacity Min./Max.	7.36/16kW				
Potrošnja el. energije - grija	nje da se da				
Heating Input Power Min./M	1.25/3.4kW				
Kapacitet hlađenja Min./Ma	x				
Cooling Capacity Min./Max.	4.8/10.44kW				
Potrošnja el. energije - hlađe	enje				
Cooling Input Power Min./N	1.25/3.93kW				
Prosječna potrošnja/Jačina s	struje				
Rated. Input Power/Current	4.9KW/23.6A				
Max. temperatura polaza vo	de sec				
Max. Water Outlet Temperat	ture				
Protok	27.34				
Water Flow	2.7m ² /h				
Rashladno sredstvo / težina					
Refrigerant/Weight	K32/2100g				
Niski i Visoki radni pritisak f	freona d E (4 404D-				
Low/High side operation pre	essure				
Max. dozvoljeni pritisak fred	ona (thip-				
Maximum allowable pressur	re 4.4MPa				
Max. pritisak vode	1.010-				
Max Water Pressure	1.0MPa				
Klasa otpornosti na strujni u	ıdar _				
Electric Shock Proof Grade	1				
Klasa vodootpornosti	IBX4				
WaterProof Level	IFA4				
Pad pritiska na vodenoj stra	ni 21kPa				
Water Pressure Drop	218Fa				
Hidraulički priključak	1"				
Water Pipe Connection					
Netto težina	984				
Net Weight	58Kg				
Datum:/Serijski broj:	Pogledati bar code				
Date: /NO.:	See bar code				
Ekvivalentna teži	na punjenja sustava CO2: 1,42 tona				
System CO2 aq	uivalent charge weight: 1.42 ton				
	ThermoFLUX d.o.o.				
Ba	age br. 3, 70101 Jajce				
E E	Bosna i Hercegovina				
L V	www.thermoflux.ba				

Remark: -

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TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch, TÜV SÜD Group 5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou 510656, China Tel: +86 20 38320668



Froduct Service





Appendix III photo documentaiton

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Details of:	Fan Motor			
View: General Front Rear Right Left Dop Bottom	WOLONS 新 动 机 空 调 用 无 刷 重 燕 鹿 动 机 对 Conditioner BLDC Notor Air Conditioner BLDC Notor TMB378D98A DC310V ④ TMB378D98A DC310V ⑥ TMB378D98A DC310V ⑦ TMB378D98A DC310V ⑥ TMB378D98A DC310V ⑦ TMB378D98A DC310V 00000000000000000000000000000000000			
Details of:	of: Main Control Board			
View: General Front Rear Right Left Dop Bottom				

Appendix III photo documentaiton



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Appendix IV Construction data form

Model: MONOBLOCK TF16EVI R32 CT 220V						
Part		Technical data				
1. Compressor						
	Manufacture:	Panasonic Wanbao Appliances Compressor (Guangzhou)Co.,Ltd.				
	Туре:	9VD420ZAA2J				
	Rated capacity:	4390W				
	Serial-number:	F0007584				
	Specification:	DC280V; R32				
2. Condenser						
	Manufacture:	JIANGSU BAODE HEAT EXCHANGER EQUIPMENT CO.,LTD.				
	Туре:	61-D-30-2M-2L				
	Heat exchanger:	Plate heat exchanger				
	Dimension(mm):	542(L)mmX126(H)mmX83(D)mm				
3. Evaporator						
	Manufacture:	Guangzhou Aotai Refrigeration EquipmentCo.,Ltd.				
	Туре:	04KA-CP-01				
	Heat exchanger:	Finned heat exchanger				
	Dimension(mm):	660(L)mmX900(H)mmX345(D)mm				
4. Fan motor						
	Manufacture:	Wolong Electric Group Co., Ltd				
	Туре:	ZWB378D98A				
	Fan type:	3 blade				
	Specification:	DC310V; 150W				
5. Main control board						
	Manufacture:	CAREL				
	Туре:	UP3A02200T3S0				
	Specification:	220-240V~; 50Hz				



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Appendix V Equipment List

No.	Туре	Manufacture	Model	Equipment ID	Calibration Due Date
1	Heat pump energy efficiency testing system	PINXIN	10HP	2017J00001	2023-11-24
2	Electromagnetic flowmeter	KROHNE	OPTIFLUX4100 C	H17221264	2023-12-21
3	Anechoic rooms (hemi-anechoic rooms)	Guangzhou Kinte	-	NC-036-2	2023-10-07
4	AC source Supply	YANGHONG	YF-3600	VGDS-0637	2023-11-07
5	6 channel data logger	—	PXI-1033	VGDY-0257	2024-05-20
6	PULSE system	B & K	3660C	VGDY-0184	2024-04-12
7	Calibrator	B & K	4231	HJ-000095	2023-06-30
8	Long steel tape	—	5m	HJ-000150	2024-01-01
9	Temperature measurement system	_	_	NC-036-1	2024-06-07
10	Atmospheric pressure meter	—	_	HJ-000165	2023-11-22
11	Constant temperature water system	B & K	—	VGDS-0448	2024-04-18
12	Windscreen	B & K	WS002-5		_

-- End of Report --



