



Technical Report No.: 64.181.23.01520.01 Rev.00

Date: 2023-06-29

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: EVI DC Inverter Air Source Heat Pumps

Model: MONOBLOCK TF16EVI R32 CT 400V

Trade mark: ThermoFLUX

Test specification:

EN 14825:2022

☑ EN 14511-3:2022

☑ EN 14511-4:2022 Clause 4

☑ EN 12102-1:2022

Purpose of Test according to the test specification

examination:

☑ (EU) No 813/2013

☑ 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.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see testing and certification regulation, chapter A-3.4.

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 1 of 18 www.tuvsud.com

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



1.1

1.2



1 Description of the test object

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
Consideration of the foreseeable use
☐ Not applicable
Covered through the applied standard

Covered by the following comment Covered by attached risk analysis

1	.3	Tech	nnical	Data

i echnicai Data	
Model:	MONOBLOCK TF16EVI R32 CT 400V
Rated Voltage (V):	380-420V, 3N~
Rated Frequency (Hz):	50
Rated Power (W):	4900
Rated Current (A):	10.4
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 / 2.00kg

Declared parameters: ☑ Average □ Warmer □ Colder

Sound power level dB(A): N/A

Series No: KRZK07A20400703827

Project No: 64.181.23.01520.01 Rev.: 00

Date: 2023-06-29 Page: 2 of 18

www.tuvsud.com

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





2 Order

2.1 **Date of Purchase Order, Customer's Reference**

Date of Purchase Order: 2022-08-15, 2023-04-18, 2023-06-09

Customer's Reference: ThermoFLUX d.o.o

2.2 Test Sample(s)

> 2022-08-15, 2023-04-18 Reception date(s):

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, Tiantai Yilu, Kaitai Avenue, Science City, Guangzhou, Guangdong, China

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

2.3 Date(s) of Testing

2022-08-15 to 2022-09-19, 2023-04-18 to 2023-05-25

2.4 Location(s) of Testing

Same as 2.2

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

3

☑ 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.

- ☐ Decision rule according to customer's requirements was applied. It is:
- ☐ 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.
- ☐ 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

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 3 of 18

5F&8F East, Communication Building, No.163 Pingyun Road, Huangpu Ave. West, Guangzhou 510656, China



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 par-ticulars 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 resultsAppendix II: Marking plate
- Appendix III: photo documentation
- Appendix IV: Construction data form
- Appendix V: Test equipment list

6 Test History

- These appliances are Air to Water Heat Pump Unit, each one including a whole compression type refrigerant circuit to heat water in another circuit. These appliances were for cooling and heating water function, this report only for heating capacity test.
- 2) The main power is supplied by a 5-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 64.181.23.01520.01 Rev.00, dated 2023-06-29 bases on original test report 64.181.22.03449.02 Rev.00, dated 2023-06-27 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: William Liang, Project Handle

printed name, function & signature

Approved by: Plum Li, Designated Reviewer

printed name, function & signature

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 4 of 18 www.tuvsud.com

TI"N/®



Appendix I	Test results								
Table 1.	Heating mod	e(Low temp		F	•				
Model	MONOBLOCK	K TF16EVI R	32 CT 4	400V					
Product	Air to Water	Heating	/	Averag		Warm	er 🗆	Colder	
type		season		е					
1. Test cond	litions:							1	
		Part Loa	d Ratio			Outdo	or heat	Indoo	r heat
uo		in ^c	%			exch	anger		anger
Condition	Form	nula	Α	W	С		ry (wet)		let water
l 6							ulb	temperat	ures (°C)
						-	erature C		
А						a/	34		
В	(+2-16)/ (Tdesignh-16) 54 N/A N/A 2(1)				a /	30			
С	(+7-16)/(Tdes		35	N/A	N/A		(6)		27
D	(+12-16)/(Tde		15	N/A	N/A		(11)	_	24
E F		(TOL-16)/ (To					OL bis	+	35.3
G	(-15-16)/(Tdes	oivalent-16)/(N/A	n-16) N/A	N/A		biv 15	+	34 /A
	ith the water flo								
2 at 30/35 con	ditions, the ca	pacity is 12.3	392kW,						
2.Tested dat	ta/correction	data(Avera	age):						
General test	Unit	A(-7)/W34	A2/	W30	A7/W2	.7 A	2/W24	A(-	A(-
conditions/		(88%)	(54	4%)	(35%))	15%)	10)/W35.	7)/W34
Part-Load								3	(88%)
								(100%)	
		А		В	С		D	E	F
Data	hh: min:sec	3:00:00	1:1	0:00	1:10:0	0 1	:10:00	3:00:00	3:00:00
collection									
period The heat		Yes		lo	No		No	Yes	Yes
pump		165	'	NO	INO		NO	165	165
defrosts									
Complete		2		0	0		0	2	2
Cycles									
Barometric	kPa	101.02	10 ⁻	1.02	101.02	2 1	01.02	101.02	101.02
pressure									
Voltage	V	400.2	39	0.8	400.3	3	400.6	399.6	400.2
Current input	Α	6.93	3.	37	2.87		2.73	7.26	6.93
of the unit									
Power input	kW	3.150	1.2	267	1.097	,	0.952	3.359	3.150
of the unit									
Test condition	s indoor unit	•		•					
Inlet Water	°C	29.31	27	.49	25.53	3	23.43	30.76	29.31
temperature,									
DB									
Outlet Water	°C	33.09*	29	.88	28.30)	26.56	34.49*	33.09*
temperature,									
DB									ĺ

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 5 of 18

www.tuvsud.com

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



Appendix i	est results									
Test condition	Test conditions outdoor unit									
Air inlet temperature, DB	°C	-7.05	1.93	7.01	12.01	-9.98	-7.05			
Air inlet temperature, WB	°C	-8.15	1.02	6.00	11.00	-11.10	-8.15			
Summary of the	ne results									
Total heating capacity	kW	9.293	5.925	6.858	7.731	9.189	9.293			
Effective power input	kW	3.175	1.293	1.122	0.977	3.384	3.175			
Coefficient of performance (COP)		2.93	4.58	6.11	7.91	2.72	2.93			
Compressor frequency	Hz	57	25	25	25	60	57			
Water flow	m³/h	2.13	2.13	2.13	2.13	2.13	2.13			

Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.

J. Galculation	s. calculation/contribution to the tage).							
Tdesignh(°C)	-10	Tbiv(°C)	-7					
Pdesignh(kW	10.505	TOL(°C)	-10					
)								

Test result A, B, C, D, E, F conditions:

Tost result A	rest result A, B, G, B, E, r containens.											
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load						
Е	10.505	9.189	2.72	0.90	1.00	2.72						
F	9.293	9.293	2.93	0.90	1.00	2.93						
А	9.293	9.293	2.93	0.90	1.00	2.93						
В	5.657	5.925	4.58	0.90	0.95	4.58						
С	3.636	6.858	6.11	0.90	0.53	5.62						
D	1.616	7.731	7.91	0.90	0.21	5.74						

CR: part load divided by capacity;

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 6 of 18 www.tuvsud.com

TÜV®



Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.019
Standby mode [P _{SB}]	kW	0.018
Crankcase heater [P _{CK}]	kW	0.041
Off mode [P _{OFF}]	kW	0.018

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	4.52
SCOP:	kWh/kWh	4.51
Q _H :	kWh/year	21704
Q _{HE} :	kWh/year	4817
$\eta_{s,h}$	%	177.2
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 2)		A+++

Project No: 64.181.23.01520.01

Date: 2023-06-29

www.tuvsud.com



Appendix i i		/B.B. 11 /						_	
Table 2.	Heating mode(Medium temperature application):								,
Model	MONOBLOCK	K TF16EVI R	32 CT 4	400V					
Product	Air to Water	Heating	V	Averag		Warmer		Colder	
type		season		е					
1. Test cond	litions:		<u></u>			<u> </u>	<u> </u>	<u> </u>	
	T	Part Loa	d Datia			Outdoo	r boot	Indoo	r heat
ے		in ^o		1		excha		excha	
Condition	Form		A A	W	С	Inlet dry			let water
ng I	1 0111	laia				bu	` ,	temperat	
ပိ						tempe		10	u. 00 (0)
						°C			
А	(-7-16)/(Tdesi	gnh-16)	88	N/A	N/A	-7(-	8)	a/	52
В	(+2-16)/ (Tdes		54	N/A	N/A	2(1		a/	
С	(+7-16)/(Tdes		35	N/A	N/A	7(6		a/	
D	(+12-16)/(Tde		15	N/A	N/A	12(a /	
E		(TOL-16)/ (To				TC		a/5	
F G		oivalent-16)/(N/A	nn-16) N/A	N/A	Tb -1:		a/ N	
	(-15-16)/(Tdes								
2 at 47/55 con	nditions, the cap	pacity is 12.5	589kW,			_		•	
	ta/correction								
General test	Unit	A(-7)/W52		W42	A7/W3		2/W30	A(-	A(-
conditions/		(88%)	(54	4%)	(35%)) (1	5%)	10)/W55.	7)/W52
Part-Load								3	(88%)
								(100%)	
		Α		В	С		D	E	F
Data collection period	hh: min:sec	3:00:00	1:1	0:00	1:10:0	0 1:1	0:00	3:00:00	3:00:00
The heat		Yes	١	No	No		No	Yes	Yes
pump									
defrosts									
Complete		1		0	0		0	2	1
Cycles									
Barometric pressure	kPa	101.02	10 ⁻	1.02	101.02	2 10	1.02	101.02	101.02
Voltage	V	400.9	40	00.3	400.6	6 40	01.3	400.4	400.9
Current input	Α	9.02	4.	.16	3.54	3	.08	10.53	9.02
of the unit									
Power input of the unit	kW	4.535	1.648		1.430	1.	202	4.805	4.535
Test condition	s indoor unit		<u></u>					<u> </u>	
Inlet Water	°C	45.43	38	3.44	33.76	28	3.97	47.75	45.43
temperature, DB									
Outlet Water	°C	51.20	41	.99	37.95	33	3.77	54.03	51.20
temperature, DB									

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 8 of 18 www.tuvsud.com

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

Test condition	Test conditions outdoor unit								
Air inlet temperature, DB	°C	-7.07	2.01	7.01	12.01	-9.81	-7.07		
Air inlet temperature, WB	°C	-8.19	1.05	6.00	11.00	-11.10	-8.19		
Summary of the	ne results								
Total heating capacity	kW	9.154	5.586	6.593	7.561	9.792	9.154		
Effective power input	kW	4.552	1.665	1.447	1.219	4.822	4.552		
Coefficient of performance (COP)		2.01	3.36	4.56	6.20	2.03	2.01		
Compressor frequency	Hz	52	25	25	25	60	52		
Water flow	m³/h	1.36	1.36	1.36	1.36	1.36	1.36		

Remark: * In part condition, outlet temperature data is recorded by a full average complete cycle's data.

3.0	Cald	cul	ati	ion/	conc	lus	ion	for	SC	0	P(Αv	erage):
-----	------	-----	-----	------	------	-----	-----	-----	----	---	----	----	-------	----

		(
Tdesignh(°C)	-10	Tbiv(°C)	-7
Pdesignh(kW	10.348	TOL(°C)	-10
)			

Test result A, B, C, D, E, F conditions:

1.000.000.00	Tool Toolat A, B, O, B, E, T Gorialiono.						
Condition	Part load	Measured capacity	COP at measured capacity	Cdh	CR	COP at part load	
Е	10.348	9.792	2.03	0.90	1.00	2.03	
F	9.154	9.154	2.01	0.90	1.00	2.01	
А	9.154	9.154	2.01	0.90	1.00	2.01	
В	5.572	5.586	3.36	0.90	1.00	3.36	
С	3.582	6.593	4.56	0.90	0.54	4.20	
D	1.592	7.561	6.20	0.90	0.21	4.51	

CR: part load divided by capacity;

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 9 of 18 www.tuvsud.com

TÜV®



Electric power consumptions	Unit	Value
Thermostat-off mode [P _{TO}]	kW	0.019
Standby mode [P _{SB}]	kW	0.018
Crankcase heater [P _{CK}]	kW	0.041
Off mode [P _{OFF}]	kW	0.018

Conclusions:	Unit	Value
SCOPon:	kWh/kWh	3.32
SCOP:	kWh/kWh	3.31
Q _H :	kWh/year	21379
Q _{HE} :	kWh/year	6455
$\eta_{s,h}$	%	129.5
Seasonal space heating energy efficiency classes: (According (EU) No 811/2013 Table 1)		A++

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 10 of 18

www.tuvsud.com



Appendix Table 3.	Clause 4 of	ults EN 14511-4:2	0022		Р
Model		CK TF16EVI R			F
Customer	Execution	Testing item	Standard	Comment	Test
Code	Date [dd- mm-yyyy]	rooming item	Reference	GS.IIIIIG.II.	Response
TEST 1	12-05-2023	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=-25.32°C, T out water 14.88°C, Flow rate 1.23m³/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	12-05-2023	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=-25.04°C, T out water 56.31°C, Flow rate 1.23m³/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	12-05-2023	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	12-05-2023	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	12-05-2023	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

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 11 of 18

www.tuvsud.com



Table 4a.	Sound power level application)	measurement(Low to	emperature	Р
Model	MONOBLOCK TF16	SEVI R32 CT 400V		<u> </u>
	Product type :			Air to Water
	Outdoor heat excha	nger, Air temperature I	DB/WB (°C):	7.0 / 6.0
	Indoor heat exchang	ger, Water inlet/outlet t	emperature (°C):	30.0 / 35.0
	Voltage (V):	400		
	Frequency (Hz):	50		
	Working condition c	Class A		
	Acoustical environm	Hemi-anechoic room		
	Windshield type :	Sponge		
	Measured position a	14		
	Water flow (m³/h):			2.13
Meas	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound press	sure level `L _{p(ST)} ****		48	
Measureme	nt distance d *		1.0m	
Sound powe	er level L _{wA} ****		63	

Setting of controls: according to user manual.

Duct connection:--

Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer Fan speed: 460 r/min, compressor frequency: 45Hz.

Project No: 64.181.23.01520.01 Rev.: 00

Date: 2023-06-29 Page: 12 of 18





Table 4b.	Sound power level application)	measurement(Mediu	m temperature	Р
Model	MONOBLOCK TF16	SEVI R32 CT 400V		
	Product type :			Air to Water
	Outdoor heat excha	nger, Air temperature I	DB/WB (°C):	7.0 / 6.0
	Indoor heat exchang	ger, Water inlet/outlet t	emperature (°C):	47.0 / 55.0
	Voltage (V):	400		
	Frequency (Hz):	50		
	Working condition c	Class A		
	Acoustical environm	Hemi-anechoic room		
	Windshield type :	Sponge		
	Measured position a	14		
	Water flow (m³/h):			1.36
Meas	sured quantity	L _{WA,indoors} (dB(A))	L _{WA,outdoors} (dB(A))	Remark
Sound press	sure level `L _{p(ST)} ****		52	
Measureme	nt distance d *		1.0m	
Sound powe	er level L _{wA} ****		67	

Setting of controls: according to user manual.

Duct connection:--

Rounding to: *) 1 decimal places; **) 2 decimal places; ***) 3 decimal places; ****) nearest integer Fan speed: 680 r/min, compressor frequency: 45Hz.

Doc No.: ITC-TTW0902.02E - Rev.12

Project No: 64.181.23.01520.01 Rev.: 00 Date: 2023-06-29

Page: 13 of 18





Appendix II Marking plate

Nameplate

Model: MONOBLOCK TF16EVI R32 CT 400V

		-	 194
l n	erm	OF	JX

EVI DC Inverter toplotna pumpa zrak - voda EVI DC Inverter Air Source Heat Pumps

EVI DC Inverter All	Source Heat Pumps
Model	MONOBLOCK TF16EVI R32 CT 400V
Napajanje	380-420V 3N~/50Hz
Power Supply	360-420V 3N~/3UHZ
Kapacitet grijanja Min./Max.	7.36/16kW
Heating Capacity Min./Max.	7.50/ TORW
Potrošnja el. energije - grijanje	1.25/3.4kW
Heating Input Power Min./Max.	1.23/3.4KVV
Kapacitet hlađenja Min./Max.	4.8/10.44kW
Cooling Capacity Min./Max.	4.8/10.44RVV
Potrošnja el. energije - hlađenje	1 24/2 0264
Cooling Input Power Min./Max.	1.24/3.93kW
Prosječna potrošnja/Jačina struje	4.01-14//10.44
Rated. Input Power/Current	4.9kW/10.4A
Max. temperatura polaza vode	55℃
Max. Water Outlet Temperature	33.0
Protok	2.7m³/h
Water Flow	2./m-/n
Rashladno sredstvo / težina	A 822/2000=
Refrigerant/Weight	R32/2000g
Niski i Visoki radni pritisak freona	1.5/4.4MPa
Low/High side operation pressure	1.3/4.4IVIPa
Max. dozvoljeni pritisak freona	4.4MPa
Maximum allowable pressure	4.4WPa
Max. pritisak vode	1.0MPa
Max Water Pressure	1.UMPa
Klasa otpornosti na strujni udar	I
Electric Shock Proof Grade	-
Klasa vodootpornosti	IPX4
WaterProof Level	IFA4
Pad pritiska na vodenoj strani	21kPa
Water Pressure Drop	ZIKPA
Hidraulički priključak	°1"
Water Pipe Connection	
Netto težina	1051
Net Weight	105kg
Datum:/Serijski broj:	Pogledati bar code
Date: /NO.:	See bar code
Ekvivalentna težina punje	enja sustava CO2: 1,35 tona

Ekvivalentna težina punjenja sustava CO2: 1,35 tona System CO2 aquivalent charge weight: 1.35 ton

ThermoFLUX d.o.o. Bage br. 3, 70101 Jajce Bosna i Hercegovina www.thermoflux.ba



Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 14 of 18 www.tuvsud.com

TÜV®



Appendix III photo documentaiton

Details of:	Overall view
View:	
☐ General	
☐ Front	
□ Rear	
□ Right	
□ Left	
□ Тор	
☐ Bottom	

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 15 of 18 www.tuvsud.com





Appendix III photo documentaiton

Details of:	Fan Motor			
View: General Front Rear Right Left Top Bottom	WOLONG 空调用无關直流电动机 Air Conditioner BLDC Motor ZMB378D98A DC310V ② 150M 8P 900r/min IP24 CLASS E数			

Details of:	Main Control Board		
View: General Front Rear Right Left Top Bottom	Main Control Board		

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 16 of 18 www.tuvsud.com





Appendix IV Construction data form

Model: MONOBLOCK TF16EVI R32 CT 400V						
Part		Technical data				
1. Compressor						
	Manufacture:	Panasonic Wanbao Appliances Compressor (Guangzhou) Co.,Ltd.				
	Туре:	9VD420ZAA2J 4390W F0006867				
	Rated capacity:					
	Serial-number:					
	Specification:	DC280V; R32				
2. Condenser						
	Manufacture:	JIANGSU BAODE HEAT EXCHANGER EQUIPMENT CO.,LTD.				
	Type:	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.				
	Type:	04KA-CP-01				
	Heat exchanger:	Finned-coil heat exchanger				
	Dimension (mm):	660(L)mmX900(H)mmX345(D)mm				
4. Fan motor						
	Manufacture:	Wolong Electric Group Co., Ltd				
	Type:	ZWB378D98A				
	Fan type:	3 blade				
	Specification:	DC310V; 150W				
5. Main control board						
	Manufacture:	CAREL				
	Type:	UP3A02200T3S0				
	Specification:	220-240V; 50Hz				

Project No: 64.181.23.01520.01

Rev.: 00 Date: 2023-06-29 Page: 17 of 18







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	2022-11-07
5	6 channel data logger	_	PXI-1033	VGDY-0257	2023-05-20
6	PULSE system	B & K	3660C	VGDY-0184	2023-04-12
7	Calibrator	B & K	4231	HJ-000095	2023-06-30
8	Long steel tape	_	5m	HJ-000150	2023-01-04
9	Temperature measurement system	_	_	NC-036-1	2024-06-07
10	Atmospheric pressure meter	_	_	HJ-000165	2022-11-22
11	Constant temperature water system	B & K	_	VGDS-0448	2023-04-18
12	Windscreen	B & K	WS002-5	_	_

-- End of Report --



Date: 2023-06-29 Page: 18 of 18