

Air Conditioner ERP Test Report

Report Number.....: 4931815.57

Tested by (name + signature) : Linda Li

Linda Li

Approved by (name + signature).....: Jacky Zhang

Jacky Zhang

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Testing Laboratory: DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch
Address.....: Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China

Applicant's name: HANTECH İKLİMLENDİRME SAN. TİC.A.Ş.

Address.....: Ziya Gökalp Mah. Süleyman Demirel Blv. No:7E / 138, Başakşehir - İstanbul, Türkiye

Test specification:

Standard: EN 14511-1:2022, EN 14511-2:2022, EN 14511-3:2022, EN 14511-4:2022, EN 14825:2022, EN 12102-1:2022

Test procedure.....: (EU) No 206/2012, (EU) No 626/2011, EU 2017/254, EU 2016/2282

Non-standard test method.....: N/A

Test Report Form No.....: EN 14825-2018 V1.0

Test Report Form(s) Originator DEKRA
.....:

Test item description.....: Air conditioner

Trade Mark.....:



Manufacturer: TCL Air conditioner (Zhong Shan) Co.,Ltd.

Address.....: No.59.Nantou Road West, Nantou Town Zhongshan City, Guangdong P.R. China

Factory: Same as the manufacturer

Model/Type reference.....: Outdoor unit:HNT-M18VMTC/O; Indoor unit :HNT-BN09VMCL/I*2

Ratings.....: 220-240 V~ ,50 Hz, see rating label

Summary of testing:**Tests performed (Test items):**

Cooling capacity

Heating capacity

Standby/off, thermostat off mode power consumption





Testing location:





TCL Air conditioner (Zhong Shan) Co.,Ltd.

No.59.Nantou Road West, Nantou Town Zhongshan City, Guangdong P.R. China

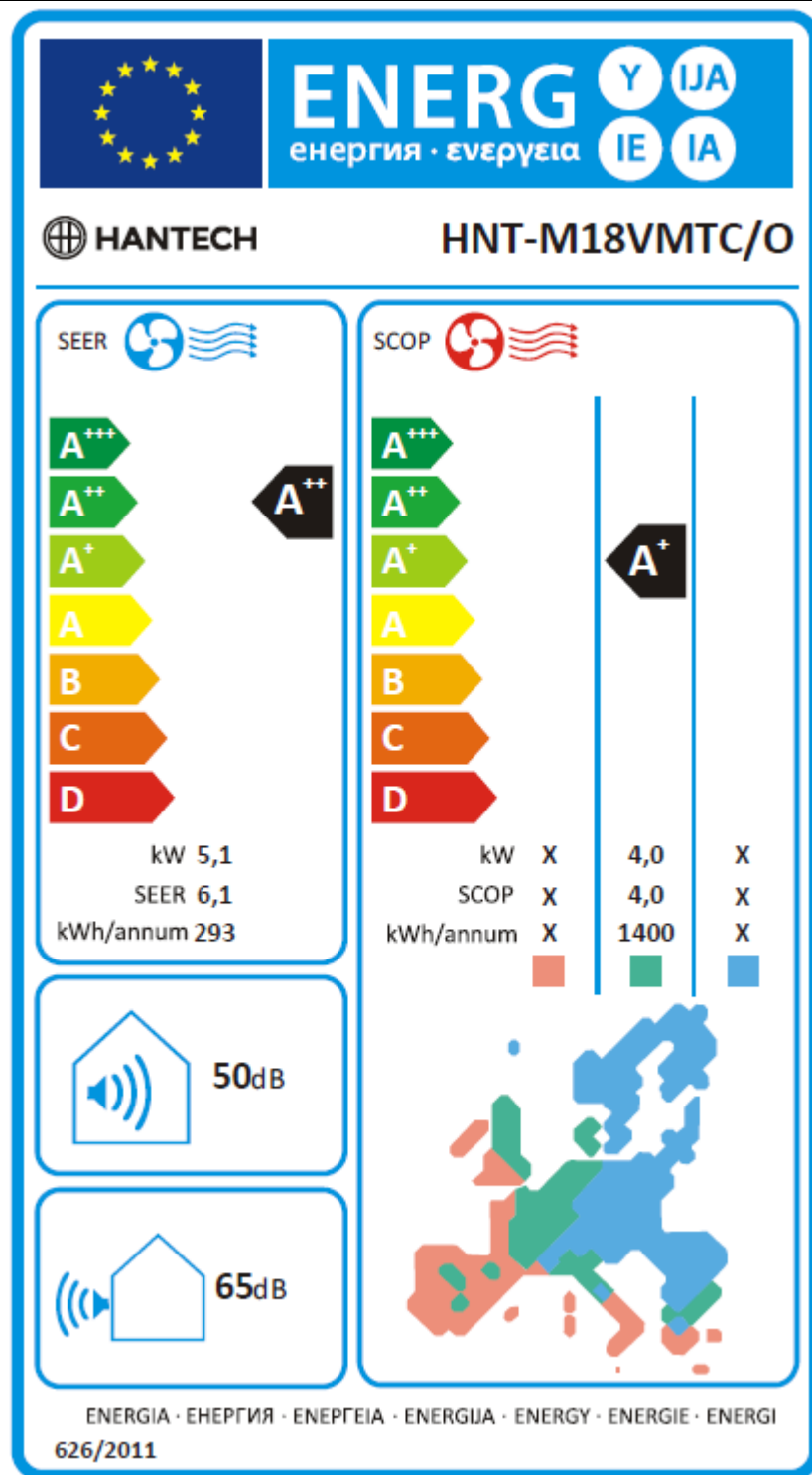
Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBS that own these marks.

 HANTECH  		
SPLIT TYPE AIR CONDITIONER/ OUTDOOR SPLİT TİP KLİMA/ DİŞ ÜNİTE		
OUTDOOR MODEL CODE DİŞ ÜNİTE MODEL KODU	HNT-M18VMTC/O	
	COOLING/ SOĞUTMA	HEATING/ ISITMA
CAPACITY/ KAPASİTE	5100(1230~5600)W	5200(1290~5750)W
CURRENT / ÇALIŞMA AKIMI	7.5(1.3~10.5)A	6.2(1.3~10.5)A
RATED CURRENT / MAKS. AKIM (IEC/EN60335)	10,5A	10,5A
POWER INPUT /ENERJİ TÜKETİMİ	1545(280~2050)W	1333(280~2050)W
RATED POWER INPUT / MAKS.ENERJİ TÜKETİMİ (IEC/EN60335)	2050W	2050W
MAX.ALLOWABLE PRESSURE MAKSİMUM İZİN VERİLEN BASINÇ	DISCHARGE / BASMA	3,7Mpa
	SUCTION /EMİŞ	1,2Mpa
SOUND POWER / SES GÜCÜ SEVİYESİ	65dB(A)	
WEIGHT/ AĞIRLIK	31kg	
RATED VOLTAGE/ANMA GERİLİMİ	220-240V~	
RATED FREQUENCY/ ANMA FREKANSI GERİLİMİ	50Hz	
REFRIGERANT /CHARGE/GWP SOĞUTKAN TİPİ/ŞARJ MİKTARI/GWP	R32/1,1kg/675	
CO ₂ EQUIVALENT / CO ₂ SALINIMI	0,743 TONNES	
CONTAINS FLUORINATED GREENHOUSE GASES / FLORLU SERA GAZLARI İÇERİR		
OUTDOOR UNIT WATER PROOF PROTECTION/ DİŞ ÜNİTE KORUMA SINIFI	IPX4	
MANUFACTURE/ADRES/ DATE ÜRETİCİ FİRMA/ TARİH	TCL AIR CONDITIONER(ZHONGSHAN)CO.,LTD 59, Nantou Road West, Nantou Town, Zhongshan, Guangdong, 528427 China	
IMPORTER / İTHALATÇI	HANTECH İKLİMLENDİRME SAN. TİC.A.Ş. Ziya Gökalp Mah. Süleyman Demirel Blv. No:7E / 138 Başakşehir – İstanbul / Türkiye	
X		
MADE IN CHINA	4 260414 718854	

 HANTECH  		
SPLIT TYPE AIR CONDITIONER/ INDOOR SPLİT TİP KLİMA/ İÇ ÜNİTE		
INDOOR MODEL CODE İÇ ÜNİTE MODEL KODU	HNT-BN09VMCL/I	
	COOLING/ SOĞUTMA	HEATING/ ISITMA
CAPACITY/ KAPASİTE	9000Btu/h	9000Btu/h
CURRENT / ÇALIŞMA AKIMI	0,2A	0,2A
RATED CURRENT / MAKS. AKIM (IEC/EN60335)	0,2A	0,2A
POWER INPUT /ENERJİ TÜKETİMİ	35W	35W
RATED POWER INPUT / MAKS.ENERJİ TÜKETİMİ	35W	35W
INDOOR AIR VOLUME / İÇ ÜNİTE HAVA DEBİSİ	420m ³ /h	420m ³ /h
MAX. PRESSURE MAKSİMUM BASINÇ	DISCHARGE / BASMA	3,7Mpa
	SUCTION /EMİŞ	1,2Mpa
SOUND POWER / SES GÜCÜ SEVİYESİ	50dB(A)	
WEIGHT/ AĞIRLIK	6,5kg	
RATED VOLTAGE/ANMA GERİLİMİ	220-240V~	
RATED FREQUENCY/ ANMA FREKANSI GERİLİMİ	50Hz	
CONTAINS FLUORINATED GREENHOUSE GASES / FLORLU SERA GAZLARI İÇERİR		
INDOOR UNIT WATER PROOF PROTECTION/ İÇ ÜNİTE KORUMA SINIFI	IPX0	
MANUFACTURE/ADRES/ DATE ÜRETİCİ FİRMA/ TARİH	TCL AIR CONDITIONER(ZHONGSHAN)CO.,LTD 59, Nantou Road West, Nantou Town, Zhongshan, Guangdong, 528427 China	
IMPORTER / İTHALATÇI	HANTECH İKLİMLENDİRME SAN. TİC.A.Ş. Ziya Gökalp Mah. Süleyman Demirel Blv. No:7E / 138 Başakşehir – İstanbul / Türkiye	
X		
MADE IN CHINA	4 260414 718151	

Rating label (draft version only for indicating the ratings)



Energy label (draft version only for indicating the ratings)

Test item particulars :	
Classification of installation and use	Fixed appliance
Supply Connection	Non-detachable power supply cord with plug

Possible test case verdicts:	
- test case does not apply to the test object..... :	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing :	
Date of receipt of test item	2023-09-10
Date (s) of performance of tests	2023-09-10 to 2023-09-25

General remarks:
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report, a dot is used as the decimal separator.</p> <p>The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result. The test results presented in this report relate only to the object tested. The information provided by the customer in this report may affect the validity of the results, the test lab is not responsible for it. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. This report is not used for social proof function in China market. This report is based on the original report No.4913313.50,they are same except brand and model number, after reviewed, there's no need to add any test.</p>

General product information:	
Model number of Unit Under Test	Outdoor unit:HNT-M18VMTC/O; Indoor unit :HNT-BN09VMCL/I*2
Type of System	Split type air conditioner
Air-conditioner Type	Cooling and heating
Power Supply	Single Phase
Refrigerant	R32
Unit Mounting (applicable to non ducted indoor units only)	Wall mounted
Heat Source (Heating Mode)	Air
Heat Sink (Cooling Mode)	Air-cooled
Does this air conditioner have a variable output compressor?	Yes
Type of compressor	inverter
Maximum continuous frequency for cooling (applicable to inverter driven compressor only) (Hz)	90
Maximum continuous frequency for heating (applicable to inverter driven compressor only) (Hz)	106
This report is based on the original report No.4903836.50, they are same except brand and model number, after reviewed, there's no need to add any test.	

Test and verification results			
Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
2a)	From 1 January 2013: Single duct and double duct air conditioners shall correspond to requirements as indicated in Tables 1, 2 and 3		N/A
Table 1	Requirements for minimum energy efficiency		N/A
Table 2	Off mode: Power consumption of equipment in any off-mode condition shall not exceed 1,00 W		N/A
	Standby mode: The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 1,00 W.		N/A
	Standby mode: The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 W.		N/A
	Availability of standby and/or off mode Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.		N/A
Table 3	Indoor sound power level no more than 65 dB(A)		N/A
2b)	From 1 January 2013, air conditioners, except single and double duct air conditioners, shall correspond to minimum energy efficiency and maximum sound power level requirements as indicated in Tables 4 and 5		N/A
Table 4	Requirements for minimum energy efficiency		P
Table 5	Requirements for maximum sound power level		P
2c)	From 1 January 2014, air conditioners shall correspond to requirements as indicated in the table 6		P
2d)	From 1 January 2014, single duct and double duct air conditioners and comfort fans shall correspond to requirements as indicated in Table 7		N/A
Table 7	Off mode: Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.		N/A

Clause	Ecodesign requirements - GENERIC ECODESIGN REQUIREMENTS	Result - Remark	Verdict
	Standby mode: The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W.		N/A
	Standby mode: The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display shall not exceed 1,00 W.		N/A
	Availability of standby and/or off mode Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.		N/A
	Power management When equipment is not providing the main function, or when other energy- using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: — standby mode, or — off mode, or — another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery.		N/A

Information requirements for air conditioners, except double duct and single duct air conditioners							
Function (indicate if present)				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling	Y			Average (mandatory)	Y		
heating	Y			Warmer (if designated)	N		
				Colder (if designated)	N		
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	P _{designc}	5.1	kW	cooling	SEER	6.10	—
heating/Average	P _{designh}	4.0	kW	heating/Average	SCOP/A	4.00	—
heating/Warmer	P _{designh}	N/A	kW	heating/Warmer	SCOP/W	N/A	—
heating/Colder	P _{designh}	N/A	kW	heating/Colder	SCOP/C	N/A	—
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature T _j				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature T _j			
T _j = 35 °C	P _{dc}	5.102	kW	T _j = 35 °C	EER _d	3.50	—
T _j = 30 °C	P _{dc}	3.503	kW	T _j = 30 °C	EER _d	5.03	—
T _j = 25 °C	P _{dc}	2.392	kW	T _j = 25 °C	EER _d	7.77	—
T _j = 20 °C	P _{dc}	1.255	kW	T _j = 20 °C	EER _d	10.12	—
Declared capacity (*) for heating/Average season, at indoor temperature 20°C and outdoor temperature T _j				Declared coefficient of performance (*)/Average season, at indoor temperature 20°C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.540	kW	T _j = - 7 °C	COP _d	2.66	—
T _j = 2 °C	P _{dh}	2.150	kW	T _j = 2 °C	COP _d	4.11	—
T _j = 7 °C	P _{dh}	1.562	kW	T _j = 7 °C	COP _d	5.19	—
T _j = 12 °C	P _{dh}	1.536	kW	T _j = 12 °C	COP _d	5.82	—
T _j = bivalent temperature	P _{dh}	3.540	kW	T _j = bivalent temperature	COP _d	2.66	—
T _j = operating limit	P _{dh}	3.404	kW	T _j = operating limit	COP _d	2.36	—
Declared capacity (*) for heating/Warmer season, at indoor temperature 20°C and outdoor temperature T _j				Declared coefficient of performance (*)/Warmer season, at indoor temperature 20°C and outdoor temperature T _j			
T _j = 2 °C	P _{dh}	N/A	kW	T _j = 2 °C	COP _d	N/A	—
T _j = 7 °C	P _{dh}	N/A	kW	T _j = 7 °C	COP _d	N/A	—
T _j = 12 °C	P _{dh}	N/A	kW	T _j = 12 °C	COP _d	N/A	—
T _j = bivalent temperature	P _{dh}	N/A	kW	T _j = bivalent temperature	COP _d	N/A	—
T _j = operating limit	P _{dh}	N/A	kW	T _j = operating limit	COP _d	N/A	—

Declared capacity (*) for heating/Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance (*) /Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	N/A	kW	Tj = - 7 °C	COPd	N/A	—
Tj = 2 °C	Pdh	N/A	kW	Tj = 2 °C	COPd	N/A	—
Tj = 7 °C	Pdh	N/A	kW	Tj = 7 °C	COPd	N/A	—
Tj = 12 °C	Pdh	N/A	kW	Tj = 12 °C	COPd	N/A	—
Tj = bivalent temperature	Pdh	N/A	kW	Tj = bivalent temperature	COPd	N/A	—
Tj = operating limit	Pdh	N/A	kW	Tj = operating limit	COPd	N/A	—
Tj = - 15 °C	Pdh	N/A	kW	Tj = - 15 °C	COPd	N/A	—
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-7	°C	heating/Average	Tol	-15	°C
heating/Warmer	Tbiv	N/A	°C	heating/Warmer	Tol	N/A	°C
heating/Colder	Tbiv	N/A	°C	heating/Colder	Tol	N/A	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	N/A	kW	for cooling	EERcyc	N/A	—
for heating	Pcyh	N/A	kW	for heating	COPcyc	N/A	—
Degradation coefficient cooling (**)	Cdc	0.25	—	Degradation coefficient heating (**)	Cdh	0.25	—
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	POFF	—	kW	cooling	QCE	293	kWh/a
standby mode	PSB	0.008	kW	heating/Average	QHE	1400	kWh/a
thermostat-off mode	PTO	0.042	kW	heating/Warmer	QHE	—	kWh/a
crankcase heater mode	PCK	—	kW	heating/Colder	QHE	—	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed	N			Sound power level (indoor/outdoor)	LWA	50/50/65	dB(A)
staged	N			Global warming potential	GWP	675 (R32)	kgCO2 eq.
variable	Y			Rated air flow (indoor/outdoor)	—	550/550/2600	m ³ /h

Information requirements for single duct and double duct air conditioners.			
Information to identify the model(s) to which the information relates to [fill in as necessary]			
Description	Symbol	Value	Unit
Rated output power for cooling	P_{rated} for cooling	N/A	kW
Rated output power for heating	P_{rated} for heating	N/A	kW
Rated power input for cooling	P_{EER}	N/A	kW
Rated power input for heating	P_{COP}	N/A	kW
Rated Energy efficiency ratio	EER_{rated}	N/A	—
Rated Coefficient of performance	COP_{rated}	N/A	—
Thermostat-off mode power consumption	P_{TO}	N/A	W
Standby mode power consumption	P_{SB}	N/A	W
Off mode power consumption	P_{OFF}	N/A	W
Seasonal electricity consumption for double ducts (DD): hourly electricity consumption for single ducts (SD): hourly electricity consumption	Q	N/A	kWh/60min.
Sound power level (indoor only)	L_{WA}	N/A	dB(A)
Global warming potential of refrigerant	GWP	N/A	kgCO ₂ eq.
Contact details for obtaining more information	N/A		

Table for cooling test data

General test conditions/part load	unit	A35/A27(100%)	A30/A27(74%)	A25/A27(47%)	A20/A27(21%)
-	-	A	B	C	D
Barometric	KPa	100.83	100.59	100.06	100.87
Voltage	V	229.7	229.7	230.0	230.1
Current input	A	6.40	4.59	2.11	0.81
Power input	kW	1.457	0.696	0.308	0.124
Test conditions indoor unit					
Air inlet temperature, DB/WB	°C	27.06/18.98	27.00/18.99	26.94/18.97	26.98/19.03
Air outlet temperature, DB/WB	°C	N/A	N/A	N/A	N/A
Test conditions outdoor unit					
Air inlet temperature, DB/WB	°C	35.04/24.03	30.03/25.03	25.03/15.04	19.99/14.05
Indoor total cooling capacity	kW	5.102	3.503	2.392	1.255
Outdoor total cooling capacity	kW	5.073	3.489	2.401	1.261
Balance ratio	%	0.6	0.4	-0.4	-0.5
Power input	kW	1.457	0.696	0.308	0.124

Energy efficiency ratio	-	3.50	5.03	7.77	10.13
Compressor frequency	Hz	82	49	29	13

Table for heating test data (Average)

General test conditions/part load	unit	A-10/A20 (100%)	A-7/A20 (88%)	A-7/A20 (88%)	A2/A20 (54%)	A7/A20 (35%)	A12/A20 (15%)
-	-	E	F	A	B	C	D
Barometric	KPa	100.41	100.85	100.85	101.00	101.10	101.29
Voltage	V	230.34	230.24	230.24	230.08	230.30	230.76
Current input	A	6.34	6.19	6.19	3.83	2.05	1.80
Power input	kW	1.444	1.333	1.333	0.523	0.301	0.264
Test conditions indoor unit							
Air inlet temperature, DB/WB	°C	20.01/15.00	20.00/15.01	20.00/15.01	20.02/14.99	19.99/14.97	20.00/15.00
Air outlet temperature, DB/WB	°C	29.81/18.34	29.10/18.21	29.10/18.21	25.46/16.86	N/A	N/A
Test conditions outdoor unit							
Air inlet temperature, DB/WB	°C	-10.00/-11.00	-7.01/-7.99	-7.01/-7.99	2.00/1.00	7.01/6.00	12.02/10.98
Summary of the test results							
Indoor total cooling capacity	kW	3.404	3.540	3.540	2.150	1.562	1.536
Outdoor total cooling capacity	kW	N/A	N/A	N/A	N/A	1.562	1.536
Balance ratio	%	N/A	N/A	N/A	N/A	0.0	0.0
Power input	kW	1.444	1.333	1.333	0.523	0.301	0.264
Coefficiency of performance	-	2.36	2.66	2.66	4.11	5.19	5.82
Compressor frequency	Hz	105	95	95	42	27	23

SEER calculation:

	Outdoor air	measured Cooling Capacity	Input Power	EER _{DC/meas}	Cd	EER _{PL}
	°C	kW	kW			
A	35	5.102	1.457	3.50	0.25	3.50
B	30	3.503	0.696	5.03	0.25	5.03

Tj	Part load ratio	Heating demand Ph(Tj)	Bin hours hj	Heat load covered by the heat pump		Capacity ratio	COP _{PL}	COP _{bin} (Tj)	hj x Ph(Tj)	hj * [(Ph(Tj) - elbu(Tj)) / COPbin(Tj) + elbu(Tj)]		COP (including backup heater)	hj * [Ph(Tj) - elbu(Tj)] / COPbin(Tj)	
				pump	elbu(Tj)					Ph(Tj)	elbu(Tj)		Ph(Tj)	elbu(Tj)
-10	100.0%	4.002	1	3.404	0.598	1.18	2.36	2.36	4	2	1.96	3	1.44	
-9	96.2%	3.848	25	3.449	0.398	1.12	2.46	2.46	96	45	2.13	86	35.10	
-8	92.3%	3.694	23	3.495	0.199	1.06	2.56	2.56	85	36	2.36	80	31.44	
A) -7	88.5%	3.540	24	3.540	0.000	1.00	2.66	2.66	85	32	2.66	85	31.99	
-6	84.6%	3.386	27	3.386	0.000	1.00	2.82	2.82	91	32	2.82	91	32.45	
-5	80.8%	3.232	68	3.232	0.000	1.00	2.98	2.98	220	74	2.98	220	73.78	
-4	76.9%	3.078	91	3.078	0.000	1.00	3.14	3.14	280	89	3.14	280	89.19	
-3	73.1%	2.924	89	2.924	0.000	1.00	3.30	3.30	260	79	3.30	260	78.81	
-2	69.2%	2.770	165	2.770	0.000	1.00	3.46	3.46	457	132	3.46	457	131.96	
-1	65.4%	2.617	173	2.617	0.000	1.00	3.63	3.63	453	125	3.63	453	124.84	
0	61.5%	2.463	240	2.463	0.000	1.00	3.79	3.79	591	156	3.79	591	156.05	
1	57.7%	2.309	280	2.309	0.000	1.00	3.95	3.95	646	164	3.95	646	163.69	
B) 2	53.8%	2.155	320	2.155	0.000	1.00	4.11	4.11	690	168	4.11	690	167.73	
3	50.0%	2.001	357	2.001	0.000	1.00	4.30	4.30	714	166	4.30	714	166.23	
4	46.2%	1.847	356	1.847	0.000	1.00	4.48	4.48	658	147	4.48	658	146.65	
5	42.3%	1.693	303	1.693	0.000	1.00	4.67	4.67	513	110	4.67	513	109.85	
6	38.5%	1.539	330	1.539	0.000	1.00	4.86	4.86	508	105	4.86	508	104.59	
C) 7	34.6%	1.385	326	1.385	0.000	1.00	5.04	5.04	452	90	5.04	452	89.55	
8	30.8%	1.231	348	1.231	0.000	1.00	5.02	5.02	428	85	5.02	428	85.30	
9	26.9%	1.077	335	1.077	0.000	1.00	5.00	5.00	361	72	5.00	361	72.12	
10	23.1%	0.923	315	0.923	0.000	1.00	4.98	4.98	291	58	4.98	291	58.35	
11	19.2%	0.770	215	0.770	0.000	1.00	4.97	4.97	165	33	4.97	165	33.32	
D) 12	15.4%	0.616	169	0.616	0.000	1.00	4.95	4.95	104	21	4.95	104	21.03	
13	11.5%	0.462	151	0.462	0.000	1.00	4.9275	4.9275	70	14	4.93	70	14.15	
14	7.7%	0.308	105	0.308	0.000	1.00	4.9083	4.9083	32	7	4.91	32	6.59	
15	3.8%	0.154	74	0.154	0.000	1.00	4.8891	4.8891	11	2	4.89	11	2.33	
16	0.0%		4910											
				1.195				summation		8266	2044	8251	2029	
								SCOPon		4.04		SCOPnet		4.07
								SCOP		4.02				

H _{he}	1400	h			Q _h /SCOP _{on}	1385.138	
H _{TO}	179	h	P _{TO}	0.042	kW	HTO*PTO	7.518
H _{SB}	0	h	P _{SB}	0.008	kW	HSB*PSB	0
H _{CK}	179	h	P _{CK}	0	kW	HCK*PCK	0
H _{OFF}	0	h	P _{OFF}	0	kW	H _{OFF} *P _{OFF}	0
						Q _{he}	1392.656
P _{designh}	4.002	kW					
Q _h	5602.435	kWh					

Item	Measured value	Rated value	Deviation	Verdict
SEER	6.12	6.1	0.3%	P
SCOP(average)	4.02	4.0	0.5%	P
Power consumption in thermostat off mode	N/A	N/A	N/A	N/A
Power consumption in standby mode	8.0 W	8.0 W	0%	P
Remark: For the original qualification test, the rating values should be equal to or more unfavorable than the tested values.				

Table 1

Energy efficiency classes for air conditioners, except double ducts and single ducts

Energy Efficiency Class	SEER	SCOP
A+++	$SEER \geq 8,50$	$SCOP \geq 5,10$
A++	$6,10 \leq SEER < 8,50$	$4,60 \leq SCOP < 5,10$
A+	$5,60 \leq SEER < 6,10$	$4,00 \leq SCOP < 4,60$
A	$5,10 \leq SEER < 5,60$	$3,40 \leq SCOP < 4,00$
B	$4,60 \leq SEER < 5,10$	$3,10 \leq SCOP < 3,40$
C	$4,10 \leq SEER < 4,60$	$2,80 \leq SCOP < 3,10$
D	$3,60 \leq SEER < 4,10$	$2,50 \leq SCOP < 2,80$
E	$3,10 \leq SEER < 3,60$	$2,20 \leq SCOP < 2,50$
F	$2,60 \leq SEER < 3,10$	$1,90 \leq SCOP < 2,20$
G	$SEER < 2,60$	$SCOP < 1,90$

Table for sound power

Indoor 1										
Test voltage / frequency	230V/50Hz									
Air inlet temperature, DB/WB	27.0°C/19.0°C									
Measured surface	6.28m ²									
Background Noise Level [dB]	18.0									
Microphone Position	1	2	3	4	5	6	7	8	9	10
L _{pi} [dB]	39.8	41.9	42.3	42.7	41.4	41.6	43.2	42.3	41.7	42.0
L _{pmc} / Averaged Sound Pressure Level [dB (A)]	41.97									
LW / Sound Power Level [dB (A)]	49.95									
Rated sound Power Level [dB (A)]	50									
Verdict	P									

Indoor 2										
Test voltage / frequency	230V/50Hz									
Air inlet temperature, DB/WB	27.0°C/19.0°C									
Measured surface	6.28m ²									
Background Noise Level [dB]	18.0									
Microphone Position	1	2	3	4	5	6	7	8	9	10
L _{pi} [dB]	39.8	41.7	42.1	42.4	41.2	41.3	42.9	42.1	41.4	41.7
L _{pmc} / Averaged Sound Pressure Level [dB (A)]	41.73									
LW / Sound Power Level [dB (A)]	49.71									
Rated sound Power Level [dB (A)]	50									
Verdict	P									

outdoor					
Test voltage / frequency	230V/50Hz				
Air inlet temperature, DB/WB	35.0°C/24.0°C				
Measured surface	20.36m ²				
Background Noise Level [dB]	18.0				
Microphone Position	1	2	3	4	5
L _{pi} [dB]	50.5	51.1	51.6	51.8	49.2
L _{pmc} / Averaged Sound Pressure Level [dB (A)]	50.93				
LW / Sound Power Level [dB (A)]	64.02				
Rated sound Power Level [dB (A)]	65				
Verdict	P				

Photos:



Indoor- representative model



Outdoor unit



Compressor

End of report