

PISO TECHO

MOV-55CDN1-N
60,000 Btu/h



Anti-Corrosivo



**Ultra
Silencioso**



**Diseño
de Lujo**

ESPECIFICACIONES TÉCNICAS

Ficha Homologada: No

Tipo: Split Unitario Piso Techo

Modo de Operación: Frío Solo

Tipo de Compresor: Inverter

Capacidad Comercial (BTU/H): 60,000 BTU/H

Capacidad de Enfriamiento Máxima (BTU/H): 55,000 BTU/H

Gas Refrigerante: R410A

Factor de Eficiencia: SEER (C) (4,60<=SEER<5,10) SEER 4,69 W/W

Tensión de Funcionamiento: 220V

Frecuencia: 60HZ

Garantía de Fábrica en Compresor: 6 años – On Site

Garantía de Fábrica en Partes: 2 años – On Site

Unidad de Despacho: POR UNIDAD

Marca: MIDEA

PISO TECHO

MOV-55CDN1-N
60,000 Btu/h

Modelo del Evaporador: MUE-55CRDN1-N

Número de Parte Evap: MUE-55CRDN1-N

Modelo del Condensador: MOV-55CDN1-N

Número de Parte: MOV-55CDN1-N

Empaque de Fábrica: Caja

Componentes: Control Remoto, Manual de Usuario, Manual de Instalación

Área a Cubrir (m2): De 80 a 110 mts2 (varía según condición)

Rango de Operación: Desde 22000 hasta 55000 Btu/H

Nivel de Ruido Interior: (Alta-Media-Baja): 58.5/54/53.5 dB (A)

Nivel de Ruido Exterior: 63 dB(A)

Filtro de Aire: Si

Control de Temperatura: Control remoto inalámbrico

Protección Anticorrosiva: GOLD FIN

Tecnología: Inverter

Procedencia: China

Material Unidad Interior: Panel de Plástico Polipropileno

Material Unidad Exterior: Acero Galvanizado

Máxima Longitud de Tubería: 50 mts

Máxima Longitud en Vertical de Tubería: 30 mts

Modelo	Capacidad BTU/h	Refrigerante	Voltaje	Longitud de Tubería	Longitud Vertical
MOV-55CDN1-N	60,000 Btu/h	R410a	220 V	50 mts	30 mts

Modelo Set	Modelo Unidad Interior	Modelo Unidad Exterior
	Dimensiones (WxDxH) mm	Dimensiones (WxDxH) mm
MOV-55CDN1-N	MUE-55CRDN1-N	MOV-55CDN1-N
	1650x235x675 mm	710x710x843 mm
PESO	42 KG	80 KG



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测试中心 Test Center	Guangdong Midea Refrigeration Equipment Co., Ltd.
客户 Client:	Guangdong Midea / GD Midea
测试机型 Test subject	Inverter Split
测试标准 Test specification	QMK-J075.2014-2018
测试目的 Purpose of examination	Pilot test
委托部门 Applied by	R&D

一、描述测试样品信息 Description of the test subject

1.1 功能 Function	Inverter air conditioner		
1.2 技术数据 Technical Data			
被测机型/Model	MOV-55CDN1-N / MUE-55CRDN1-N		
室内机重量 Indoor unit Weight (kg)	/	室外机重量 outdoor unit Weight (kg)	/
额定电压 Rated Voltage (V)	220	额定频率 Rated Frequency (Hz)	60
Rated EER (W/W)	2.78	Rated COP (W/W)	/
Rated cooling capacity(W)	15660	Rated heating capacity(W)	/
制冷设计温度 Tdesignc	35	制冷铭牌值 Pdesignc	15660
制热设计温度 Tdesignh	/	制热铭牌值 Pdesignh	/
Tbiv	/	TOL	/
TOL heating capacity(W)	/	COP at Tol	/
压缩机型号 Comp.	美芝 ATQ420D1UMU	测试日期 Date of Testing	2018-11-21
测试地点 Test location	L7-10 匹焓差-2 室 L7-10P air enthalpy 2 room		
试验员 Tester	Liu Hengjiang/Gu Tao/Gao Li		
审核 Assessor	Li Guanfeng		

二、测试结果 Test Results

1、制冷试验数据 Cooling test data

制冷试验数据 Cooling					
试验条件/负载 General test conditions/Part- Load	单位 Unit	A35/A27 (100%)	A30/A27 (74%)	A25/A27 (47%)	A20/A27 (21%)
		A	B	C	D
数据采集时间 Data collection period	时:分:秒 hh :min :sec	00:35:08	00:35:03	00:35:25	00:35:05
开始取值时刻 Start value time	时:分:秒 hh :min :sec	14:34:53	16:53:48	19:24:39	21:55:55
结束取值时刻 End value time	时:分:秒 hh :min :sec	15:10:01	17:28:51	20:00:04	22:31:00
大气压 Barometric pressure	KPa	101.300	101.480	101.749	102.000

备注：本报告中“/”代表不适用，“—”代表未测试

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额定电压 Voltage	V	220	220	220	220
输入电流Current input of the unit	A	25.71	13.46	6.89	3.57
额定频率Power input of the unit	Hz	60	60	60	60
室内空气入口温度 Air inlet temperature, DB/WB	℃	27.01/19.02	27.00/19.01	27.01/19.02	27.02/19.02
室内空气出口温度 Air outlet temperature, DB/WB	℃	13.14/12.59	15.35/14.57	19.15/16.23	22.85/17.49
室外空气入口温度 Air inlet temperature, DB/WB	℃	35.00/23.99	30.00/24.00	25.00/20.00	20.02/15.03
制冷能力Total cooling capacity	W	15660	11444	7577	4302
输入功率Power input of the unit	W	5633	2938	1476	754
能效比 Energy efficiency ratio(EER)	W/W	2.78	3.90	5.13	5.70
出口风量 Air flow	m ³ /h	2556	2635	2730	2785
压缩机频率Compressor frequency	Hz	72-1400-900-0	46-1400-900-0	25-1400-500-0	11-1400-500-0

三、总结测试 Test data conclusion

1、该设备安装连接管的长度是 7.5 米。

The appliance was installed according to user manual and the connection pipe length is 5m.。

2、本报告是通过空气焓差法测试所得 Air enthalpy method was adopted in this report.。

3、制冷测试部分负荷进行测试的条件下：

The cooling mode part load tests were performed on the condition below:：

	部分负荷率	部分负荷率%	室外空气干球温度	室内空气的干/湿球温度	压缩机频率
	Part load ratio	Part load ratio %	Outdoor air dry bulb temperature ℃	Indoor air dry bulb /wet bulb tempera-ture ℃	The compressor frequency of the appliance
A	(35-16)/(Tdesignc-16)	100	35	27/19	72
B	(30-16)/(Tdesignc-16)	74	30	27/19	46
C	(25-16)/(Tdesignc-16)	47	25	27/19	25
D	(20-16)/(Tdesignc-16)	21	20	27/19	11

4、制热测试部分负荷进行测试的条件下：

The heating mode part load tests were performed on the condition below:

	部分负荷率	部分负荷率	室外空气干/湿球温度	室内空气的干球温度	压缩机频率
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	Part load ratio	Part load ratio %	Outdoor air dry bulb/wet bulb temperature °C	Indoor air dry bulb temperature °C	The compressor frequency of the appliance
A	(-7-16)/(Tdesignh-16)	88	-7/-8	20	—
B	(+2-16)/(Tdesignh-16)	54	2/1	20	—
C	(+7-16)/(Tdesignh-16)	35	7/6	20	—
D	(12-16)/(Tdesignh-16)	15	12/11	20	—
E	(TOL-16)/(Tdesignh-16)	100	-10/-11	20	—
F	(Tbivalent-16)/(Tdesignh-16)	100	-10/-11	20	—

5:The Pto/Psb/Pck/Poff test results

达温停机功率 Pto(KW)	待机功率 Psb(KW)	压缩机曲轴电加热带 Pck(KW)	停机功率 Poff(KW)
0.009	0.0085	0	0.0085

四、季节能效比计算（SEER/SCOP） Annex A calculation for SEER/SCOP

1、制冷 SEER:

试验结果在 A, B, C, D 条件下进行测试 Test result at A, B, C, D conditions as below table :

	部分负荷 Part load	测量能力 Measrued ca-pacity	EER at meas-ured capacity	Cd	CR	EERPL
A	15.660	15.660	2.78	0	1.00	2.78
B	11.539	11.444	3.90	0	1.01	3.90
C	7.418	7.577	5.13	0	0.98	5.13
D	3.297	4.302	5.71	0.25	0.77	5.37

CR:部分负荷除以测量能力 part load divided by capacity;

最后结果 Final result::

SEERon:	4.77	SEER:	4.69
Qc(kWh)	5481	Qce(kWh)	1220
Pdesignc(W)	15660	/	

测试结果判定 Test result judge Verdict 结论	判定标准		测试结果	
	实测制冷量 Pdesign 15660W, 大于判定值: /W		故判定本次制冷量测试	不作判定
	实测制冷 SEER 4.69W/W, 大于判定值: /W/W		故判定本次季节能效测试	不作判定
	制冷 B 工况能力比需要满足 0.9~1.1 之间		故判定本次能力比测试	合格
	制冷 C 工况能力比需要满足 0.9~1.1 之间, (如果 C 工况的频率已经是 D 工况频率, 则无视能力比)		故判定本次能力比测试	合格
Verdict 结论	依据 According to	QMK-J075.2014-2018 按测试方案判定	标准判定本次测试 Conclusion for this test	不作判定

备注: 本报告中 “/” 代表不适用, “—” 代表未测试

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	试验员/Tester	刘恒江/古涛/高立 2018-11-21	审核/ Assessor	李冠锋 2018-11-22
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2、制热 SCOP:

试验结果在 A, B, C, D, E, F 条件下进行测试 Test result at A, B, C, D, E, F conditions as below table:

	部分负荷 Part load	测量能力 Measrued ca-pacity	Cop at meas-ured capacity	Cd	CR	COPPL
Tdesign	—	—	—	—	—	—
E(TOL)	—	—	—	—	—	—
F(Tbiv)	—	—	—	—	—	—
E	—	—	—	—	—	—
F	—	—	—	—	—	—
A	—	—	—	—	—	—
B	—	—	—	—	—	—
C	—	—	—	—	—	—
D	—	—	—	—	—	—
CR:部分负荷除以测量能力 part load divided by capacity;						

最后结果 Final result:

SCOPon:	—	SCOP:	—
Qh(kWh)	—	Qhe(kWh)	—
Pdesignh(W)	—	/	/

测试结果判定 Test result judge	判定标准	测试结果	
	实测制热量 Pdesign /W, 大于判定值: /W	故判定本次制热量测试	/
	实测制热 SCOP /W/W, 大于判定值: /W/W	故判定本次制热季节能效测试	/
	如果 Tbiv (标称工况) 大于等于-7 度, 则 B 工况必须满足 0.9~1.1 之间	故判定本次能力比测试	/
	如果 Tbiv (标称工况) 大于等于-7 度, 则 C 工况必须满足 0.9~1.1 之间 (如果 C 工况的频率已经是 D 工况频率, 则无视能力比)	故判定本次能力比测试	/
	如果 Tbiv (标称工况) 大于等于-7 度, D 工况必须满足 0.9~1.1 之间 (如果 D 工况的频率已经是样机最低频率, 则无视能力比)	故判定本次能力比测试	/
	如果 Tbiv (标称工况) 小于-7 度, 则 A 工况能力比必须满足 0.9~1.1 之间	故判定本次能力比测试	/
	如果 Tbiv (标称工况) 小于-7 度, 则 B 工况能力比必须满足 0.9~1.1 之间	故判定本次能力比测试	/
	如果 Tbiv (标称工况) 小于-7 度, 则 C 工况能力比必须满足 0.9~1.1 之间 (如果 C 工况的频率已经是 D 工况频率, 则无视能力比), D 工况必须满足 0.9~1.1 之间 (如果 D 工况的频率已经是样机最低频率, 则无视能力比)	故判定本次能力比测试	/

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		如果 Tbiv（标称工况）小于-7 度， D 工况能力必须满足 0.9~1.1 之间（如果 D 工况的频率已经是样机最低频率，则无视能力比）	故判定本次能力比测试	/
Verdict 结论	依据 According to	/	标准判定本次测试 Conclusion for this test	/
	试验员/Tester	/	审核/ Assessor	/

-End of report-

报告结束

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Certificate of Product Ratings

AHRI Certified Reference Number : 8993387

Date : 09-12-2019

Model Status : Active

AHRI Type : RCU-A-CB-O

Outdoor Unit Brand Name : MIDEA

Outdoor Unit Model Number : MOV-55CDN1-N

Indoor Type : Mini-Splits

Indoor Model Number(s) : MUE-55CRDN1-N

Rated as follows in accordance with the latest edition of ANSI/AHRI 210/240 with Addenda 1 and 2, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (95F) : 54000

EER (95F) : 9.90

SEER : 15.00

Sold in? : USA, Canada

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