

PISO TECHO

MOV-36CDN1-N
36,000 Btu/h



Anti-Corrosivo



**Ultra
Silencioso**



**Diseño
de Lujo**

ESPECIFICACIONES TÉCNICAS

Ficha Homologada: No

Tipo: Split Unitario Piso Techo

Modo de Operación: Frío

Tipo de Compresor: Inverter

Capacidad Comercial (BTU/H): 36,000 BTU/H

Capacidad de Enfriamiento Máxima (BTU/H): 36,000 BTU/H

Gas Refrigerante: R410A

Factor de Eficiencia: SEER (C)(4,60<=SEER<5,10) SEER 4,66 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-36CDN1-N

36,000 Btu/h

Modelo del Evaporador: MUE-36CRDN1-N

Número de Parte Evap: MUE-36CRDN1-N

Modelo del Condensador: MOV-36CDN1-N

Número de Parte: MOV-36CDN1-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: 14,400 BTU/H hasta 36000 BTU/H

Nivel de Ruido Interior: (Alta-Media-Baja): 52.5/49.5/44.5 dB (A)

Nivel de Ruido Exterior: 55. 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: 30 mts

Máxima Longitud en Vertical de Tubería: 20 mts

Modelo	Capacidad BTU/h	Refrigerante	Voltaje	Longitud de Tubería	Longitud Máxima
MOV-36CDN1-N	36,000 Btu/h	R410a	220 V	30 mts	20 mts

Modelo Set	Modelo Unidad Interior	Modelo Unidad Exterior
	Dimensiones (WxDxH) mm	Dimensiones (WxDxH) mm
MOV-36CDN1-N	MUE-36CRDN1-N	MOV-36CDN1-N
	1285x235x675 mm	710x710x843 mm
PESO	31.2 KG	61.8 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	Midea Group Household Air Conditioning Division Functional Departments Quality Management Testing and Evaluation Modules

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/Mode	MOV-36CDN1-N / MUE-36CRDN1-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)	230	额定频率 Rated Frequency (Hz)	60
Rated EER (W/W)	2.93	Rated COP (W/W)	/
Rated cooling capacity(W)	10053	Rated heating capacity(W)	/
制冷设计温度 Tdesignc	35	制冷铭牌值 Pdesignc	10053
制热设计温度 Tdesignh	-10	制热铭牌值 Pdesignh	/
Tbiv	-7	TOL	-10
TOL heating capacity(W)	/	COP at Tol	/
压缩机型号 Comp.	TNB306FPGMC-L	测试日期 Date of Testing	2018 年 07 月 06 日
测试地点 Test location	L6-10 匹焓差-1 室		
试验员 Tester	Liang Yingfeng / Luo Xiquan / Yang Jinliang		
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	00:35:07	00:35:04	00:35:04	00:35:01
开始取值时刻 Start value time	时:分:秒 hh :min :sec	19:26:24	21:52:07	00:25:57	04:21:17
结束取值时刻 End value time	时:分:秒 hh :min :sec	20:01:31	22:27:11	01:01:01	04:58:18

备注：本报告中“/”代表不适用，“—”代表未测试

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大气压 Barometric pressure	KPa	100.173	100.299	100.321	100.235
额定电压 Voltage	V	230	230	230	230
输入电流 Current input of the unit	A	15.07	13.82	5.56	2.72
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	℃	27.01/19.01	27.00/19.01	27.00/19.02	27.00/19.02
室内空气出口温度 Air outlet temperature, DB/WB	℃	13.25/12.79	12.86/12.43	16.46/15.41	18.05/16.07
室外空气入口温度 Air inlet temperature, DB/WB	℃	35.00/23.97	30.01/23.96	25.01/19.97	20.01/14.98
制冷能力 Total cooling capacity	W	10053	10599	6191	4011
输入功率 Power input of the unit	W	3431	3144	1228	551
能效比 Energy efficiency ratio(EER)	W/W	2.931	3.372	5.042	7.285
出口风量 Air flow	m³/h	1688	1687	1732	1331
压缩机频率 Compressor frequency	Hz	71/高风/高风	71/高风/高风	36/高风/高风	20/低风/低风

三、总结测试 Test data conclusion

1、该设备安装连接管的长度是 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	71
B	(30-16)/(Tdesignc-16)	74	30	27/19	71
C	(25-16)/(Tdesignc-16)	47	25	27/19	36
D	(20-16)/(Tdesignc-16)	21	20	27/19	20

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:

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	部分负荷率 Part load ratio	部分负荷率 Part load ratio %	室外空气干/湿球温度 Outdoor air dry bulb/wet bulb temperature °C	室内空气的干球温度 Indoor air dry bulb temperature °C	压缩机频率 The compressor frequency of the appliance
A	$(-7-16)/(T_{designh}-16)$	88	-7/-8	20	/
B	$(+2-16)/(T_{designh}-16)$	54	2/1	20	/
C	$(+7-16)/(T_{designh}-16)$	35	7/6	20	/
D	$(12-16)/(T_{designh}-16)$	15	12/11	20	/
E	$(TOL-16)/(T_{designh}-16)$	100	-10/-11	20	/
F	$(T_{bivalent}-16)/(T_{designh}-16)$	100	-7/-8	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)
0.0001	0.0084	0	0.0084

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 Measured capacity	EER at measured capacity	Cd	CR	EERPL
A	10053	10053	2.93	0	1.00	2.93
B	7407	10599	3.37	0	0.70	3.12
C	4762	6191	5.04	0	0.77	4.75
D	2116	4011	7.28	0.25	0.53	6.42

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

最后结果 Final result.:

SEERon:	4.75	SEER:	4.66
Qc(kWh)	3519	Qce(kWh)	826
Pdesignc(W)	10053		

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 10053W, 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= 4.66W/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	不作判定
	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	不作判定
Verdict 结论	依据 According to	QMK-J075.2014-2018	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	梁英锋/罗锡泉/杨金亮	审核/ Assessor	李冠锋
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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	/	/	/	0	/	/
E(TOL)	/	/	/	0	/	/
F(Tbiv)	/	/	/	0	/	/
E	/	/	/	0	/	/
F	/	/	/	0	/	/
A	/	/	/	0	/	/
B	/	/	/	0	/	/
C	/	/	/	0	/	/
D	/	/	/	0.25	/	/
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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Verdict 结论	如果 T _{biv} （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		/
	依据 According to	QMK-J075. 2014-2018	标准判定本次测试 Conclusion for this test	/	
	试验员/Tester	梁英锋/罗锡泉/杨金亮	审核/ Assessor	李冠锋	

-End of report-
报告结束

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Certificate of Product Ratings

AHRI Certified Reference Number : 8993384

Date : 05-06-2020

Model Status : Active

AHRI Type : RCU-A-CB-O

Outdoor Unit Brand Name : MIDEA

Outdoor Unit Model Number : MOV-36CDN1-N

Indoor Type : Mini-Splits

Indoor Model Number(s) : MUE-36CRDN1-N

Rated as follows in accordance with the latest edition of AHRI 210/240 with Addendum 1, 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) : 35000

EER (95F) : 9.90

SEER : 15.50

Sold in? : USA, Canada

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†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

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