



**LIGHT
COMMERCIAL
AIR
CONDITIONERS**



Corporate Introduction

Midea Group

From its humble beginnings in 1968, Midea has developed into a large corporation, covering HVAC, appliances, lighting, industrial components, logistics, and real estate. Its 40 years of relentless growth has brought its global turnover to \$22 billion USD in 2011. Consequently, Midea has created over 150,000 jobs all over the world. In addition to providing quality goods to consumers worldwide, Midea is a responsible corporate citizen, and has contributed to several social causes.

Midea believes in creating value through rapid response to market demands, cost-efficient operations and consumer satisfaction. As a result, Midea wields vast production capacities to meet these demands, a fully integrated manufacturing process, and a comprehensive range of affordable, high-quality products to serve its customers.



Midea CAC (MCAC)

As a key part of Midea Group, the Midea Central Air Conditioner (CAC) Business Unit is a professional CAC products supplier and commercial products solution expert. Since 1999 Midea central air-conditioner contributes to the commercial product R&D and technology innovation. By cooperating with the international enterprises plus the independent R&D, Midea CAC achieves big success in the commercial air-conditioner market and has established thousands of sample projects all over the world.

Right now Midea CAC is one of the most professional CAC products supplier as well as the professional project solution provider in marketing, sales, project design and after service etc.



Model Code

Model Code Light Commercial (Indoor Unit)

M H D - 36 C W - R B6

M

Midea

H

Product Category

- C Cassette Type
- T Duct Type
- H High Static Pressure Duct Type
- U Ceiling & Floor Type

D

Designed Time

- A 1st Designed
- B 2st Designed
- C 3st Designed
- D 4st Designed

36

Capacity

Cooling\Heating Capacity
(x1000Btu/h)

C

Function Code

- C Cooling only
- H Cooling & Heating

W

Control Mode

- W Wired Control
- R Remote Control
- E Electric Control
- M Mechanical Control

R

Power Supply

- R 380-420V~, 3ph, 50Hz
- Q&Omit 220-240V~, 1ph, 50Hz

Model Code Light Commercial (Outdoor Unit)

M OU A - 36 H - R

M

Midea

OU

Universal Outdoor Unit

- OU Side Discharge
- OV Top Discharge

A

Designed Time

- A 1st Designed
- B 2st Designed
- C 3st Designed
- D 4st Designed

36

Capacity

Cooling\Heating Capacity
(x1000Btu/h)

H

Function Code




- C Cooling only
- H Cooling & Heating

R

Power Supply

- R 380-420V~, 3ph, 50Hz
- Q&Omit 220-240V~, 1ph, 50Hz

Lineup 2013

Light Commercial	Series	Btu/h							Page No.
	Four-way Cassette R-22	18K	24K	36K	45K	50K			05
	Ceiling & Floor	12K	18K	24K	36K				07
	Duct	12K	18K	24K	36K	45K	50K		09
	Floor Standing		18K	24K	36K		48K		11
	Four-way Cassette R-410A Inverter		18K	24K	30K	36K		48K	13

Universal Outdoor Unit (Side Discharge)

50Hz



12K Btu/h



18K Btu/h



50K Btu/h



24K Btu/h



30K Btu/h



36k,45K, 48k Btu/h

Four-way Cassette R-22



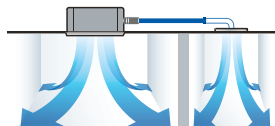
Wide Swing Angle

With the combination of the air outlet panel and auto swing motor (swing angle up to 40°), this unit distributes comfort air flow to every corner of the room.



Reserved Air Outlet

Reserves the space for air outlet from the indoor side; It's availed to connect air duct from the four sides to the nearby small rooms.



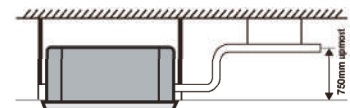
Fresh Air

Fresh air makes air quality healthier and more comfortable.



Built-in Drain Pump















The drain pump can lift the condensing water up to 750mm upmost.



Four-way Cassette-R22

Features

Features: ■ Standard ■ Optional

 Auto Defrosting	 Auto Restart Function	 Anti-Cold Air Function	 LED Display	 Sleep Mode	 Independent Dehumidification
 Slim Design	 Wide-angle Air flow	 Quiet Design	 Timer	 Fresh Air	 Built-in Drain Pump
 Low Ambient Cooling	 Wired Controller				

Specification: Four-way Cassette-R22

PARAMETER		UNIT					
MODEL No INDOOR			MCC-18CR-Q	MCC-24CR-Q	MCC-36CR-R	MCC-45CR-R	MCC-50CR-R
MODEL No OUTDOOR			MOU-18C-Q	MOU-24C-Q	MOU-36C-R	MOU-45C-R	MOU-50C-R
		Btu/h	19100	24385	35100	41750	48900
COMPRESSOR		Type	Rotary	Rotary	Scroll	Rotary	Scroll
RATED POWER SUPPLY		Volts/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
OVERALL SIZE (W x D x H) INDOOR (Body)		mm	840x840x230	840x840x230	840x840x300	840x840x300	840x840x300
OVERALL SIZE (W x D x H) INDOOR (Panel)		mm	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
OVERALL SIZE (W x D x H) OUTDOOR		mm	762x282x593	845x335x695	895x313x862	990x354x966	900x340x1167
Net Weight (Kg.)		IDU/ODU	24/35	24/48	28/75	29/75	31/92
PHYSICAL	AIR FLOW RATE (H/M/L)	m ³ /h	940/790/655	1220/1010/820	1648/1501/1326	1650/1412/1264	1830/1480/1120
	NOISE LEVEL (H/M/L)	db (A)	42/39/36	47/40/35	50/45/43	51/46/42	50/45/44
KEY FEATURES	BUIL IN DRAIN PUMP		Yes	Yes	Yes	Yes	Yes
	AUTO RESTART		Yes	Yes	Yes	Yes	Yes
	SLEEP MODE		Yes	Yes	Yes	Yes	Yes
REFRIGERANT	PIPING	Liquid side/ Gas side	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
	REFRIGERANT	Type	R-22	R-22	R-22	R-22	R-22
	MAX. PIPE LENGTH	(M)	30	30	50	50	50
	MAX. DIFFERENCE IN LEVEL	(M)	10	10	20	25	25

Remark:

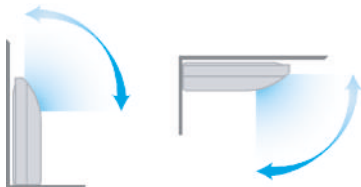
- 1,The above design and specifications are subject to change without prior notice.
- 2,The noise level data reflects the level in anechoic chamber .



Ceiling & Floor

Flexible Installation

The unit can be installed either horizontally on the ceiling or vertically against the wall.



Swing Torsion Angles

The unit has auto horizontal swing and auto vertical swing function, which supplies more even and comfortable airflow.



Ceiling & Floor

Features

Features: ■ Standard ■ Optional



Specification: Ceiling & Floor

PARAMETER		UNIT				
MODEL No INDOOR			MUB-12CR-Q	MUB-18CR-Q	MUB-24CR-Q	MUB-36CR-R
MODEL No OUTDOOR			MOUB-12C-Q	MOU-18C-Q	MOU-24C-Q	MOU-36C-R
NOMINAL COOLING CAPACITY		Btu/h	12400	18300	23800	36600
COMPRESSOR		Type	Rotary	Rotary	Rotary	Scroll
RATED POWER SUPPLY		Volts/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50
OVERALL SIZE (W x D x H) INDOOR (Body)		mm	990×660×203	990×660×203	990×660×203	1280×660×203
OVERALL SIZE (W x D x H) OUTDOOR		mm	780×250×547	762×282×593	845×335×695	895×313×862
Net Weight (Kg.)		IDU/ODU	24/31	24/35	24/48	30/75
PHYSICAL	AIR FLOW RATE (H/M/L)	m ³ /h	600/480/400	1150/1020/870	1150/1020/870	1600/1200/1000
	NOISE LEVEL (H/M/L)	db (A)	41/39/35	50/48/44	50/48/44	50/48/46
KEY FEATURES	AUTO RESTART		Yes	Yes	Yes	Yes
	SLEEP MODE		Yes	Yes	Yes	Yes
	VERTICAL AIR FLOW		Yes	Yes	Yes	Yes
	PIPING	Liquid side/ Gas side	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"
REFRIGERANT	REFRIGERANT	Type	R-22	R-22	R-22	R-22
	MAX. PIPE LENGTH	(M)	15	30	30	50
	MAX. DIFFERENCE IN LEVEL	(M)	8	10	10	20

Remark:

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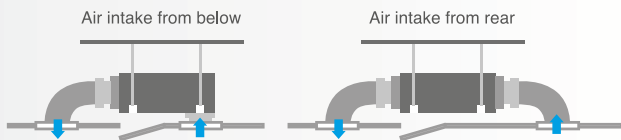
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Duct

Flexible Air Intake Ways

Air inlet from back standard and from bottom optional. The size of the plate from bottom and flange from back is the same, it's easy for installer to change the air inlet from back to bottom.



Optional Accessories

Optional accessories are available to meet the different needs of the customers and enhance the performance of the duct.



Filter



Panel



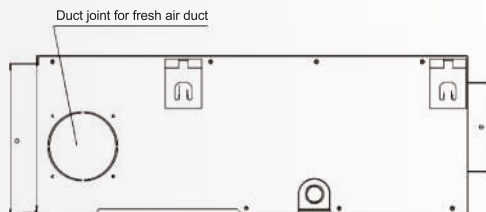
Front board



Canvas air passage

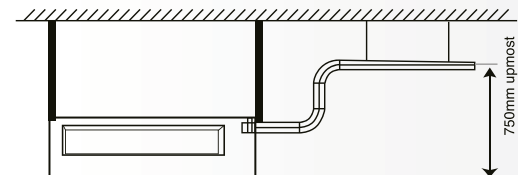
Fresh Air

Fresh air hole as standard, its easy to connect with air



Built-in Drain Pump (optional)

The drain pump can lift the condensing water up to 750mm upmost.



Duct

Features

Features: ■ Standard ■ Optional



Specification: Duct

PARAMETER	UNIT							
MODEL No INDOOR		MTB1-12CW-Q	MTB-18CW-Q	MTB-24CW-Q	MTB-36CW-R	MTB1-45CW-R	MTB-50CW-R	
MODEL No OUTDOOR		MOUB-12CQ	MOU-18CQ	MOU-24CQ	MOU-36C-R	MOU-45CR	MOU-50CR	
NOMINAL COOLING CAPACITY	Btu/h	13300	18100	24300	38900	44300	50300	
COMPRESSOR	Type	Rotary	Rotary	Rotary	Scroll	Rotary	Scroll	
RATED POWER SUPPLY	Volts/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50	380~415/3/50	
OVERALL SIZE (W x D x H) INDOOR (Body)	mm	700x635x210	920x635x210	920x635x270	1140x775x270	1200x865x300	1200x865x300	
OVERALL SIZE (W x D x H) OUTDOOR	mm	780x250x547	762x282x593	845x335x695	895x313x862	990x354x966	900x340x1167	
Net Weight (Kg.)	IDU/ODU	20/31	24/35	28/48	41/75	47/75	47/92	
KEY FEATURES PHYSICAL REFRIGERANT	AIR FLOW RATE (H/M/L)	m ³ /h	800/610/520	1170/770/650	1400/1100/1000	2270/1890/1650	3010/2410/1940	3150/2510/1990
	ESP	Pa	40	70	70	80	100	100
	NOISE LEVEL (H/M/L)	db (A)	37/35/33	43/31/27	44/33/29	49/39/36	49/39/36	48/41/37
	AUTO RESTART		Yes	Yes	Yes	Yes	Yes	Yes
	WIRED CONTROLLER		Yes	Yes	Yes	Yes	Yes	Yes
	PIPING	Liquid side/ Gas side	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
	REFRIGERANT	Type	R-22	R-22	R-22	R-22	R-22	R-22
	MAX. PIPE LENGTH	(M)	15	30	30	50	50	50
	MAX. DIFFERENCE IN LEVEL	(M)	8	10	10	20	25	25

Remark:

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Floor-Standing

Super Slim Design

With super slim indoor unit, the fashionable design brings great visual enjoyment as the home decoration.



Floor-Standing

Features

Features: ■ Standard ■ Optional



Anti-Rust Cabinet



Easy-cleaned Panel



LCD Display



Self-diagnosis & Auto-protection



Valve Protection cover



Independent Dehumidification



Quiet Design



Silver Ion Filter

Specification: Floor-standing

PARAMETER		UNIT				
MODEL No INDOOR			MFGA-18CR-Q	MFGA-24CR-Q	MFGA-36CR-R	MFGA-48CR-RB
MODEL No OUTDOOR			MOC-18C-Q	MOF1-24C-Q	MOUL-36C-R	MOUL-48C-RB
NOMINAL COOLING CAPACITY		Btu/h	17800	24000	33500	40500
COMPRESSOR TYPE			Rotary	Rotary	Rotary	Rotary
RATED POWER SUPPLY		Volts/Ph/Hz	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
OVERALL SIZE (W x D x H) INDOOR		mm	510x240x1695	510x240x1695	550x350x1800	550x350x1800
OVERALL SIZE (W x D x H) OUTDOOR		mm	760x285x590	845x320x700	900x315x860	990x345x965
Net Weight (Kg.)		IDU/ODU	31/37	33/48	49/62	50/75
PHYSICAL	AIR FLOW RATE (H/M/L)	m ³ /h	1000/850	1000/850	1750/1450	1750/1450
	NOISE LEVEL (H/M/L)	db (A)	48/42	50/46	56/51	56/51
KEY FEATURES	AUTO ON TIMER		Yes	Yes	Yes	Yes
	AUTO OFF TIMER		Yes	Yes	Yes	Yes
	DRY MODE		Yes	Yes	Yes	Yes
	AUTO FAN SPEED		Yes	Yes	Yes	Yes
	AUTO SWING		Yes	Yes	Yes	Yes
	AUTO MODE		Yes	Yes	Yes	Yes
	AUTO RESTART		Yes	Yes	Yes	Yes
REFRIGERENT	REFRIGERANT PIPING	Liquid side/ Gas side	1/4" / 1/2"	3/8" / 5/8"	1/2" / 3/4"	1/2" / 3/4"
	REFRIGERANT		R22	R22	R22	R22
	MAX. PIPE LENGTH	(M)	15	20	25	30
	MAX. DIFFERENCE IN LEVEL	(M)	8	10	10	15

Four-way Cassette

R-410A-Inverter Heating Type



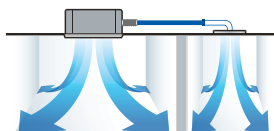
Wide Swing Angle

With the combination of the air outlet panel and auto swing motor (swing angle up to 40°), this unit distributes comfort air flow to every corner of the room.



Reserved Air Outlet

Reserves the space for air outlet from the indoor side; It's availed to connect air duct from the four sides to the nearby small rooms.



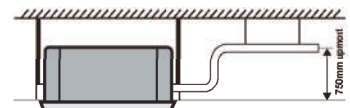
Fresh Air

Fresh air makes air quality healthier and more comfortable.



Built-in Drain Pump

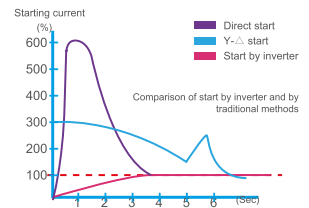
The drain pump can lift the condensing water up to 750mm upmost.



ENHANCED COMFORT

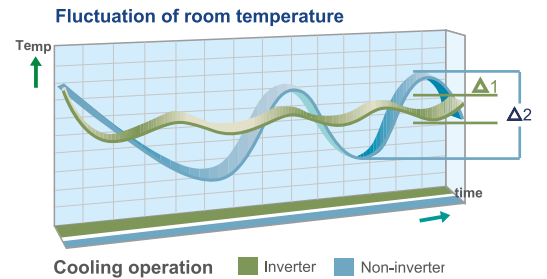
Intelligent soft start technology

DC inverter compressor soft start function reduces strike to the electric network. This kind of high - performance and low sound compressor operates at a faster rate when starting, reducing start-up time. It helps the unit to bring the room temperature up to the set level quickly.



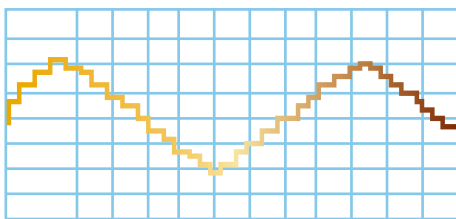
Quick warm-up & cool-down design

Utilizing the inverter compressor benefits, System can reach full load quickly and shorten warm-up or cool-down time for an immediately.

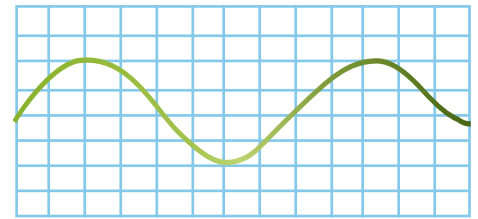


Smooth 180°sine wave DC Inverter

By adoption of the 180°SineWave Inverter which smooths the rotation of the motor, operation efficiency is improved sharply than traditional sawtooth wave.



Common sawtooth wave



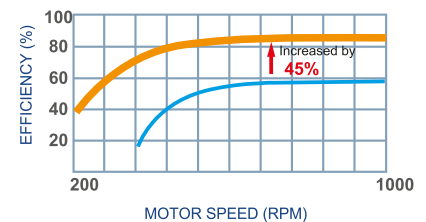
180° Sine Wave DC inverter

DC fan motor

According to the running load and pressure, it controls the speed of DC fan to achieve the min. power consumption.



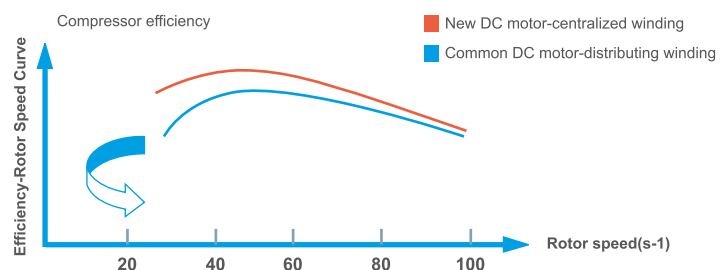
DC motor



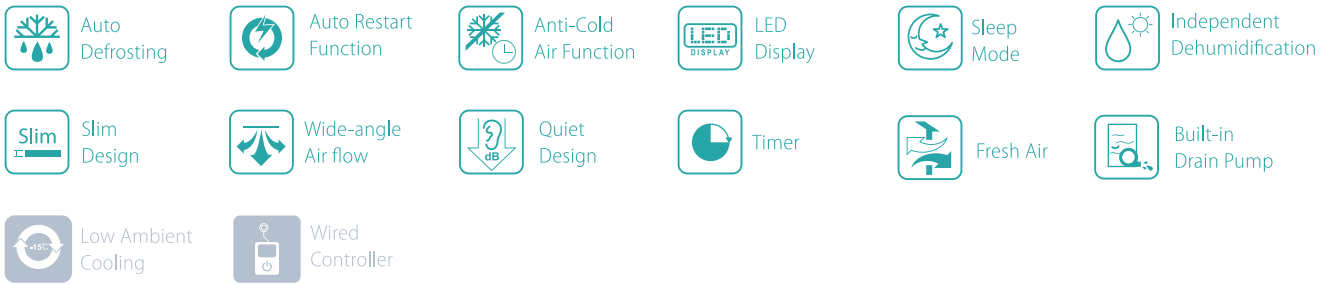
High efficiency full DC inverter compressor

Inverter achieves the industry's top class energy efficiency of cooling and heating by utilizing the Brushless Reluctance DC compressor control, DC Fan motor, and improved performance heat exchanger. High efficiency DC inverter compressor saves power consumption by 25%.

Powerful magnets provide high torque and efficiency and achieve 70% reduction in volume.



Features

 Features: ■ Standard ■ Optional


Specification: Four-way Cassette-R410A Inverter Heating Type

PARAMETER		UNIT					
MODEL No INDOOR			MCD-18HRDN1-Q	MCD-24HRDN1-Q	MCD-30HRDN1-Q	MCD-36HRDN1-Q	MCD-48HRDN1-Q
MODEL No OUTDOOR			MOU-18HDN1-Q	MOU-24HDN1-Q	MOU-30HDN1-Q	MOU-36HDN1-R	MOU-48HDN1-R
NOMINAL COOLING CAPACITY COOLING		Btu/h	17950(9000~20000)	23900(12000~26400)	30000(15000~33000)	37900(18000~39600)	47500(24000~52800)
NOMINAL COOLING CAPACITY HEATING		Btu/h	18800	25900	32800	42100	51000
COMPRESSOR		Type	Rotary	Rotary	Rotary	Rotary	Rotary
RATED POWER SUPPLY		Volts/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
OVERALL SIZE (W x D x H) INDOOR (Body)		mm	840x840x205	840x840x205	840x840x205	840x840x245	840x840x245
OVERALL SIZE (W x D x H) INDOOR (Panel)		mm	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
OVERALL SIZE (W x D x H) OUTDOOR		mm	762x282x593	845x324x695	895x315x862	990x354x966	940x360x1245
Net Weight (Kg.)		IDU/ODU	22/42	22/61	24/71	24/79	27/99
PHYSICAL	AIR FLOW RATE (H/M/L)	m ³ /h	1230/1050/900	1250/1120/920	1580/1450/1340	2010/1750/1480	2010/1750/1480
	NOISE LEVEL (H/M/L)	db (A)	37/34/32	43/41/38	46/45/43	48/46/45	48/46/45
KEY FEATURES	BUIL IN DRAIN PUMP		Yes	Yes	Yes	Yes	Yes
	AUTO RESTART		Yes	Yes	Yes	Yes	Yes
	SLEEP MODE		Yes	Yes	Yes	Yes	Yes
REFRIGERANT	PIPING	Liquid side/ Gas side	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
	REFRIGERANT	Type	R410A	R410A	R410A	R410A	R410A
	MAX. PIPE LENGTH	(M)	25	25	25	30	50
	MAX. DIFFERENCE IN LEVEL	(M)	12	12	15	20	25

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GD Midea Refrigeration Equipment Co., Ltd.
Have received ISO 9001 certification for quality assurance.
Certificate Registration
NO.01 100 019209



GD Midea Refrigeration Equipment Co., Ltd.
Have received environmental management system
Standard ISO 14001 certification
Certificate NO.CC 1417



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