



PRODUCT CATALOGUE

2022



LIGHT COMMERCIAL

AIR CONDITIONER

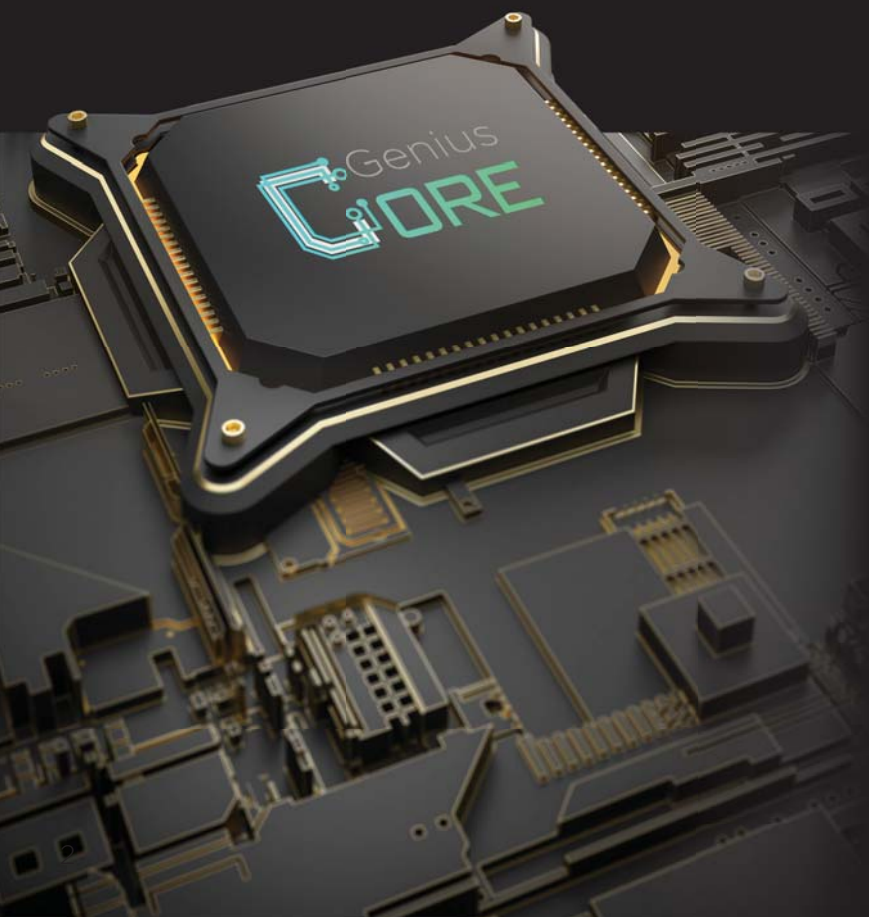
INVERTER TECHNOLOGY



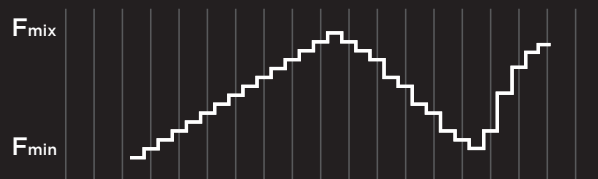
THE EXCLUSIVE INVERTER QUATTRO™ TECHNOLOGY

A brain that calculates your needs in any conditions

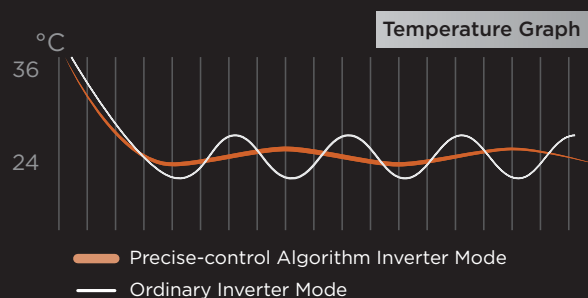
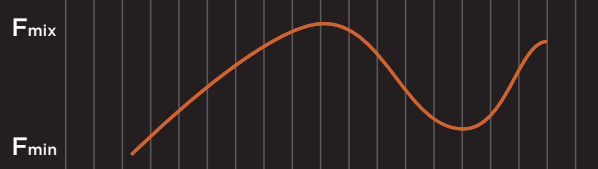
- Up to **71%** Ultra Energy Saving **65Hz in 6 seconds** Flash Cooling
- Within **±1°C** Comfort With Stable Temperature



Ordinary Inverter Mode



Precise-control Algorithm Inverter Mode



FULL DC INVERTER SYSTEM

Thanks to the Full DC Inverter System, Midea's air conditioners achieved 20% higher energy efficiency compared to normal AC inverters.

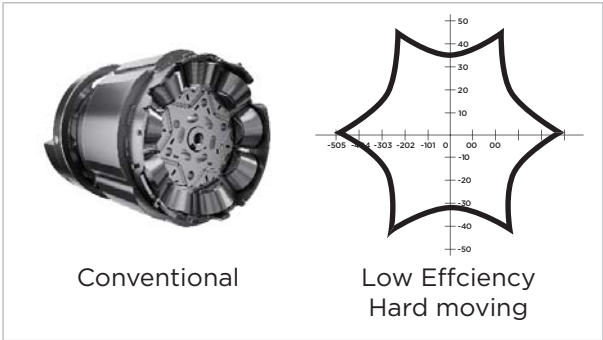
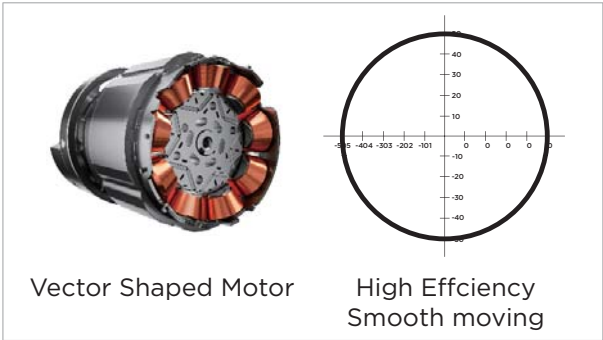
Sine-Wave DC inverter control
High energy efficiency and low noise operation is realized by using a sine-wave DC inverter control



Exclusive rare Earth magnet motor
Higher speed, better efficiency

i-Balance Opreation

IPM DC Fan Motor
Produces 10% higher efficiency with smaller size



Make the best use of the technology

HIGHER ENERGY EFFICIENCY

Eco-Friendly and Economic-friendly

LOWER POWER CONSUMPTION

Midea's air conditioner achieves EERs of 3.72 for cooling operation and COPs of 4.6 for heating operation thanks to Midea's DC Inverter control and the high efficiency tube of the heat exchanger.

Midea former model EER 2.6

increase

30%

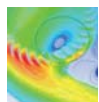
Bionic Blower Wheel and Improved Air Duct



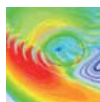
Ordinary fan blade design



Midea high static pressure fan blade design



Standard air duct damper



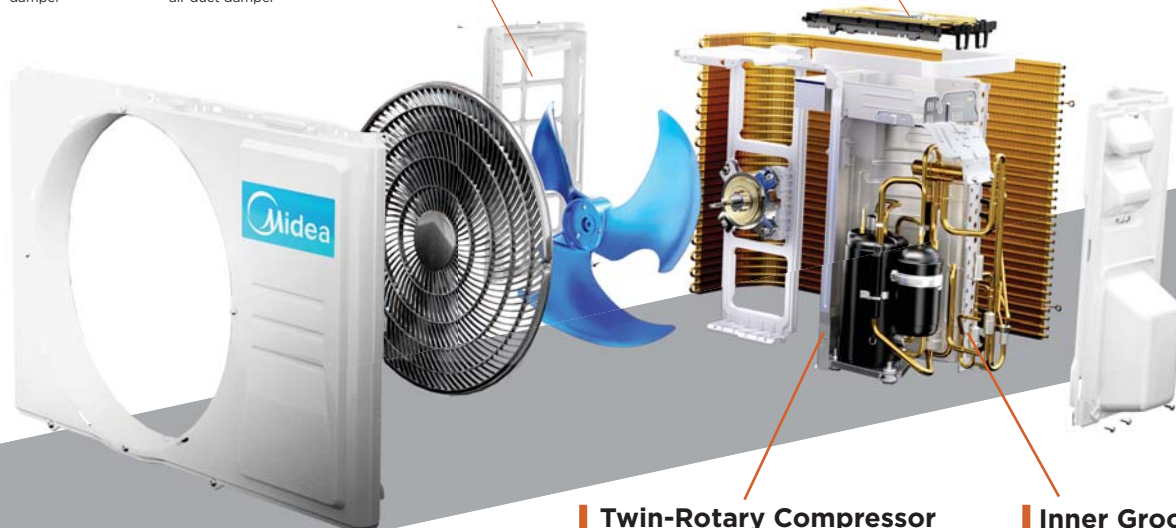
High-efficiency air duct damper

V-PAM (Vector + I-PAM) Inverter Control

Provide maximum speed and efficiency.

Full DC Inverter Control

Efficiency %



Twin-Rotary Compressor

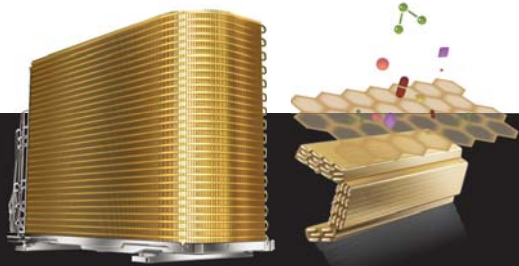
Low vibration & noise due to small torque.

Inner Groove-Tube

Better efficiency of heat transfer.



One click to limit the maximum frequency current while still maintain the room temperature within the optimal temperature, guarantee a cool night sleep with maximum energy saving.

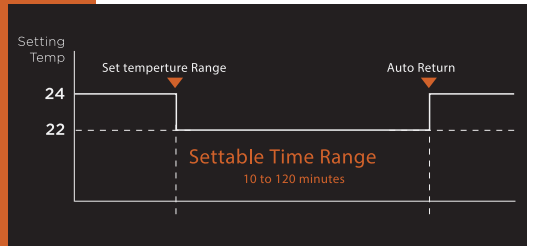


The golden finned hydrophilic coil efficiently prevents bacteria creating a healthy environment, it can improve heat exchange. The unique anti-corrosive gold plating can withstand salty air, rain and other corrosive elements.



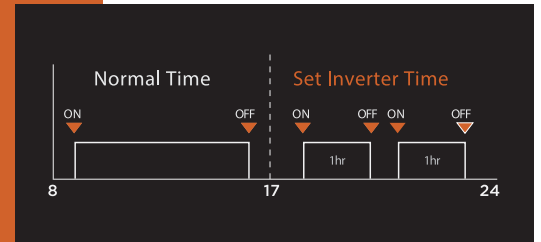
Automatic Temperature Return

The temperature can automatically return to the previous setting point. This function is especially useful for shops or restaurants that return to a higher temperature after the busy hours.



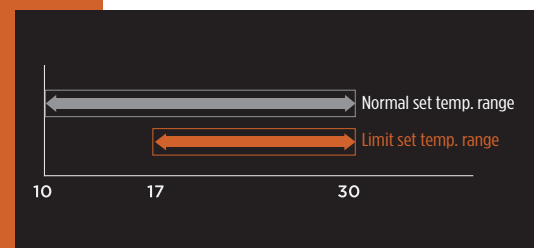
Automatic Time-off

The outdoor unit can automatically turn off when it reaches to the preset operating time frame to prevent energy wasting even when you leave with the AC on.



Set Temperature Limitation

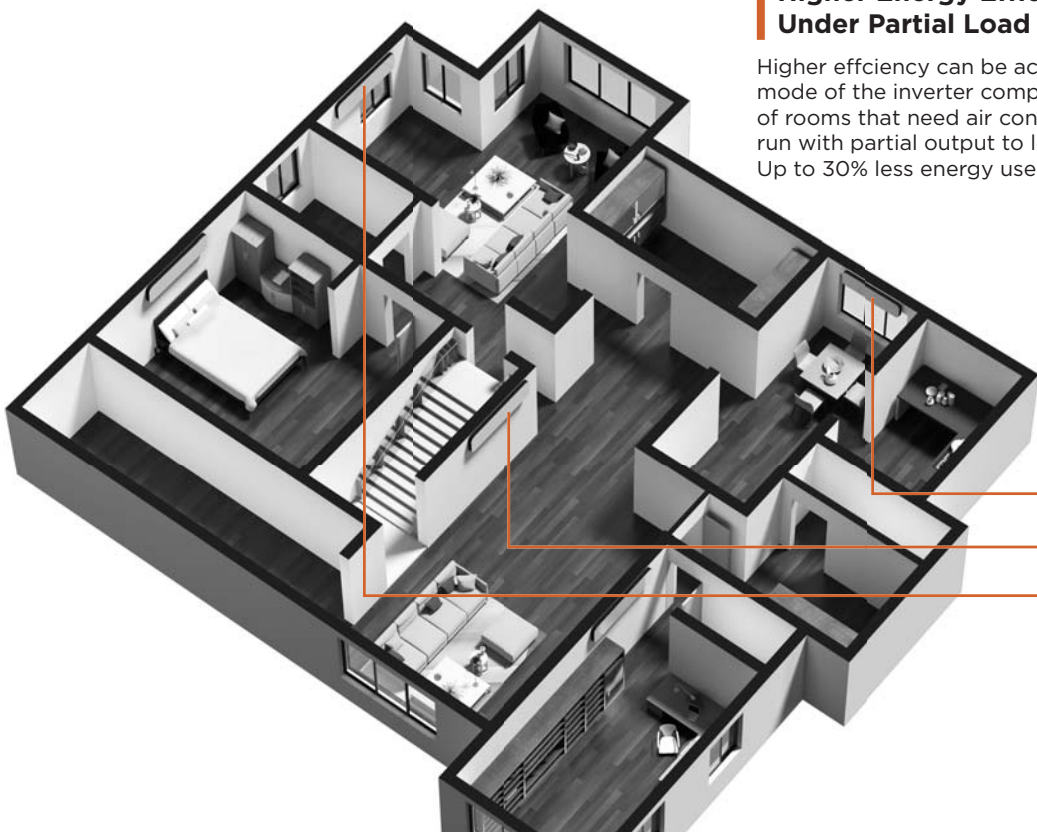
The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.



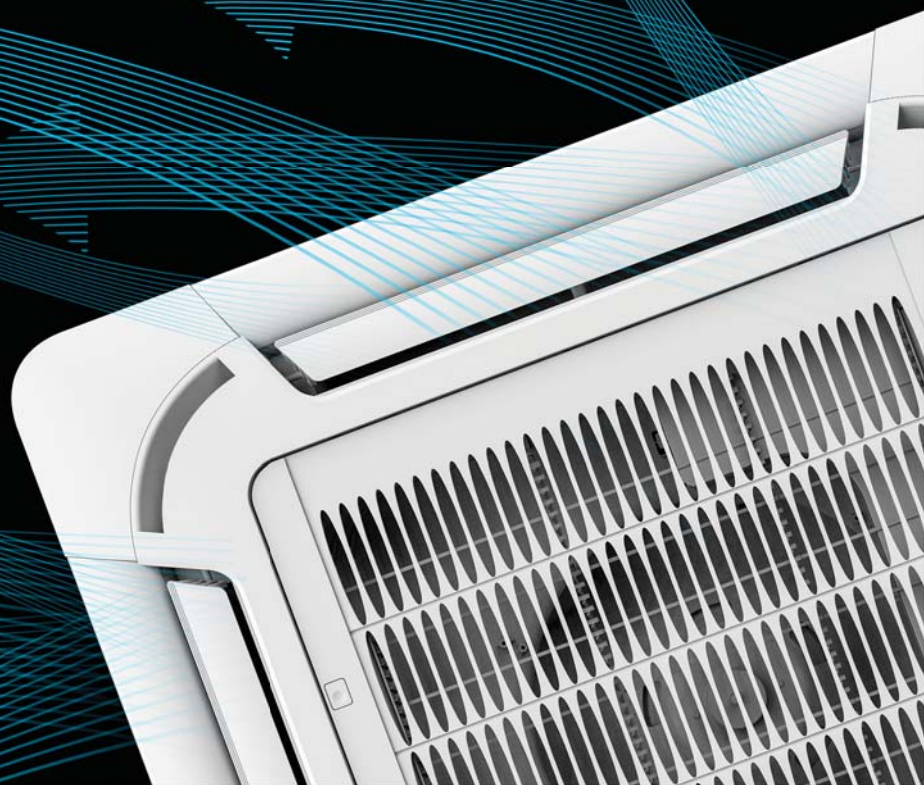
30%

Higher Energy Efficiency Under Partial Load

Higher efficiency can be achieved through partial output mode of the inverter compressor. In situations only a part of rooms that need air conditioning, the outdoor unit will run with partial output to lower the power consumption. Up to 30% less energy use under partial load.



BETTER COMFORT



LOW NOISE TECHNOLOGY

Midea's air conditioner operates at minimum 19dB(A) low noise level.

Indoor fan design



Traditional centrifugal wind turbines



Owl airfoil centrifugal wind turbines

*Specifications may vary for each model



Twin-Rotary Compressor

The Twin-Rolling compressor system rotating with 180° symmetrical balance which ensure low vibration and noise due to the small torque.

Air Stabilizer in Duct

Low noise duct structure with a built-in air stabilizer.



IPM DC Fan Motor

Midea's exclusive IPM DC Fan Motor feature 35% smaller in size while 10% higher in efficiency, providing substantial air volume and high static pressure, while keeping electrical and mechanical noise lower (1-3dB (A) quieter).



19dB
MINI DUCT



22dB
LIBRARY



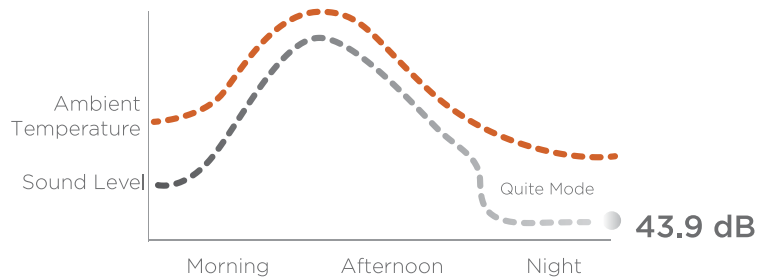
26dB
FOREST



41dB
CEILING &
FLOOR



43dB
CASSETTE



Low-noise outdoor unit operation

Quiet mode activates when the ambient temperature falls. At the right moment, the outdoor unit will automatically lower the operating frequency of the inverter compressor as well as the speed of the DC fan motor, achieving a minimal 43.9 dB(A) noise level.

30%

faster in Cooling

Fast Cooling

Thanks to the Inverter Quattro™ technology, Midea's air conditioner can increase the speed to approximately 30% in cooling while consuming less energy, by accurately sense the temperature difference and adjust the compressor rotation speed to create optimal and comfortable room temperature.



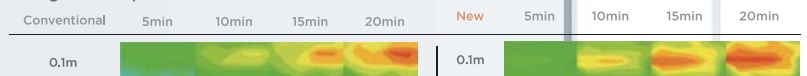
Keeping you steadily cool within

± 1°C

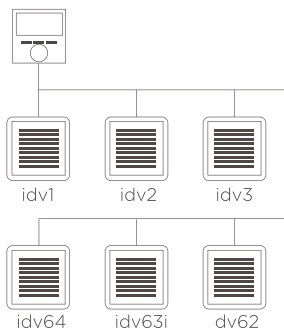
Precise Temperature Control

Thanks to the precise control of the Inverter Quattro™'s micro-chip, Midea's air conditioner can easily maintain the desired temperature by varying the compressor speed without repeatedly turning on and off, keeping you comfortable with steady temperature within 1 °C.

Changes in Temperature Over 20 Minutes



FLEXIBLE ZONING CONTROL



Convenient Remote Controller

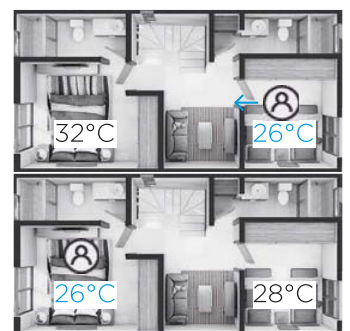
Max64 Centralized Control



Weekly Timer



Sleep Mode



Follow Me

HIGHER RELIABILITY

Worry-Free and Guaranteed for Life
Midea's AC system offers greatly improved reliability for all weather conditions, reducing calls out to site.

45
teeth

54
teeth



High-Efficiency Tube

The increased heat exchange area improves the efficiency of heat transfer, allowing faster heating.



Compressor High Racer Frequency Technology

Like a runner sprinting to the line, this tech enables the compressor to achieve maximum frequency in split of the moment upon start up, providing powerful cooling once the air conditioner is on.

A HIGH STANDARD SUMMONS A GREATER CHALLENGER

Damp And Salty Areas



72-hours ammonia water test



High Stress-corrosion Resistance

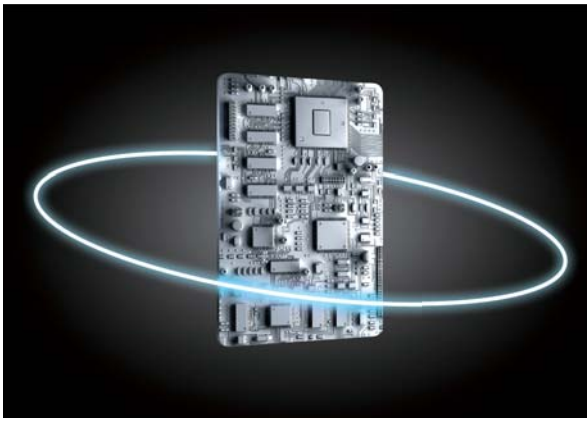
Midea conducts 72-hour anti-stress-corrosion testing for core copper components, exceeding normal 4-hour testing standards by a factor of 18. Results demonstrate that Midea's copper core components perform 15 times better on average than competitors in stress-corrosion resistance.



Golden Fin Coating

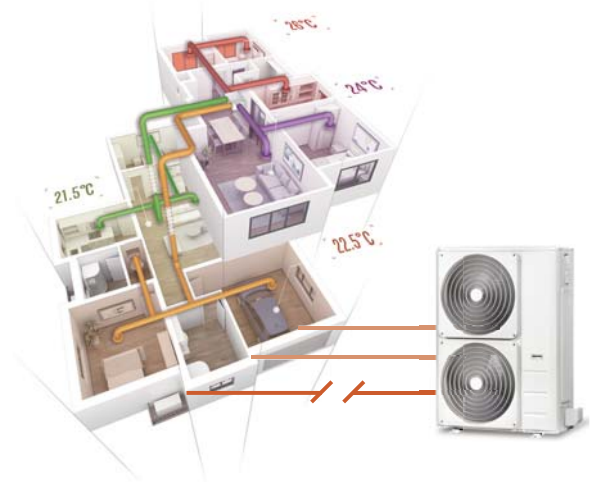
68% stronger hydrophilicity and 3 times higher corrosion resistance compare to the conventional heat exchanger. The patented PrimeGuard™ Coating protects the surface of the heat exchanger from unnecessary wear and corrosion while ensure high efficiency.

100-hours Salt Spray Tests
and
3000-times Wetting-drying Tests



PCB Protection Design

For better protection of the PCB, using the military grade rubber resin material as coating, further enhance the PCB's resistance to acid and alkali elements (rain and humidity).



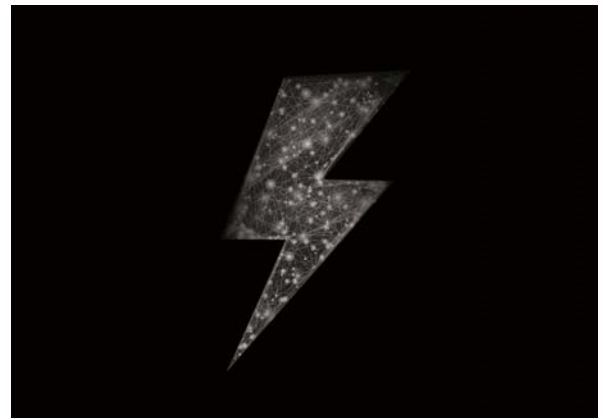
Continuous Operation of IDU (Multi split type)

Each indoor unit is controlled individually on the system network. This allows all indoor unit will continue to work even if an error might occur at any indoor unit's on the AC system.



Full Surrounding Design E-box

The indoor unit E-box is fully surrounded by the flame retarding plastic & metal plate material as protection against fire, humidity or small animals.

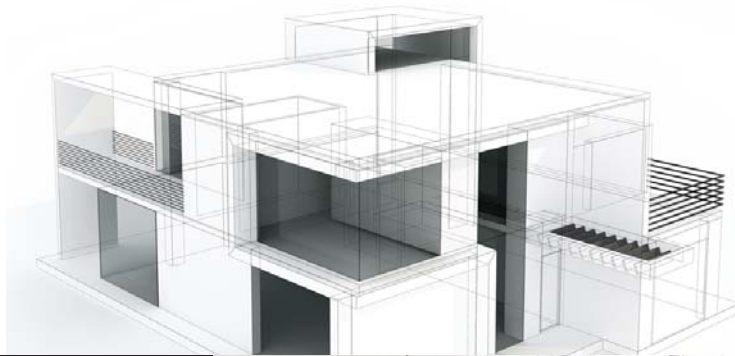


Wide Voltage Operation Range

The Midea PCB was enhanced to increase its ability to withstand the widest voltage fluctuations from down 150v to 260v, thus ensuring your air conditioner stably running under wide voltage operations without a separate voltage stabilizer.



MIDEA SPACE SOLUTIONS



SMALL OFFICES

Midea offers total air conditioning systems for small-sized offices buildings, taking into account energy saving, low noise, comfortable airflow, small room application and centralized control, ensure optimal experience in every corner at work.



HARNESSING THE AIRFLOW

CASSETTE



A FULL PORTFOLIO TO MEET A WIDE RANGE OF NEEDS.



Ceiling Concealed



Super Slim Cassette



Ceiling & Floor

MIDEA PROVIDES MULTIPLE CONTROL OPTIONS TO SUPPORT FLEXIBLE MANAGEMENT AND IMPROVED OPERABILITY.

- Individual Control
- Zoon Control
- BMS Support

SCHOOLS

Flexible to install and convenient to maintain, total air conditioning solutions for schools are designed for both small spaces like dormitories and large spaces like libraries.



CANTEEN, AUDITORIUM AND SHARED PLACE

for Every Zone Enough and Even Airflow Volume



Ceiling Concealed



Super Slim Cassette

LIBRARY

Absolute Quiet for Even the Most Demanding Condition

A RANGE OF INDOOR UNITS

Various Indoor Units Options with Convenient Control Systems



Ceiling Concealed



Ceiling & Floor

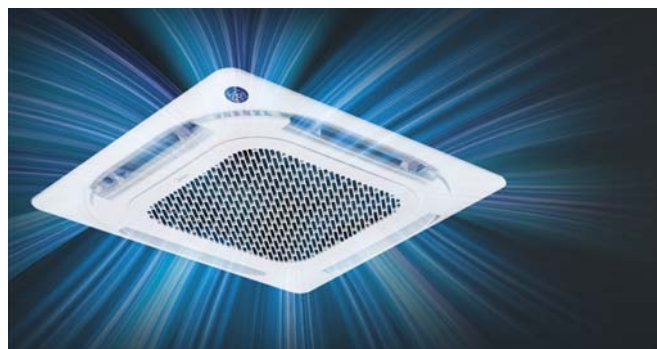


Floor Standing

CEILING CASSETTE



Super Slim Design (2.0 & 2.5HP only)

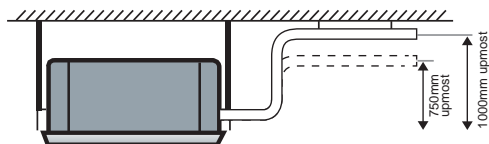


Cool Surround 360°

Unique seamless airflow louver design equipped with DC fan motor allows cool air to diffuse and sink in 360° direction, offering uniform cooling experience throughout the space.

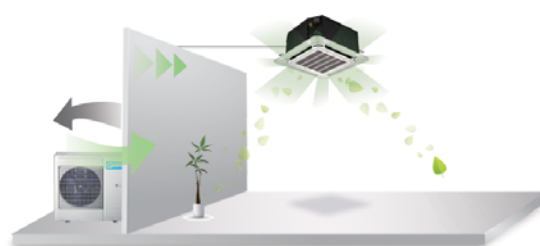


Independent Vane Control (By wired controller)



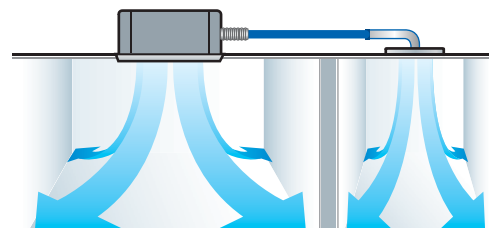
Built-in Drain Pump

The drain pump can pump the condensing water up to 1000mm.



Fresh Air

Fresh air makes air quality healthier and more comfortable.



Reserved Air Outlet

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



Re-structure Water Pump

Water pump re-structure to external, more convenience for service. Over 20% increased airflow with hidden water pump structure, 5% larger heat exchanger, achieve higher energy efficiency, even more lower noise level.



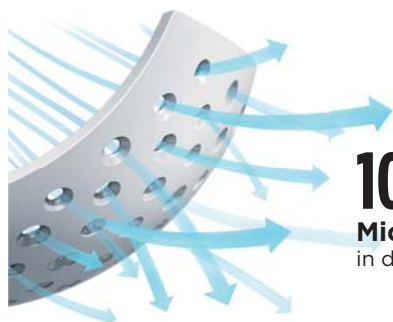
Wi-Fi Control (App:MSmartLife)

Build in Wi-Fi control function
(For Inverter 2.0HP and above only)



POWER BREEZELESS

Exclusive power breezeless wind deflector contain over 10,800 mini holes. Each mini hole is in hour-glass shape to boosts then disperse the air stream as it funneis through all the mini holes are distributed in different direction and size together turning the strong blast into cool, billowing mist. Providing you uniquely immersive experience never before. (Breezeless Panel available for Inverter model 2.0HP and above only)



10,800
Micro-Holes

in different size and directions



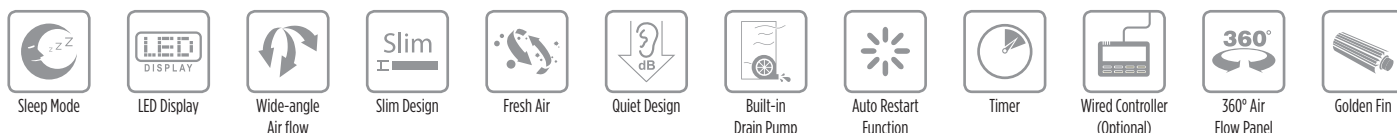
Hourglass-shaped
cross-section

Air pressure and
de-pressure

HOURGLASS-SHAPED

Hourglass-shaped micro holes
compress then emitted the across air stream

SPECIFICATIONS (Ceiling Cassette Inverter)

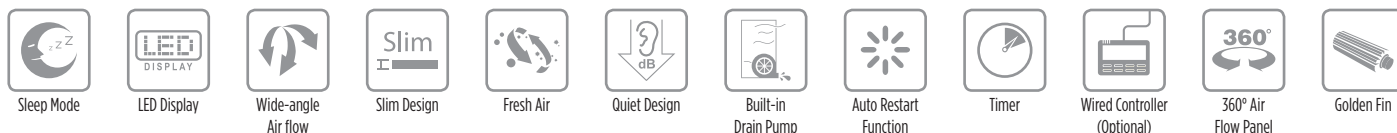


Model name	Indoor model		MCA3-12CRFNX	MCX-24CRFNX	MCX-24CRFNX	MCX-30CRFNX	MCX-36CRFNX	MCX-40CRFNX	MCX-42CRFNX	MCX-48CRFNX
	Outdoor model		MOUX-12CFN8	MOUX-18CFN8	MOUX-24CFN8	MOUX-30CFN8	MOUX-36CFN8	MOUX-40CFN8	MOUX-42CFN8	MOUX-48CFN8
Power source		V/ph/Hz	220-240-/1/50	220-240-/1/50	220-240-/1/50	220-240-/1/50	220-240-/1/50	380-415-/3/50	220-240-/1/50	380-415-/3/50
Cooling capacity		Btu/h	12,000 (2,897-14,020)	18,000 (9,900-19,064)	24,000 (11,263-27,000)	30,000 (7,600-32,000)	36,000 (9,200-39,000)	36,000 (9,200-39,000)	42,000 (10,000-44,000)	48,000 (12,000-54,000)
Power consumption - Rated (Min-Max)		W	1,010 (168-1,434)	1,633 (720-2,088)	2,320 (780-2,748)	2,750 (190-3,000)	3,950 (900-4,200)	4,000 (890-4,150)	4,200 (680-4,350)	4,650 (800-5,900)
Running current - Rated (Min-Max)		A	4.45(1.32-6.31)	7.2(3.2-9.2)	10.2(4.2-12)	12.0(2.0-13.0)	17.5(4.2-18.5)	6.5(1.4-6.5)	18.8(3.1-19.1)	8.1(1.8-10.2)
Indoor	Air flow (High)	m³/h (cfm)	569 (335)	1247 (734)	1247 (734)	1700 (1000)	1700 (1000)	1700 (1000)	1900 (1118)	1900 (1118)
	Sound pressure (Hi/Mi/Lo)	dB(A)	42/37.5/34.5	45.4/44/39	50/47.5/42	50.5/48/46	51/48/46	51.0/49.0/46.0	52.5/50/47.5	52.5/50.5/48
	Dimension (WxDxH)(body)	mm	570x570x260	830x830x205	830x830x205	830x830x245	830x830x245	830x830x245	830x830x287	830x830x287
	Dimension (WxDxH)(panel)	mm	647x647x50	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
	Machine Weight (Net/Gross)	Indoor (kg)	16.3/20.4	21.6/25.4	21.6/25.4	24.6/28.6	27.2/31.2	27.2/31.2	29.3/33.5	29.3/33.5
		Panel (kg)	2.5/4.5	6/9	6/9	6/9	6/9	6/9	6/9	6/9
	Design pressure	MPa	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7
	Drainage water pipe diameter	mm	ØDΦ25	ØDΦ25	ØDΦ25	ØDΦ25	ØDΦ25	ØDΦ25	ØDΦ25	ØDΦ25
Outdoor	Sound pressure	dB(A)	53.6	56	60	62	63	63	63	63.5
	Dimension (WxDxH)	mm	765x303x555	805x330x554	890x342x673	946x410x810	946x410x810	946x410x810	946x410x810	952x415x1333
	Machine weight (Net/Gross)	kg	26.6/29	32.5/35.2	43.9/46.9	52.8/57.3	66.9/71.5	80.5/85	71.0/75.0	103.7/118.3
	Refrigerant charged (5m piping)	kg	R32/ 0.72	R32/1.15	R32/1.5	R32/2.0	R32/2.4	R32/2.4	R32/2.8	R32/2.9
Refrigerant piping	Liquid side/ Gas side	mm (inch)	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")					
	Max. pipe length	m	25	30	50	50	75	75	75	75
	Max. difference in level	m	10	20	25	25	30	30	30	30
	Control type (Outdoor)		EXV			EXV+Throttle valve				
Heat insulation		Both liquid and gas pipe								

Remarks: 1.The above design and specifications are subject to change without prior notice for product improvement.
2.The values given in the table for the noise level reflect the levels in anechoic chamber.



SPECIFICATIONS (Ceiling Cassette Non Inverter)



Model name	Indoor model		MCA3-12CRN8	MCDX-18CRN8	MCDX-25CRN8	MCDX-30CRN8	MCDX-36CRN8	MCDX-48CRN8
	Outdoor model		MOUX-12CN8	MOUX-18CN8	MOUX-25CN8	MOUX-30CN8	MOUX-36CN8	MOUX-48CN8
Power source		V/ph/Hz	220-240-/1/50	220-240-/1/50	220-240-/1/50	220-240-/1/50	380-415-/3/50	380-415-/3/50
Cooling capacity		Btu/h	12,000	18,500	25,000	31,000	36,500	48,000
Power consumption - Rated		W	1,150	1,600	2,400	3,080	3,500	4,600
Running current - Rated		A	4.5	7	10.5	14	6.5	8.8
Indoor	Air flow (High)	m³/h (cfm)	810 (476)	1200 (706)	1320 (776)	1935 (1138)	1950 (1148)	1950 (1148)
	Sound pressure (Hi/Mi/Lo)	dB(A)	41/37/34	44/37.5/34.5	46/40/37	53/49.5/46	53/49.5/45.5	54/52/49
	Dimension (WxDxH)(body)	mm	570x570x260	830x830x205	830x830x205	830x830x245	830x830x245	830x830x245
	Dimension (WxDxH)(panel)	mm	647x647x50	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
	Machine weight (Net/Gross)	Indoor (kg)	16.2/19.4	22.2/26	22.2/25.9	25.7/29.8	25.8/29.9	28.0/32.1
		Panel (kg)	2.5/4.5	6/9	6/9	6/9	6/9	6/9
	Design pressure	MPa	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7
	Drainage water pipe diameter	mm	ODΦ25	ODΦ25	ODΦ25	ODΦ25	ODΦ25	ODΦ25
Outdoor	Sound pressure	dB(A)	50.5	57	59	59.5	63	62
	Dimension(WxDxH)	mm	765x303x555	805x330x554	890x342x673	946x410x810	946x410x810	946x410x810
	Machine weight (Net/Gross)	kg	27.3/29.7	38.9/41.5	51.8/55	63.2/68.0	66.1/71	71.5/76.1
	Refrigerant charged (5m piping)	kg	R32/ 0.43	R32/0.72	R32/1.3	R32/1.7	R32/1.6	R32/1.9
Refrigerant piping	Liquid side/ Gas side	mm (inch)	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")			
	Max. pipe length	m	25	25	25	30	30	50
	Max. difference in level	m	10	15	15	20	20	30
	Control type (Outdoor)		Capillary Tube			Throttle valve		
	Heat insulation		Both liquid and gas pipe					

Remarks: 1.The above design and specifications are subject to change without prior notice for product improvement.
2.The values given in the table for the noise level reflect the levels in anechoic chamber.