



Midea Residential Central Air Conditioning

LC3 Series All DC Inverter Duct Type Unit




A new choice for equipping high-end homes with low-sound DC inverters



High energy efficiency



19 dB low sound



Reliable quality

Midea's next-generation full DC inverter duct type air conditioner: Full DC inverter brings high-efficiency and energy-saving constant temperature and comfort. The DC inverter rare earth compressor not only rapidly conducts refrigeration and heating, but also lowers the running sound to 19 dB(A)*. The concealed installation fits a variety of decoration styles for high-end homes, enhancing the home's internal and external refinement and increasing prestige.

*Note: The above data was provided by our company's nationally recognized laboratory.



01 Innovative DC inverter technology to revolutionize the quality of home life

Midea's technology has always innovated in pursuit of high efficiency and stability, and the high-quality DC inverter rare earth compressors have taken another big step in terms of innovation. It features a compact structural design and runs more smoothly. The use of permanent magnetic rotors that do not require an external supply current greatly improves power utilization, reduces losses, and is more energy-efficient.

DC inverter

Four advantages of the high-quality DC inverter rare earth compressor



Novel R410A environmentally-friendly refrigerant

Novel R410A environmentally-friendly refrigerant is used. With an operating pressure 1.6 times that of an ordinary R22 air-conditioning unit, it has higher refrigerating efficiency. Meanwhile, carbon emissions are greatly reduced, preventing damage to the ozone layer. This is an industry-recognized environmentally-friendly refrigerant.

*Note: The above data was provided by our company's nationally recognized laboratory.



Precise core components of the compressor



- **Silent mode**
Perform refrigeration and heating like whispering
- **Power**
Mature inverter technology brings power surge
- **Energy saving**
Significantly improve power utilization
- **Durable**
The vitality of a sports sedan

02 High-quality core components are used to ensure better quality

The high-quality DC inverter compressor, the DC motor, the precision refrigerant control and other core components are integrated, which not only ensures the quality of the system, but also saves energy and electricity, and is comfortable, noiseless, and durable.



High quality brand compressor

It features a powerful, high-quality, brand high-efficiency DC inverter compressor, which is more energy-saving and stable during operation.




High efficiency DC motor

The high efficiency DC motor can effectively reduce energy loss and enhance the operating efficiency, thus significantly increasing the service life.



Efficient heat exchangers

With a cross-type multi-flow path design, it features a more uniform refrigerant distribution, more substantial heat exchange, and higher efficiency.



Silent fan blade



The fan blade with a CFD optimized structural design reduces motor energy consumption and operating noise.

03 High energy efficiency, provides an energy-saving, worry-free design

The high-efficiency, energy-saving compressors, motors, and heat exchangers use high-performance, high-quality core components to further increase energy efficiency levels, giving the duct type air conditioner a higher energy efficiency than the industry standard, and is efficient and energy-saving, beginning a new lifestyle of low carbon emissions and environmental protection.



04 The inverter module is cooled by means of refrigerant to cope with a greater variety of environments

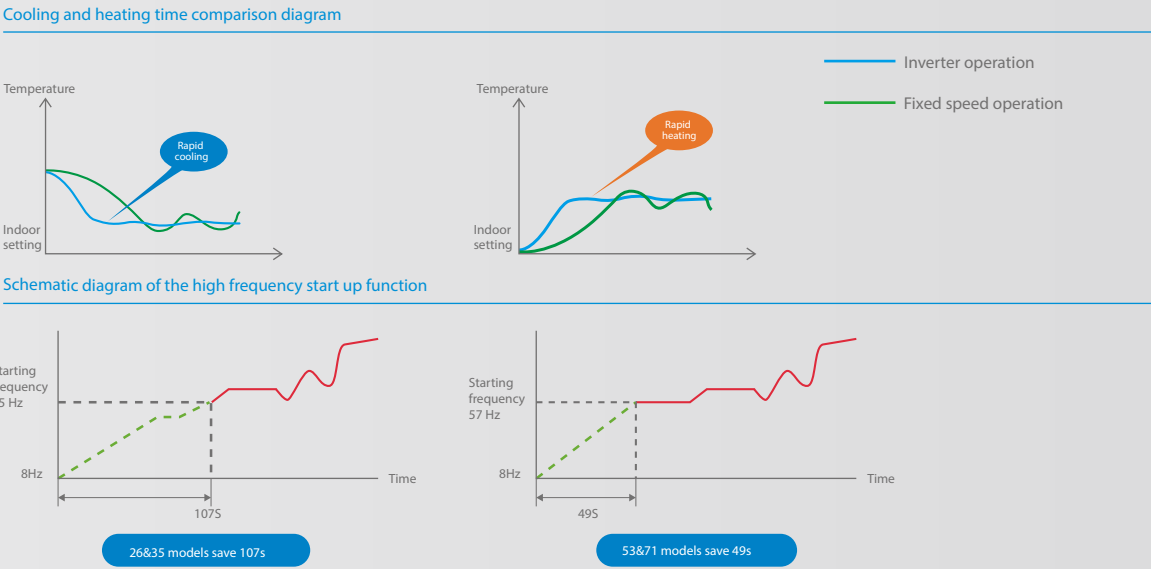


- This reduces the heat generated by inverter modules and components, improves the high temperature refrigeration operation frequency of the compressor, and improves the high temperature refrigeration capacity. It can perform strong refrigeration in a high temperature environment of 55°C* and improve the high temperature refrigerating capacity by 15-20%*.
- The inverter module utilizes refrigerant heat dissipation technology to better cope with various harsh high temperature environments than ordinary air conditioners, so that the electric control box is not impacted by high temperatures, maintains a cool state, and is more reliable.
- It performs refrigeration rapidly in a high temperature environment, and improves the indoor temperature drop speed by 5-10%* compared with an ordinary air conditioner.

*Note: The above data was provided by our company's nationally recognized laboratory.

05 Full DC inverter operation allows it to rapidly reach a comfortable temperature

Midea is never too slow for a comfortable experience. The DC inverter technology features a high-frequency start-up function. After power-on and startup meet the set conditions, it will run at an instantaneous running frequency of 65 or 57 Hz. After rapidly reaching a set temperature, it switches to low-frequency operation to stably maintain comfort and achieve rapid cooling and heating, so that users do not need to wait to enjoy a comfortable temperature.

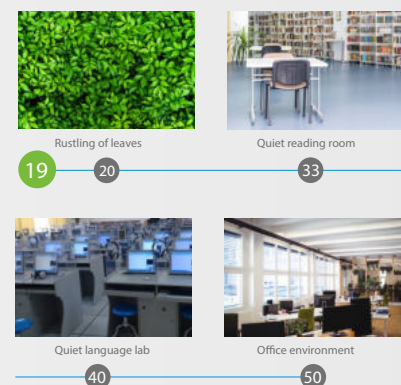


06 With a low volume of 19 dB*, it is quieter and calms the mind

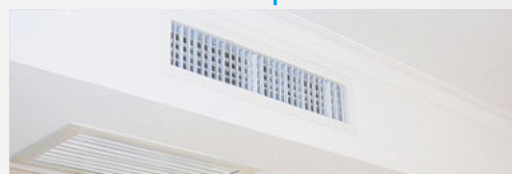
CFD air duct optimization and analysis techniques: aerial impeller simulation technique; stable and quiet.

- After years of research on the fan air duct and system, the DC motor of the integrated indoor unit achieves 7-fan speed regulation.
- Low noise EXV design, chassis simulation noise reduction technology, and superheat degree control technology.
- The application of technologies such as full-process noise comfort control.
- It achieves a low sound of 19 dB to provide users with greater comfort.

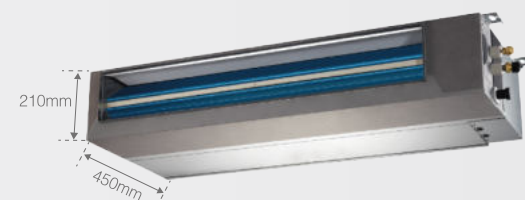
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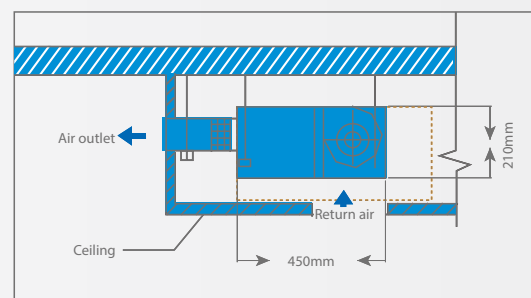
07 Exquisite concealed installation shows refinement and leaves a small visual footprint



With embedded installation, the indoor unit is completely hidden in the ceiling, exposing only the air outlet and the air return port, making it appear more reserved and delicate than conventional air conditioners.



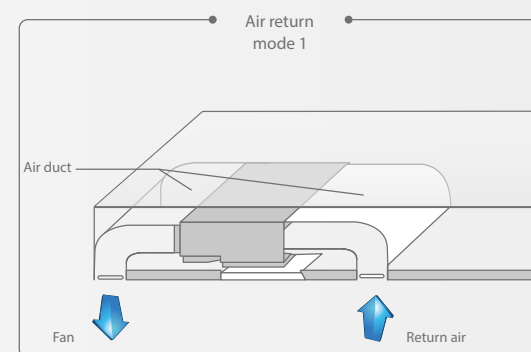
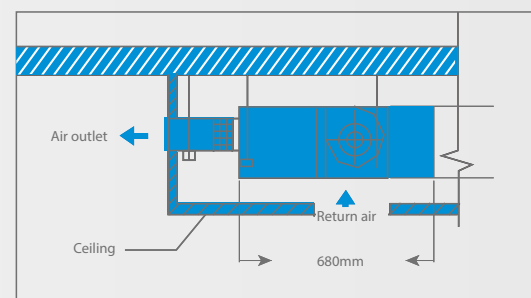
Thin duct type air conditioner



Compact body, saving more installation space

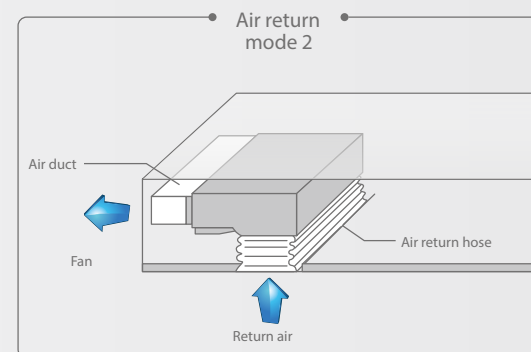
The body of the thin duct type air conditioner has a thickness of only 210 mm and a depth of only 450 mm, which frees up more living space and does not protrude from the wall, conserving ceiling space.

Duct type air conditioners of other brands



Return air design, flexible layout

Multiple air return types can be achieved through simple adjustment, providing a greater degree of freedom in the installation process.



Customize exclusive home temperature to enjoy a more comfortable life



Constant temperature precision control



Midea's full DC converter duct type air conditioner has 7 fan speeds. Smart management adjusts airflow to a level that is pleasant for the current occasion. Ranging from top-speed cooling or heating, or soft quiet air to encourage sleep, this unit will work constantly to ensure that your family stays comfortable.



01 The 7-fan speed function is comfortable and pleasant

Midea's full DC inverter duct type air conditioner features a new full DC indoor unit, which further reduces the unit's operating noise. The 7-fan speed function is extraordinary, providing healthy living that's powered by technology. Indoor airflow is adjusted with precision, creating a comfortable and pleasant atmosphere.

Strong air wins through strength

Strong airflow relieves stress

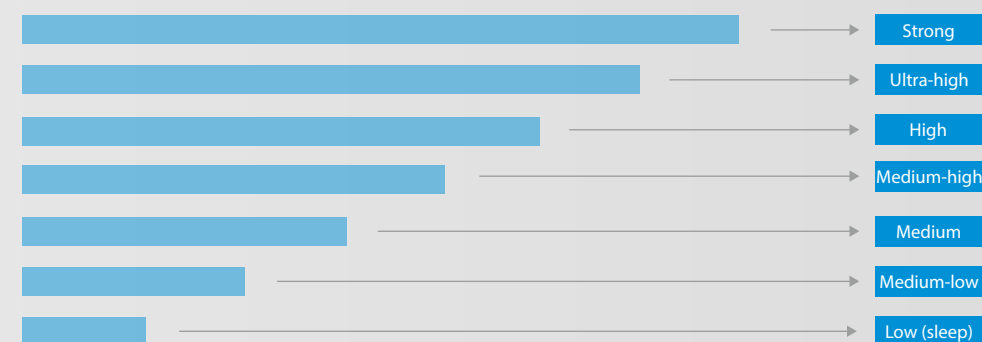
When you are tired from work, you will have a comfortable temperature at home. Rapid cooling or heating provides a more graceful temperature experience.

Sleep airflow creates a sense of leisure

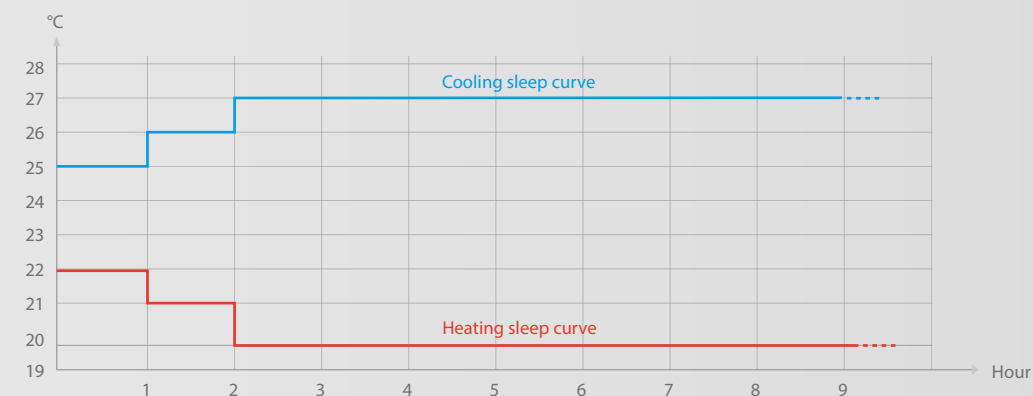
Let go of complexity to enjoy the tranquility of youth

19 dB(A) mute is like a spring breeze carrying tender leaves to the ground. With quiet braking, you will sleep like a baby all through the night

7 fan speeds



Deep sleep mode



The two-way sleep curve mode allows you to adjust the comfort temperature according to your preference. When you select the sleep mode, the light source on the panel turns off after 15s. The sleep mode is better, and the current temperature is maintained after exiting sleep mode, which makes deep sleep more comfortable.

02

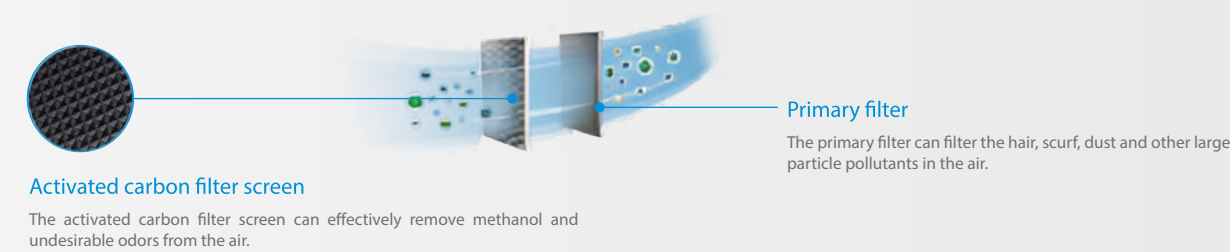
Precise constant temperature control provides a consistent experience of comfort

Dramatic changes in temperature could cause colds, especially for sensitive people such as children and the elderly. Midea's all-DC inverter duct type air conditioner uses technology to maintain the texture of home life. The outdoor unit utilizes a DC motor to achieve stepless speed regulation. It is precisely adjusted according to indoor temperature to say goodbye to the “emotionalization” of temperature differences, so that the elderly and children can enjoy invariable comfort.

03

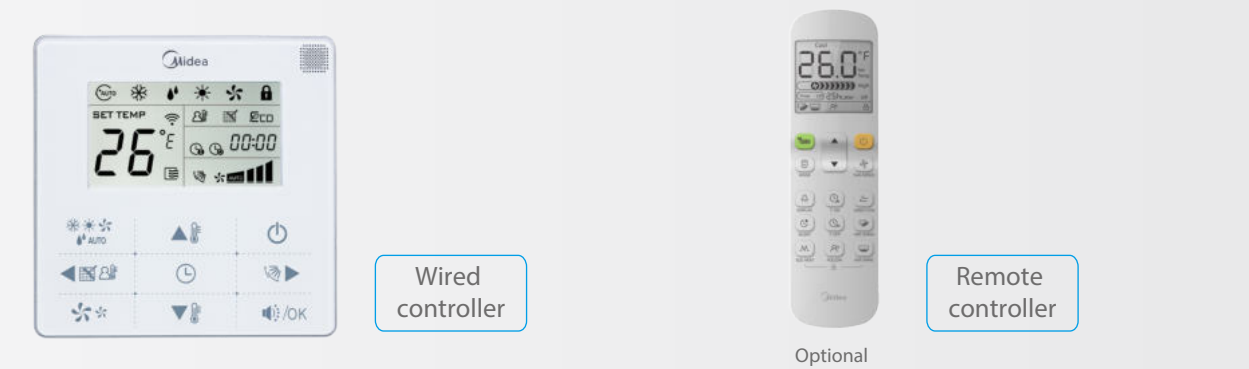
Multi-layer filtration brings a healthy breeze

The indoor unit can be equipped with a primary filter and an activated carbon filter screen to effectively filter the air, and remove formaldehyde and odor from the air, keeping it healthy and fresh.



04

Independent controller, featuring multiple functions and a fashionable design



- Two-way carrier communication is provided. You can set operations such as the indoor unit's static pressure, temperature compensation, and can query system operation status and fault feedback display.
 - The size is the same as that of a standard switch, only **86 mm**, and it has an attractive style.
 - The function key allows you to enter the level 2 menu, and the options are rich (sleep, light, adjustable air supply angle, 2-in-1 control, etc.).
- Adjustable at a precision of 0.5°C for more precise temperature control
 - The 7-fan speed is adjustable.
 - Curve design with a smooth appearance and that is comfortable to hold, elegant, and beautiful.

05

Specifications

Indoor Unit Model			IDR3-X 26M	IDR3-X 35M	IDR3-X 53M	IDR3-X 71M
Outdoor Unit Model			MCR3-X 26M	MCR3-X 35M	MCR3-X 53M	MCR3-X 71M
Power Supply			220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz
Cooling Capacity		W	2600(700~3500)	3500(700~4000)	5300(1000~6000)	7200(2400~8200)
Heating Capacity		W	3600(700~3800)	4150(800~4600)	6200(1200~6800)	8600(2100~9600)
Cooling Power		W	715(170~1420)	1020(190~1460)	1500(250~2370)	2180(450~3280)
Heating Power		W	920(170~1360)	1200(190~1570)	1650(300~2460)	2400(400~3650)
Circulating Air Flow		m ³ /h	480	550	750	1000
External static pressure		pa	25 (0-40)	25 (0-40)	25 (0-60)	25 (0-60)
Weight (kg)	Indoor Unit	kg	16	16	19.5	23.5
	Outdoor Unit	kg	27	29.5	35	53
Noise	Indoor Unit	dB(A)	34/33/19	35/34/21	36/35/24	39/37/29
	Outdoor Unit	dB(A)	50	50	54	55
Indoor Unit Dimensions (W x H x D)		mm	700 x 210 x 450	700 x 210 x 450	920 x 210 x 450	1140 x 210 x 450
Outdoor Unit Dimensions (W x H x D)		mm	722 x 555 x 260	795×555×287	795 x 555x 287	910 x 712 x 345
Gas Pipe		mm	Φ9.5	Φ9.5	Φ12.7	Φ15.9
Liquid Pipe		mm	Φ6.4	Φ6.4	Φ6.4	Φ6.4
Piping Length		m	15	15	25	25
Ambient temperature	Cooling	°C	10~55			
	Heating	°C	-15~24			
Controller			WDC-86E/KD			

Indoor Unit Model			IDR3-X 90M	IDR3-X 105M	IDR3-X 140M	IDR3-X 160M
Outdoor Unit Model			MCR3-X 90M	MCR3-X 105M	MCR3-X 140M	MCR3-X 160M
Power Supply			220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz
Cooling Capacity		W	9000(2700~9000)	10500(3000~10500)	14000(4200~14000)	16000(4430~16000)
Heating Capacity		W	10000(2800~10000)	11600(3100~11600)	16000(4500~16000)	18000(4720~18000)
Cooling Power		W	2750(670~2750)	3000(820~3000)	4650(1200~4650)	5500(1340~5500)
Heating Power		W	2900(650~2900)	3000(800~3000)	4500(1000~4500)	5350(1120~5350)
Circulating Air Flow		m ³ /h	1500	2200	2900	3300
External static pressure		pa	25 (0-100)	37 (0-100)	50 (0-200)	50 (0-200)
Weight (kg)	Indoor Unit	kg	40	45.5	68	68
	Outdoor Unit	kg	48	68	78.5	91
Noise	Indoor Unit	dB(A)	43/39/36	43/39/36	49/46/45	52/49/47
	Outdoor Unit	dB(A)	55	59	59	59
Indoor Unit Dimensions (W x H x D)		mm	1140 x 270 x 775	1200 x 300 x 865	1370 x 420 x 691	1370 x 420 x 691
Outdoor Unit Dimensions (W x H x D)		mm	910 x 712 x 345	950 x 840 x 360	950 x 840 x 360	1040 x 865 x 410
Gas Pipe		mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Liquid Pipe		mm	Φ9.5	Φ9.5	Φ9.5	Φ9.5
Piping Length		m	30	30	50	50
Ambient temperature	Cooling	°C	10~55			
	Heating	°C	-15~24			
Controller			WDC-86E/KD			

Note:

1. The maximum static pressure of the air conditioner is 60Pa.

2. The capability parameters in the table are the test data under the 25Pa nominal static pressure and the 7th fan speed.

3. The noise parameters in the table are the test data under the 25Pa nominal static pressure and the 7th/6th/1st fan speed.

4. The above parameters may change due to product improvement. Please refer to the nameplate parameters of the product.