

Midea

مكيفات مايديا



# PRODUCT CATALOGUE

## LIGHT COMMERCIAL AIR CONDITIONER

### 2024

HUSSEIN & AL-HASSAN G SHAKER BROS.

 H&H SHAKER  HH-SHAKER.COM.SA



شركة الأخوان حسين و الحسن غازي شاكر

   HSHAKERCO الرقم الموحد 8002440247

# MIDEA GROUP

is a Fortune 500 company, with robust business growth across multiple sectors. We believe in humanizing-technology and provide customized solutions for smart home appliances, electro-mechanical, building technologies, robotic&automation and digital innovation.

## Leading pioneer



### World's No.1 Residential Inverter Air Conditioner Company

Euromonitor International (Shanghai) Ltd., measured in terms of total production volume of residential inverter air conditioners (including OEM brands) in 2022, based on research conducted in Jul 2023. Inverter air conditioners refer to air conditioners installed with variable-speed drives.

## Robust enterprise



### #278 on the Fortune Global 500

Midea has entered the Fortune Global 500 for 8 consecutive years from 2016, ranked 278th in 2023.

## Reliable partner

### Credit Rating "A" by S&P Global Ratings

Midea Group owns the highest credit rating among private manufacturing companies in China, being one of the few internationally with A or above rating.

## Empower society

### China Top 50 Sustainable Development Industrial Enterprises

Midea Group is awarded by Forbes for its outstanding performance in green manufacturing, carbon neutrality, sustainable development and ESG construction.

## Connected worldwide



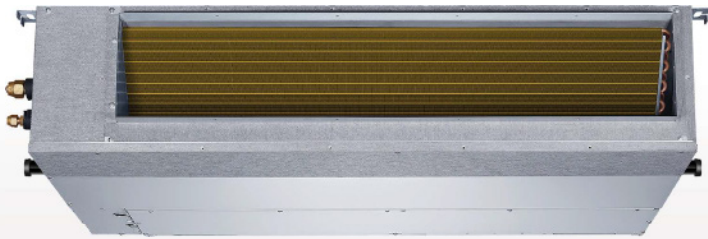
### #Worldclass Sponsorship with Manchester City

Midea Group and Manchester City have been kicked off global partnership since 2020 and launched several award-winning campaigns.

## Enterprise history

Keep forging ahead and embrace what's next.

- 1968** Mr.He Xiangjian led a group of 23 Biejiao residents to start the business with only ¥5,000.
- 1981** The company registered the "Midea" trademark, which marked the birth of the Midea brand.
- 1985** Midea entered the AC industry, establishing the exploration of new product categories in home appliances industry.
- 1990** Midea invested more than ¥100 million to build the first high-end industrial park.
- 2000** Midea held the Millennium Ceremony to mark the start of a new era. In the same year, the sales revenue of Midea exceed ¥10 billion.
- 2004** Midea further diversified its product portfolio by carrying out a series of mergers and acquisitions. It expanded its business to refrigerator, washing machine and other white goods.
- 2007** Midea built its first overseas manufacturing base in Vietnam.
- 2010** Midea's sales revenue exceeded ¥100 billion. In the same year, Midea's new headquarters building went into operation.
- 2012** He Xiangjian, the founder of Midea, resigned from the Board, and Paul Fang was named as the new chairman.
- 2013** Midea Group became the first company in mainland China that successfully privatized the listed company and the group went public.
- 2016** Midea first entered the Fortune Global 500 list and was the first Chinese household appliances company to be included on the list.  
Midea acquired 80.1% equity of Toshiba Lifestyle Products & Services Corporation and acquired 80% equity of Clivet.
- 2017** Midea acquired 94.55% equity of KUKA and 79.37% equity of SERVOTRONIX, officially entering the robotics and automation industry.
- 2019** Ranked 307th on Fortune Global 500.
- 2021** Midea's revenue exceeded ¥300 billion.  
Ranked 288th on Fortune Global 500.
- 2023** 55th anniversary.  
Midea has entered the Fortune Global 500 for 8 consecutive years from 2016, ranked 278th in 2023.



# A6 DUCT

## Standard Features:



Sleep Mode



Anti-cold Air Function



Independent Dehumidification



Auto Defrosting



2-way Draining



Auto Restart Function



Timer



Wired Control



Low Ambient Cooling

## Optional Features:



Build-in Drain Pump



Fresh Air



Remote Control



WIFI



Central Control

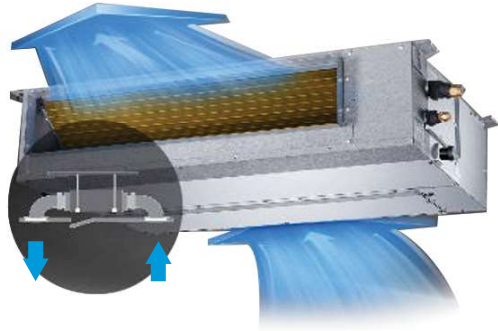
## Appearance



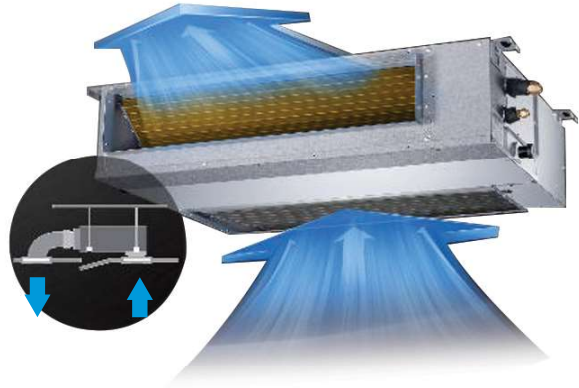
# Flexible Installation

## Flexible Air Intake

The frame size of air inlet in rear and bottom is the same. It's very easy to switch to match different applications.



Air intake from rear  
(Standard)



Air intake from bottom  
(Optional)



### High Static Pressure up to 160Pa

This unit can be installed in various applications that requires static pressure of 160Pa.



### Built-in Drain Pump

The drain pump can lift the condensing water up to 750mm, which is convenient to install drainage pipes under most conditions.

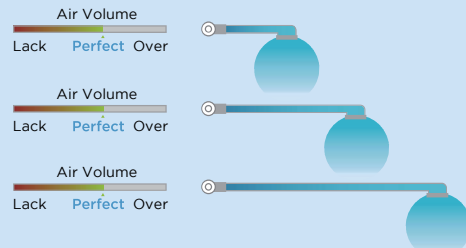


### Slim Design

The A6 duct is much slimmer thanks to the redesigned overall structure. It now requires less space for installation.

## Constant Air Volume Control

With constant air volume control technology, optimal airflow cools every room consistently and accurately with both short pipes and long pipes.



# Easy Maintenance

A6 duct allows operators maintain the motor from the bottom more easily.  
A6 duct has big space for maintenance at the side.



# Easy Clean

You can pull out the filter from left, right, or from the bottom for easy cleaning.  
With a larger window design, once the motor and the blower wheels have been detached, heat exchanger and water receiver tray in behind can be seen very clearly. Dust can be easily removed from the inside.



# Slimmer And Lighter

## Customized for Installers

### Slimmer And Lighter

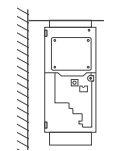
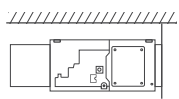
Meet various installations in narrow ceilings with shorter length and thinner.



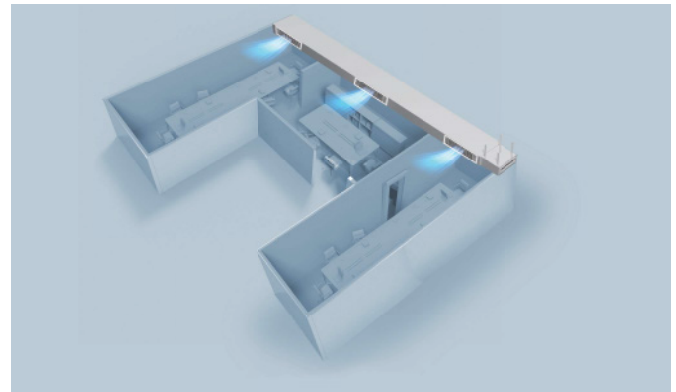
# Slim & Compact Design

## Two Ways of Installation

Two types of installation methods can be selected: ceiling concealed and floor concealed.



## Double Twins Triple control

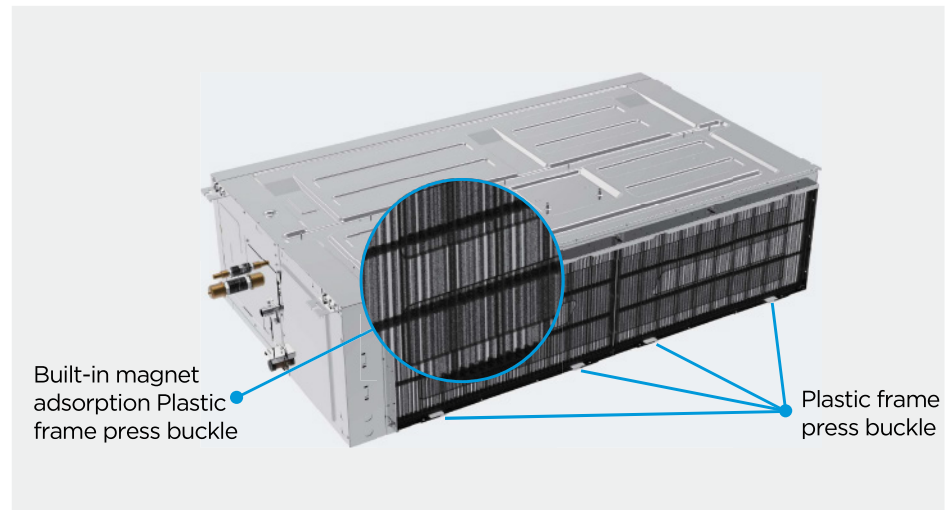
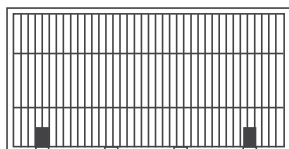


# Easy Maintenance

## Customized for Installers

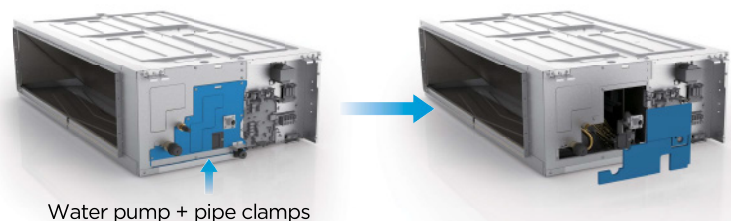
### Upgrade of Filters

Two types of filters are provided by A7, clip-type or magnetic-type.



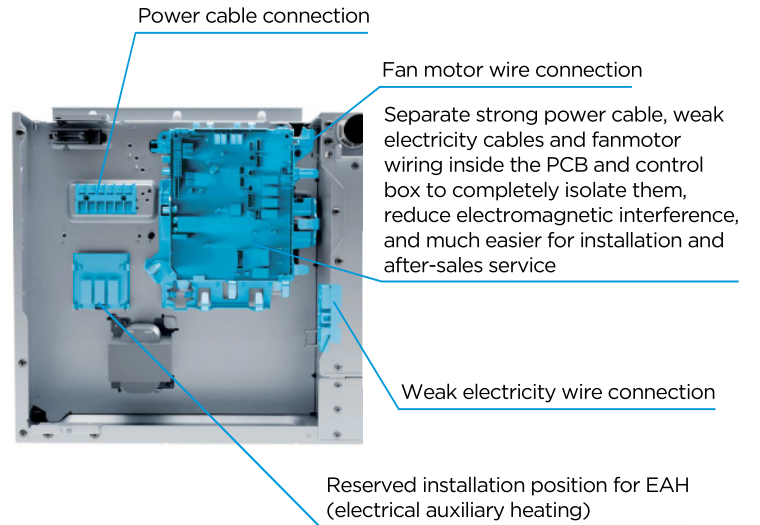
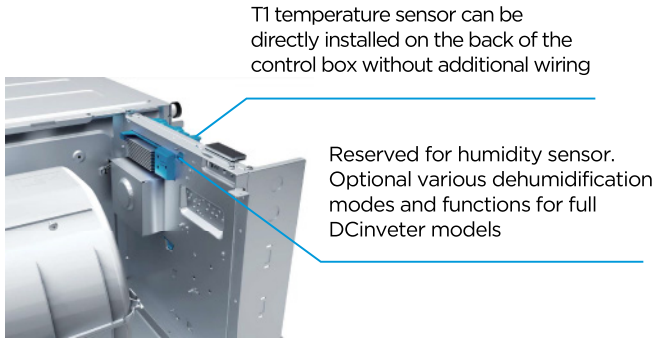
# Upgrade of Drain Pump

Service area of A7 Duct is 20% more than A6. No need to cross the hole when replacing drain pump and temperature sensor.



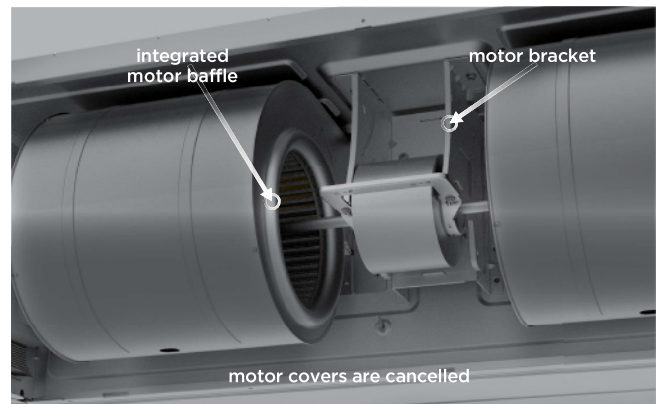
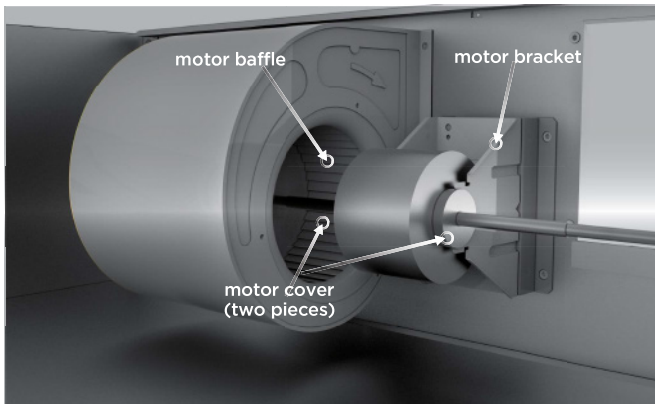
## Upgrade of Electric Control

The area of the electric control box has been increased by 10%, and the driver board has been miniaturized, reducing the area by 40%. Larger maintenance space, and more convenient to replace the electronic control box.

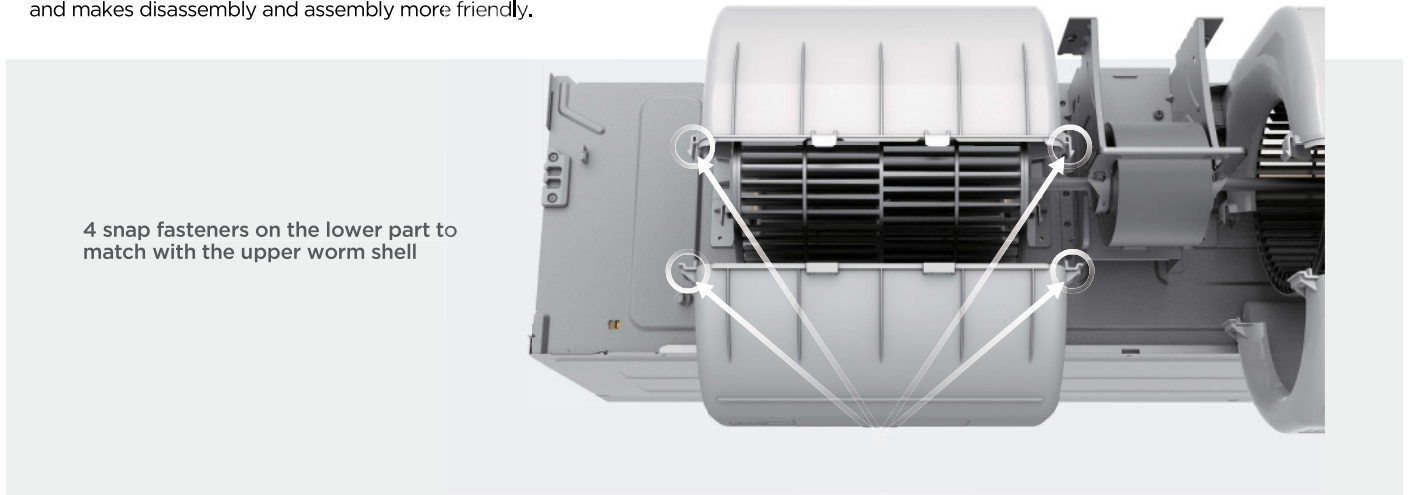


## Upgrade of Fan Motor

The design of integrated motor bracket, which is three parts integrated into one part, can improve installation stability, more friendly disassembly and assembly.



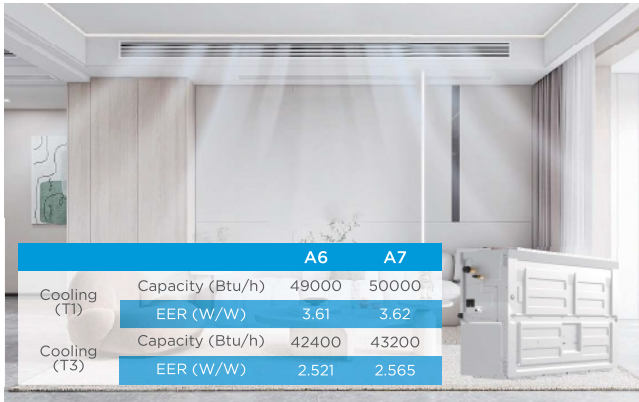
The volute spring buckle design improves installation stability and makes disassembly and assembly more friendly.



# Better Cooling Performance

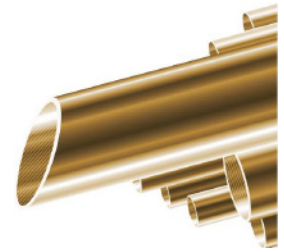
## Customized for Installers

Comparing with A6 Duct, A7 Duct achieves larger capacity of cooling no matter T1 or T3 situation.



		A6	A7
Cooling (T1)	Capacity (Btu/h)	49000	50000
	EER (W/W)	3.61	3.62
Cooling (T3)	Capacity (Btu/h)	42400	43200
	EER (W/W)	2.521	2.565

With slimmer inner groove high efficiency tubes and more circuits, Midea A7 Duct improves the efficiency of heat transfer, enabling fast cooling and resulting in larger cooling capacity, meanwhile, a 20% smaller size.



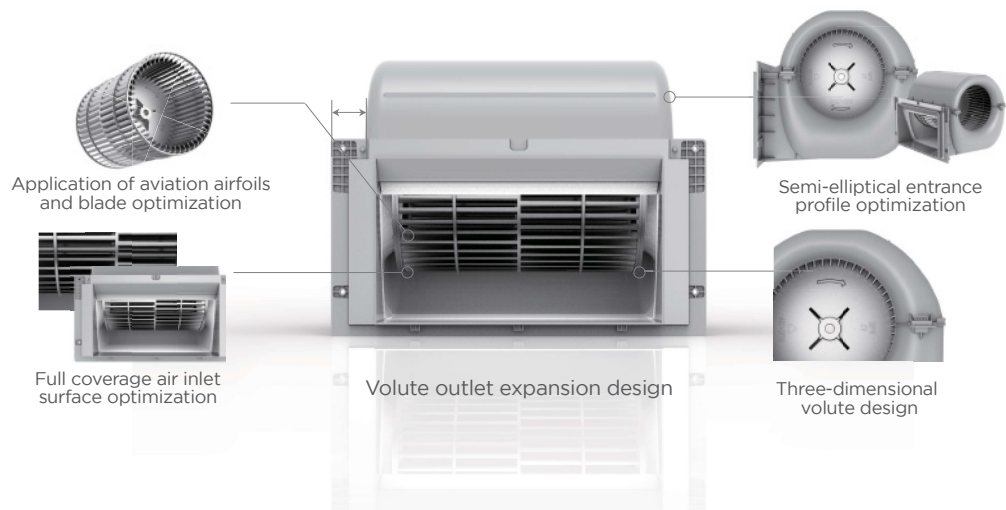
		A6	A7
Indoor coil	Tube outside dia.and type	Φ9.52 Inner groove tube	Φ7 Inner groove tube
	Number of circuits	9	11

# Low Noise

## Comfortable

### Optimization of Duct Design

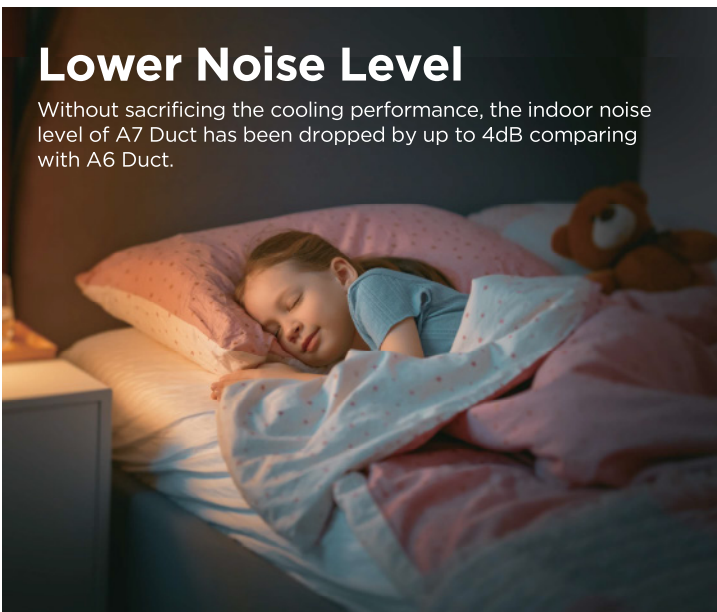
By applying the new design of duct, the interior noise level has been reduced significantly. End users would not get irritable easily even staying indoor for a long time.



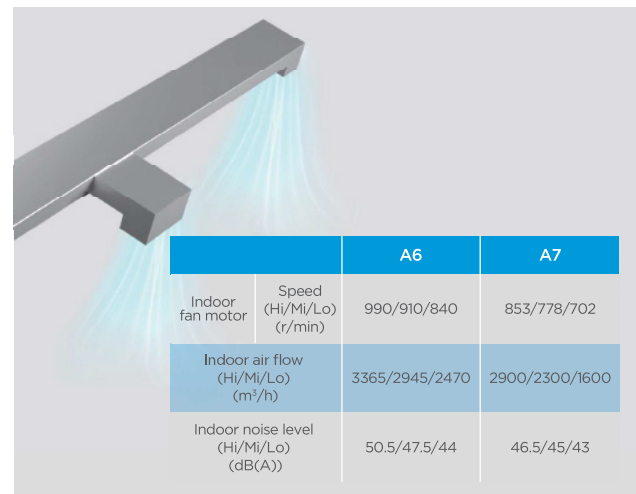
- Application of aviation airfoils and blade optimization
- Semi-elliptical entrance profile optimization
- Full coverage air inlet surface optimization
- Volute outlet expansion design
- Three-dimensional volute design

# Lower Noise Level

Without sacrificing the cooling performance, the indoor noise level of A7 Duct has been dropped by up to 4dB comparing with A6 Duct.



Without sacrificing the performance of cooling, both the airflow and the speed of indoor fan motor have been lower down to reduce 1dB to 4dB of indoor noise by the improvement of new eccentric fan design.



		A6	A7
Indoor fan motor	Speed (Hi/Mi/Lo) (r/min)	990/910/840	853/778/702
	Indoor air flow (Hi/Mi/Lo) (m³/h)	3365/2945/2470	2900/2300/1600
Indoor noise level (Hi/Mi/Lo) (dB(A))		50.5/47.5/44	46.5/45/43

**Prime Guard Golden Coating**

**Extreme Durability (Optional)**

**20 to 50-year**  
-corrosion-resistance fin  
Depended on the using industrial environment with salt contamination

**Verified by intertek**  
Total Quality Assured.  
(Ref. ISO 21207: 2015, Annex A, test method B)

**Hyper Grafins (optional)**

**HYPER GRAPFINS**  
After 240 hours UV test and 72 hours neutral salt spray(fog) test

**0.02%** corrosion area\*

**5X** corrosion resistance than golden coating

\* Midea exclusive anti-aging technology. Ref.test standard is QMK-J037,1021-2019 hydrophilic aluminum foil

**Verified by intertek**  
Total Quality Assured.

**Midea Exclusive Anti-aging Technology Test**

**External Static Pressure Adjustment**

Auto Airflow Volume Match can be initiated on 120K/L wired controller. It's the Midea exclusive technology to automatically adjust the static pressure of ducted unit for best sense of comfort and installation convenience. This function from 120K/L wired controller definitely beats the manual adjustment of static pressure as before.

**120 M**  
Make It Simple and Easier

- STYLISH APPEARANCE
- 3.5/4.3 IN. LCD DISPLAY SCREEN
- FOLLOW ME
- WIFI
- OPERATION LAMP
- INFRARED SIGNAL RECEIVER
- BACKLIGHT
- EASY TO CONTROL

**COPY**

Press the button of MODE and Fan SPEED together until the "AF" appears in display

Then press the button of MODE and the "AF" stars to flicker



# A6 Duct Specifications

## Appearance



## Optional Features :



INDOOR MODEL NO.			MTBTV18HRN5	MTBTV24HRN4	MHGTV60HWN3S
Power Supply		V,Hz,Ph	230V,1Ph,60Hz	230V,1Ph,60Hz	380-415-3-50/60
SEER			13.65	14.70	11.70
Energy Class			C	C	D
Cooling(T1)	Capacity	Btu/h	18000(5500-22000)	23700(7600-29500)	46400(11000-58000)
	Input	W	1440	1881	3742
	Current	A	6.45	8.24	5.65
	EER	(Btu/h)/W	12.50	12.60	12.40
Cooling(T3)	Capacity	Btu/h	14400	18900	40600
	Input	W	1674	2148	4536
	Current	A	7.5	13.23	7.01
	EER	(Btu/h)/W	8.60	8.80	8.95
Heating	Capacity	W	5650	7450	16600(3517-17233)
	Input	W	1570	2190	4487
	Current	A	7.20	10.00	6.84
	COP	W/W	3.60	3.40	3.70
Indoor air flow (Hi/Mi/Lo)		m3/h	973/805/632	1365/1100/880	3365/2945/2470
Indoor noise level (Hi/Mi/Lo)		dB(A)	43.5/39/34	40/38/36	50/47/45
Indoor unit	Dimension (W*D*H)	mm	880x674x210	1100x774x249	1400x858x440
	Packing (W*D*H)	mm	1070x725x280	1305x805x305	1605x910x505
	Net/Gross weight	Kg	25.8/31	32.6/39.9	75.5/86.3
Design pressure		MPa	4.8/1.5	4.8/1.5	4.8/1.5
Refrigerant piping (Liquid side/ Gas side)		mm(inch)	6.35(1/4in)/12.7(1/2in)	9.52(3/8in)/15.9(5/8in)	9.52(3/8in)/22(7/8in)
Thermostat Type			Wired Control	Wired Control	Wired Control
Operation Temperature		°C	17-30	17-30	17-30
Room temperature	Cooling	°C	17~32	17~32	17~32
	Heating	°C	0~30	0~30	0~30
OUTDOOR MODEL NO.			MTBTV18HRN5	MTBTV24HRN4	MHGTV60HWN3S
Power Supply		V,Hz,Ph	230V,1Ph,60Hz	230V,1Ph,60Hz	380-415-3-50/60
Max. Input Consumption		W	2600	3200	6100
Max. Current		A	12.9	14.1	14
Outdoor noise level		dB(A)	58.5	58	65
Outdoor unit	Dimension (W*D*H)	mm	890x342x673	946x410x810	952x415x1333
	Packing (W*D*H)	mm	995x435x750	1090x500x875	1095x495x1480
	Net/Gross weight	Kg	41/44.3	58.6/63.2	110/124
Refrigerant type		Kg	R410A/1.6	R410A/2.2	R410A/4.6
Design pressure		MPa	4.8/1.5	4.8/1.5	4.8/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35(1/4in)/12.7(1/2in)	9.52(3/8in)/15.9(5/8in)	9.52(3/8in)/22(7/8in)
	Max. refrigerant pipe length	m	25	25	50
	Max. difference in level	m	15	15	30
Ambient temperature	Cooling	°C	0~52	0~52	0~52
	Heating	°C	-15~24	-15~24	-15~24