



Avigator

SMART SAVE MATTERS

Inverter Split Wall Mounted
PRODUCT CATALOGUE
2025

Master AI Saving, Better Comfort Cooling

Real AI master control based on giga-scale big data, Balancing energy-saving and comfort needs.



MASTER
GIGA DATA



MASTER
PRECISE CONTROL



MASTER
COMFORT SAVING



1 Bigger Than Bigger, Master Giga Data

Powered by the industry's largest operational data, ECOMASTER can deliver much faster and more accurate comfort energy saving, far ahead of conventional inverter technologies.

Master World's Largest Inverter AC Production

41 Millions



Master Industry Largest AC Operational Data

100 Billions



Master Energy Innovation Globally with

805 Patents



2 Smart Than Smarter, Master Precise Control

By pre-training the multi-dimensional environmental factors, ECOMASTER can predict the best AC operation way based on user historical preferences and dynamic room conditions.

AI ECOMASTER VS

**Faster and Precise Control
Achieving Energy Saving and Comfort**

1 Multi-dimensional Data Sources
Real-time indoor and ambient condition data, AC operational data, weather forecast data

2 Predict data every 30s and response to the environment temperature precisely.

Other ECO

Imprecise Control, High Temperature Fluctuation, Energy Wastesa

1 Single data source of only indoor temperature

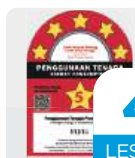
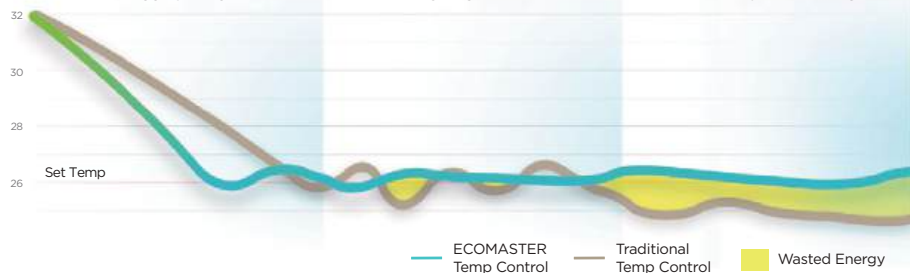
2 Simple control logic from limited preset settings without reacting to changes in the condition of the room.

3 Inverter Than Inverter, Master Comfort Saving

COOL DOWN FASTER THAN CONVENTIONAL

LESS TEMP FLUCTUATIONS DURING THE DAY

DECREASE IN OUTPUT AND KEEP TEMP STABLE AT NIGHT



49%^{*1}
LESS ENERGY

^{*1} Percentage energy saving compare to the lowest 2 stars rating air conditioning. 49% is applicable to IHP Avigator Inverter.

MASTER

40%^{*2} Extra

Energy Saving with AI Algorithm

Verified by



MASTER

**AI Temperature Control
±0.3°C**

^{*2} Compare the 4-hour power consumption of the same model in ECOMASTER mode and normal mode.

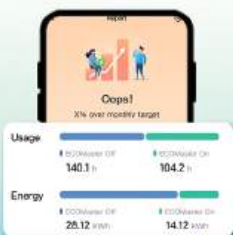


VISIBLE SAVING UNDER YOUR THUMB



Energy Monitor

Monitor the daily, weekly, and monthly usage duration and energy consumption of the air conditioner.



Energy Report

The energy consumption report includes ECOMASTER activation time, energy usage, and comparisons with the previous month.



Time Forecasting

Active ECOMASTER at cool mode, you can see how soon the room temperature is going to reach the target temperature.



Energy Reminder

Set a monthly energy consumption target, and you will be notified once the consumption reaches a percentage of the set target.

SMART CONTROL



SmartHome
Smart Compatible



LBS

Location Based Services

The AC can adjust its mode based on the location, e.g. automatically turning on the AC from 15km away before arriving home.



Sleep Curve

Customize your preferred sleep mode with sleep duration, temperature and fan speed.



Gear Control

Upgraded to 5 levels to achieve more accurate power control to meet different usage scenarios.

TURBOJET ENGINE SYSTEM

Higher Efficiency, Larger Air Volume, Stronger Cooling



Evaporator

Larger evaporator for higher heat exchange efficiency

Air Volume +15mm | U Tube +2 More

Cross Flow Fan

Larger cross flow fan brings a stronger cooling experience.

Length +12mm | Diameter +6mm

Rotating Deflector

Larger swing angle, Further air distance.

LIVING ROOM

Enjoy Cooling From A Distance

BEDROOM

Avoid Direct Wind and Sleep In Immersive Cooling



COOL FLASH

The latest generation of COOLFLASH achieves faster cooling speed, stronger air circulation, larger swing angle, and further airflow distance through dual upgrades of hardware and software.

With one press of the COOLFLASH button, your room can be quickly cooled down to the desired temperature, immersing you in an evenly cool room.

25%* Faster Cooling
v.s. Non-Inverter AC

6°C in 10min from 36°C to 30°C

Air Volume
787M³/h

Air Distance**
9.2M

*3 Tested by Midea Lab for 10-minute cooling. The room temp of 1.5HP Avigator AC dropped by 6°C, while Midea 1.5HP non-inverter AC dropped by 4.8°C, with an initial room temp is 36°C, and the outdoor temp is 43°C, 60% RH.

+4 Tested on the 1.5HP Avigator AC in turbo mode by Midea Lab, the farthest distance refers to a wind speed of no less than 0.3m/s



Prime Guard

Prime technologies in reliability and durability Guard comfort cool.

TU1 Corrosion-Resistance Copper Tube

70%  **less impurities than ordinary tubes.**

Compared with the ordinary tubes, TU1 reduces the impurity content, and its corrosion resistance and thermal conductivity are improved.

TP2

More Impurities & Less Consistency

VS

TU1

Fewer Impurities & Better Consistency



Silver Shield Anti-corrosive Coating

Both sides of the evaporator are coated with "environmentally friendly polymer coating & technological baking method" to prevent the copper pipe from being polluted and corroded by air pollutants, making it more secure and durable.

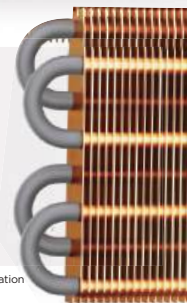
<0.1% ^{*5} **vs** **>50%**

Anti-corrosive Coated Pipe

Ordinary Pipe

Verified by **Intertek**

^{*5}Depended on the using industrial environment with salt contamination (Ref. ISO 21207: 2015, Annex A, test method B)



Wide Voltage Operation

Thanks to Ultra Electronic Control System, Midea's Inverter can work stably in 80V-265V^{*6}. Whether it is the peak of urban electricity consumption or the shortage of power supply in remote areas, it can always work consistently and smoothly.

CONVENTIONAL 184V 265V

MIDEA 80V 265V

^{*6}The voltage operation range of BP3 is 80-265V, BP2 is 150-265V, and 18k and above is 120-256V.



Reliable PCB with UV Conformal Coating

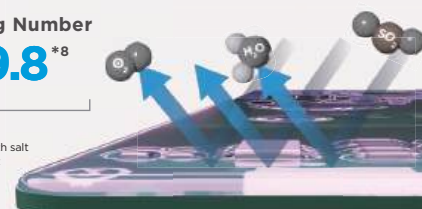
Curing using UV light, Greener and with 2x Thicker and Higher Density Protection

Corrosion Area **<0.02%** ^{*7} **Rating Number** **9.8** ^{*8}

Verified by **Intertek**

^{*7}Depended on the using industrial environment with salt contamination (Ref. ISO 21207: 2015, Annex A, test method B, JIS Z 2371:2015 Annex JC)

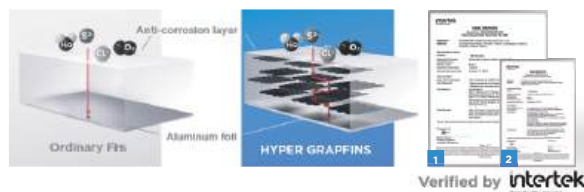
^{*8}The full rating number is 10.



HYPER GRAPFINS™

12.5X ^{*9} **Corrosion Resistance than Blue Coated Fins**

Graphene is a single monolayer of carbon atoms, tightly bound in a hexagonal honeycomb lattice. When graphene is added to the anti-corrosion layer, the density of the layer can be improved to resist corrosion.



AUTO DEDUSTING

When the AC is turned off, the fan blade of the outdoor unit will automatically rotate in reverse to get rid of the accumulated sand and dust, ensuring the AC is clean and operates well in any environment.

^{*9}The judgment standard of corrosion resistance is based on comparing the maximum corrosion area ratio of the rating number in JIS Z 2371-2015. Compared samples are Midea fins: Midea blue coated fins in HD2202-2/HW3308. Midea HYPER GRAPFINS in HMD01/HW3308.

Healthy Air Management

I - Clean Reclean the AC, Refresh your breath.

Midea Inverter AC has been upgraded from water washing (20 mins) to frost cleaning (42 mins^{*10}), which can remove more dust and bacteria, keeping the AC clean and performing well.

Condensed Water

10min

Cooling mode & Mid-speed wind

Frosting

10min

The temperature cools rapidly ($T \leq -10^{\circ}\text{C}^{*10}$) and frost forms on the evaporator surface.

Washing

20min

Defrost into water to remove dust and dirt.

Drying

2min

Dry the evaporator to prevent mold growth.

Total 42mins

^{*10}Total cleaning time and frosting temperature will vary depending on operating environment; maximum cleaning time is 42 minutes.

99% ^{*11}

VIRUS ELIMINATION



Air magic 365 Days to a Clean, Fresh, Healthy Air

Under the effect of electric field generated by ion generator, millions of positive and negative ions are formed to eradicate bacteria and viruses with higher sterilization rate.

Moreover, running the "Air Magic" feature in fan mode 24 hours a day consumes less than 1 kWh.

^{*11}Tested by Guangdong Detection Center of Microbiology. Test time: 2h, Virus: H1N1.



Easy To Install

Pull-down Structure

Just loosen ONE screw to remove the PULL-DOWN Structure, and stretch out the Built-in Support Holder for enlarged working space and improved visibility, providing installers with a better installation solution.



1

Screw Just Loosen



2

Sliders



3

Enlarged Working Space



4

Built-in Support Holder and Groove
More Convenient and Stable



Easier, Quicker & More Installer-friendly Solution

IN Embedded Pipe

Enlarged Working Space & Improved Visibility

Loosen 1 screw to dismantle the pull-down frame for higher working efficiency



NEW

Previous AC



Insufficient Working Space
resulting in having to loosen 5 screws and dismantle the entire frame

IN 5cm Ceiling

A better solution without disassembling the entire frame



NEW

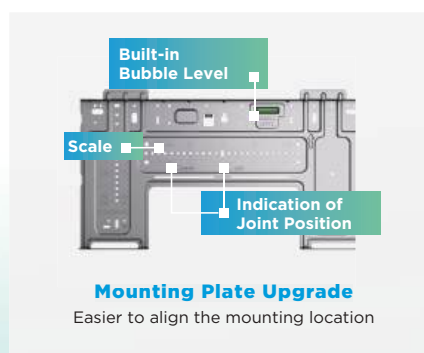
* Please remove the support holder before installation in the case of a 5cm ceiling.

Previous AC



Limited ceiling space
makes it difficult for AC to recover the frame.

Installer-friendly Design



Mounting Plate Upgrade

Easier to align the mounting location



Pocket Hole

More space for a wrench



Wire Tunnel

Tool-less Wiring
Fewer steps, Easier Wiring



Previous AC

Cutter Required

Easy To Maintain

Quick and Easy to Pull-out PCB The Easier Solution for PCB Replacement

5 steps
Maintenance efficiency increased by **32%**
⌚ 74S

- 1** Open the Front Panel (3S)
- 2** Remove ONE screw from the Electronic Control Box (5S)
- 3** Take Away the Electronic Control Box Cover (3S)
- 4** Remove Wire Terminals (60S)
- 5** Pull Out the PCB (3S)

Ordinary AC
8 steps
⌚ 109S

- 1** Open the Front Panel (3S)
- 2** Remove Screws from the Frame (15S)
- 3** Unlock 3 Buckles/Slider Locks (15S)
- 4** Remove the Front Frame (15S)
- 5** Remove Screws from the Electronic Control Box (5S)
- 6** Take Away the Electronic Control Box Cover (3S)
- 7** Remove Wire Terminals (60S)
- 8** Pull Out the PCB (3S)

Pull-out Fan Motor The Easier Solution for Fan Motor Replacement

4 steps
Maintenance efficiency increased by **72%**
⌚ 3min 20s

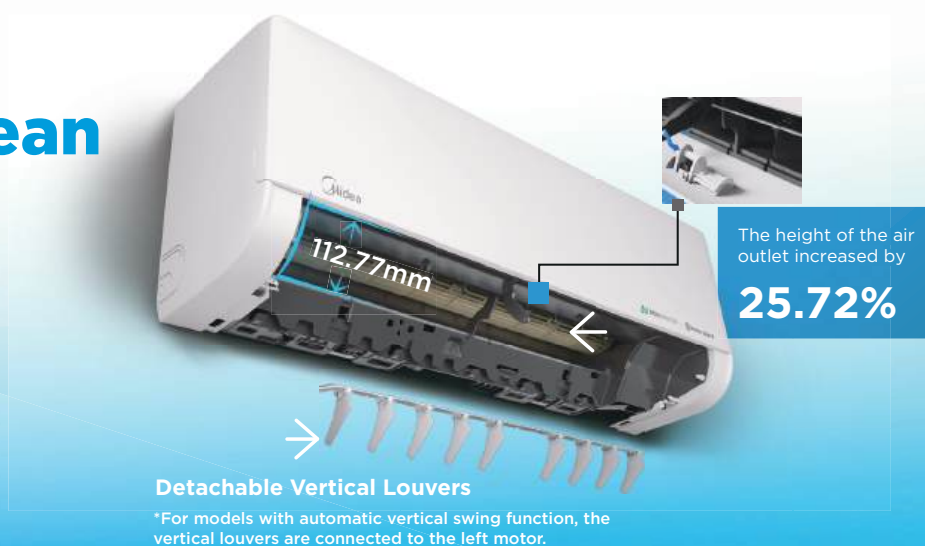
- 1** Remove the Front Frame (1min)
- 2** Remove the Electronic Control Box (1min)
- 3** Take Away the Motor Bracket (1min)
- 4** Pull Out the Fan Motor (20S)

Previous AC
7 steps
⌚ 12min

- 1** Turn On the AC (3s)
- 2** Recycle Refrigerant (2min)
- 3** Remove the IDU from the Wall (5min)
- 4** Remove the Front Frame (1min)
- 5** Remove the Electronic Control Box (1min)
- 6** Remove the Evaporator (2min)
- 7** Pull Out the Fan Motor (1min)

Easy To Clean

The more accessible the wind wheel is, the deeper the cleaning.



FEATURES



ECOMASTER
40% Extra Energy
Saving



HYPER
GRAPFINS



Reliable PCB With
UV Conformal
Coating



Tu1 Corrosion-
Resistance
Copper Tube



Silver Shield
Anti-Corrosive
Coating



Wide Voltage
Operation



Auto Dedusting



Follow Me



Smart
Diagnosis



Smart Control



Easy To
Install



Easy To
Maintain



Easy To
Clean



Air Magic+



I-Clean



Coolflash
Turbojet Engine
System 6°C quickly in
10 mins



Low Noise



3D Airflow

APPEARANCE



Indoor Unit



Remote Control

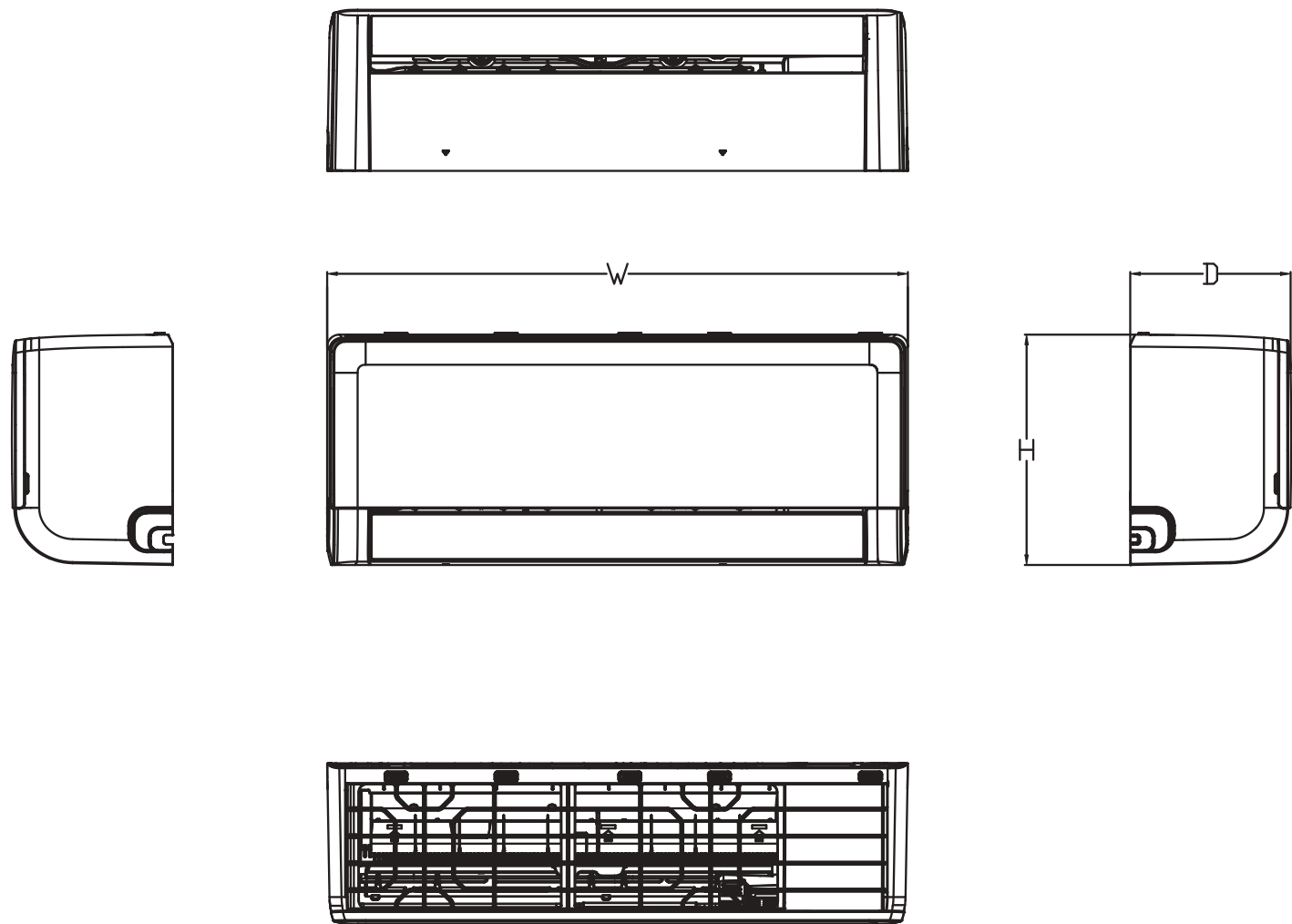


Outdoor Unit

SPECIFICATIONS

Model	Indoor		MSAI-10CRFN8-ID	MSAI-13CRFN8-ID	MSAI-19CRFN8-ID	MSAI-25CRFN8-ID
	Outdoor		MSAI-10CRFN8-OD	MSAI-13CRFN8-OD	MSAI-19CRFN8-OD	MSAI-25CRFN8-OD
Cooling Capacity	Rated (Min-Max)	Btu/h	9,500 (3,036-13,136)	12,500 (2,798-14,876)	18,500 (2,800-19,970)	24,500 (8,220-25,200)
Power consumption	Rated (Min-Max)	W	760 (190-1,100)	1,100 (180-1,390)	1,688 (244-2,040)	1,990 (690-2,450)
Running current	Rated (Min-Max)	A	5.2 (1.6-5.6)	4.9(1.5-6.2)	8.46 (1.6-9.41)	8.77 (3-10.65)
CSPF(Cooling seasonal performance factor)		Wh/Wh	6.04	5.46	5.27	5.39
Energy Efficiency Star Rating						
Power supply		V,HZ,Ph	220-240V~,50Hz,1Ph (power supply to indoor)			
Indoor unit	Indoor air flow (H)	m³/h(cfm)	625 (368)	625 (368)	895 (526)	1,190(700)
	Indoor Sound level (H/M/L)	dB(A)	37.5/30/27.5	38/31.5/29	44/37.5/34	47/40/37.5
	Dimension(W*D*H)	mm	813x201x289	813x201x289	975x218x308	1055x231x330
	Packing (W*D*H)	mm	870x270x365	870x270x365	1035x295x385	1130x405x310
	Net/Gross weight	Kg	8.5/10.8	8.5/10.8	10.9/14.4	13.1/17.1
Outdoor unit	Outdoor Sound level	dB(A)	53	54	56	57
	Dimension(W*D*H)	mm	720x270x495	720x270x495	765x303x555	890x342x673
	Packing (W*D*H)	mm	835x300x540	835x300x540	887x337x610	995x398x740
	Net/Gross weight	Kg	19.6/21.4	19.6/21.4	25.1/27.8	37.5/40.6
	Refrigerant Charge	g	R32/380g	R32/420g	R32/720g	R32/850g
	Design pressure	MPa	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")
	Max. refrigerant pipe length	m	25	25	30	50
	Max. difference in level	m	10	10	20	25
Indoor-Outdoor connection wiring (Not included)			4x1.5 mm2	4x1.5 mm2	4x2.5 mm2	4x2.5 mm2
Power supply wiring (Not included)			3x1.5 mm2	3x1.5 mm2	3x2.5 mm2	3x2.5 mm2
Thermostat type			Wireless Remote Control,Smart App control(build in), (Wired control optional)			

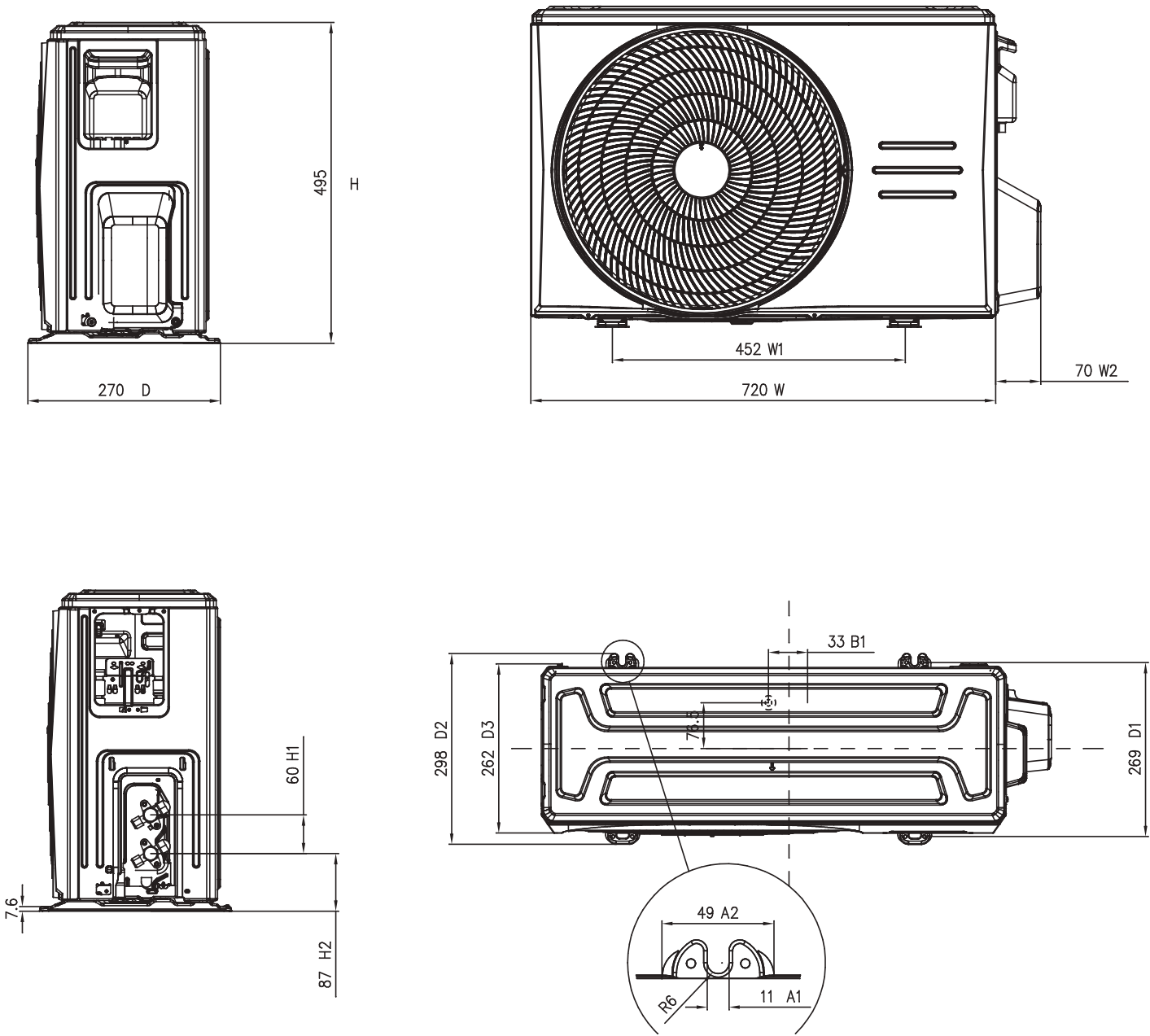
INDOOR UNIT DIMENSION



AVIGATOR INDOOR DIMENSION			
Model	W (mm)	D(mm)	H(mm)
MSAI-10CRFN8	813	201	289
MSAI-13CRFN8	813	201	289
MSAI-19CRFN8	975	218	308
MSAI-25CRFN8	1055	231	330

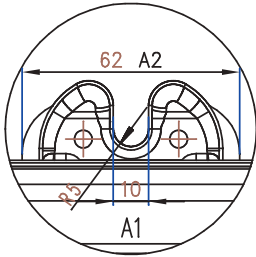
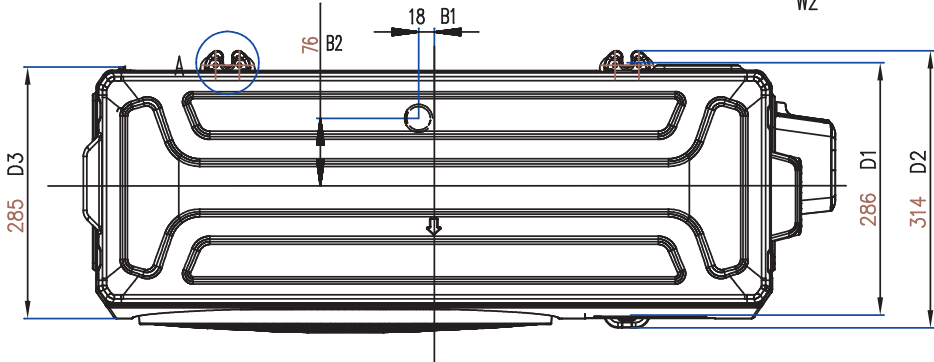
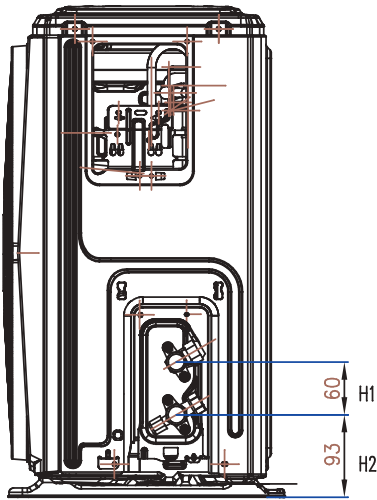
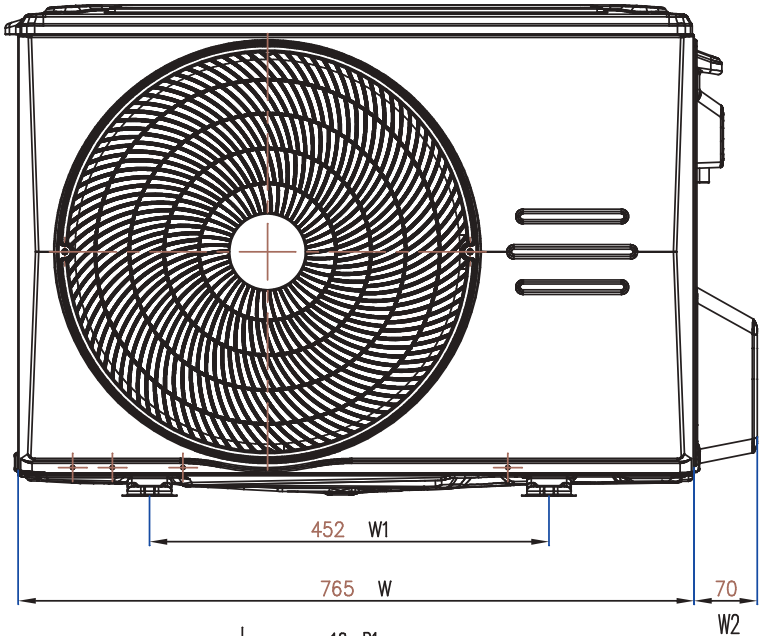
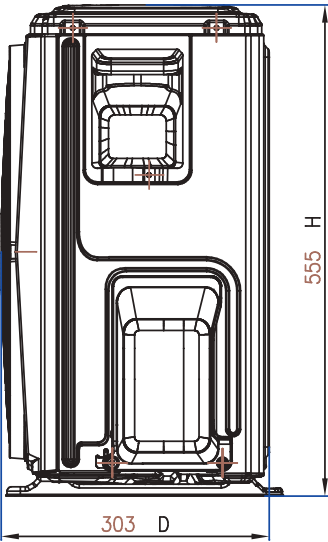
OUTDOOR UNIT DIMENSION

MSAI-10CRFN8-OD & MSAI-13CRFN8-OD



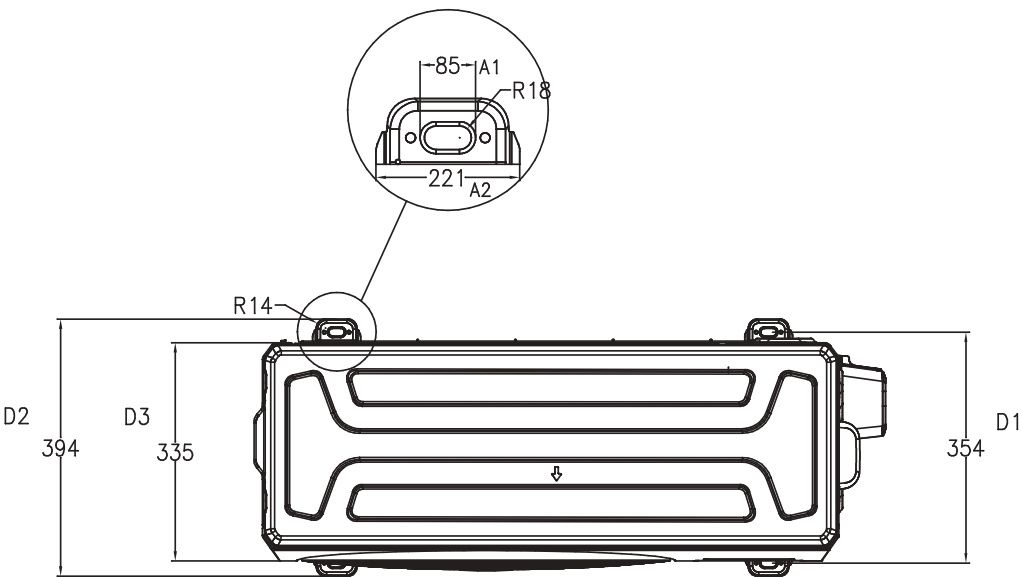
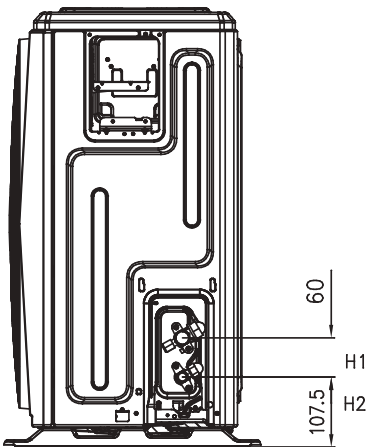
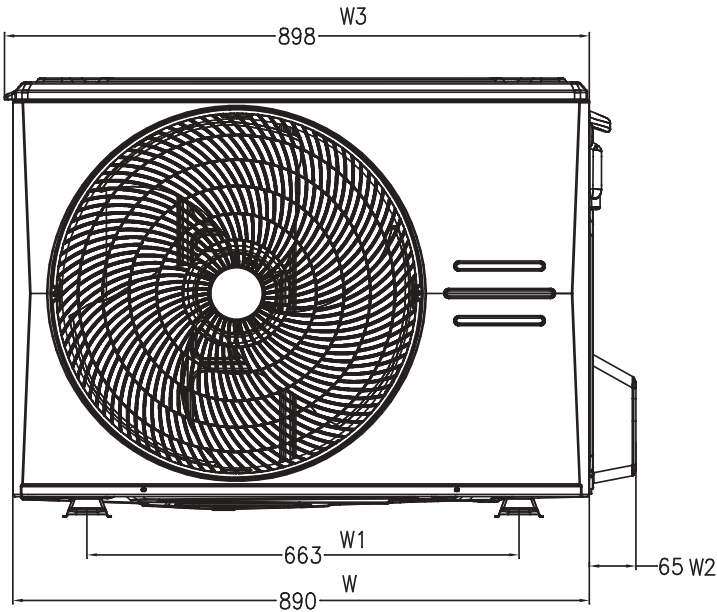
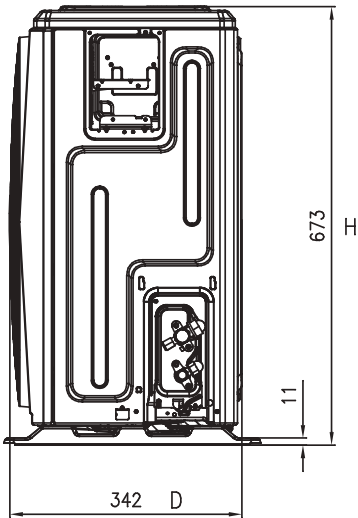
OUTDOOR UNIT DIMENSION

MSAI-19CRFN8-OD



OUTDOOR UNIT DIMENSION

MSAI-25CRFN8-OD



ERROR CODE QUICK TROUBLESHOOTING

Display Code	Error Information	Quick Solution
dF	Defrost	Normal Display, not error code
CL	Active Clean	
nF	Filter replacement reminder(power on display for 15 seconds)	
FC	Forced cooling	
AP	AP mode of WIFI connection	
CP	Remote switched off	
SD	Power abnormal detection	Check power supply
EH 00/EHOR	Indoor EEPROM malfunction	Check power and Indoor PCB
EL 01	Communication malfunction between indoor and outdoor units	S signal wire conencton, outdoor main control board, indoor PCB
EH 02	Zero-crossing signal detection error	Check connection wire, check indoor PCB
EH 03	The indoor fan speed is operating outside of the normal range	Check indoor fan motor wire connection,indoor PCB, indoor Fan motor
EC 51	Outdoor EEPROM parameter error	Outdoor main PCB
EC 52	Condenser coil temperature sensor T3 is in open circuit or short circuit	Check outdoor condenser coil sensor or main PCB
EC 53	Outdoor ambient temperature sensor T4 is in open circuit or short circuit	Check outdoor condenser room temp. sensor or main PCB
EC 54	Compressor discharge temperature sensor TP is in open circuit or short circuit	Check outdoor compressor discharge temp. sensor or main PCB
EH 60	Indoor room temperature sensor T1 is in open circuit or short circuit	Check indoor room temp. sensor
EH 61	Evaporator coil middle temperature sensor T2 is in open circuit or short circuit	Check indoor coil temp. sensor
EC 07	The outdoor fan speed is operating outside of the normal range	Check outdoor fan motor wire connection,outdoor main PCB, outdoor Fan motor
EH 0b	Communication error between indoor PCB and display PCB	Check indoor display board connection wire
EL 0C	Refrigerant leakage detection System lacks refrigerant	Check gas leaking, copper pipe flare nut, indoor PCB
PC 00	IPM malfunction or IGBT over-strong current protection	Wire connection, Inverter modular, Outdoor Main PCB, compressor
PC 01	Outdoor unit voltage protection (low or high voltage)	Power supply, Inverter modular, Outdoor Main PCB, Reactor
PC 02	"Compressor top discharge temperature sensor protection IPM module or High pressure protection"	Check sensor, gas pressure, system blockage
PC 04	Inverter compressor drive error	Inverter modular, Outdoor Main PCB, compressor
PC 40	Communication error between outdoor main chip and compressor driven chip	Check outdoor main PCB
PC 03	High pressure protection or low pressure protection	Check outdoor main PCB
PC 08	Current overload protection	Wire connection, Outdoor Main PCB, Reactor, Outdoor Fan motor
FH 0P	AP mode is active but there is no WIFI kit installed	Check Wi-Fi connection

Midea Scott & English Electronics Sdn Bhd (194517-X)

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PENANG

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Pusat Perniagaan Gemilang,
14000 Bukit Mertajam, Pulau Pinang.
Tel: 04-548 3938 Fax: 04-548 9698

JOHOR

No. 25, Jalan Seri Impian 1,
Taman Impian Emas,
81300 Skudai, Johor.
Tel: 07-562 4898 Fax: 07-557 7898

PERAK

No. 38, Persiaran Perindustrian Pengkalan 10,
Kawasan Perindustrian Pengkalan,
31500 Lahat, Perak.
Tel: 05-323 2529 Fax: 05-323 2529

PAHANG

No. 258, Ground Floor, Jalan Air Putih,
Taman Air Putih Mewah,
25350 Kuantan, Pahang Darul Makmur.
Tel: 09-560 6668 Fax: 09-09-560 5050

MALACCA

No. 385-L, Taman Peringggit Jaya,
75400 Peringggit, Melaka.
Tel: 06-292 1940 Fax: 06-286 7107

KOTA BHARU

PT 1436, Ground Floor,
Taman Koperatif, Tanjung Chat,
15300 Kota Bharu, Kelantan.
Tel/Fax: 09-743 1202

SABAH

Inanam Suria Commercial Centre,
Lot B, Unit 0-9, Unit 1-9,
Ground Floor and First Floor,
88450, Kota Kinabalu, Sabah.
Tel: 088-421 428 Fax: 088-431 427

SARAWAK

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Stutong Commercial Centre, Jalan Stutong,
93350 Kuching, Sarawak.
Tel: 082-363 167 Fax: 082-366 167

Midea Care Line

1300-22-0133

Dealer's Stamp:



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Midea Malaysia



midea.com/my