Midea

numen
INVERTER

SURPRISE MOMENTS

Inverter Split Wall Mounted

PRODUCT CATALOGUE

2025

AI ECOMASTER

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

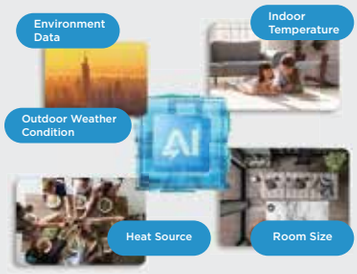
Powered by the industry's largest operational data, ECOMASTER can deliver much faster and more accurate comfort energy saving, far ahead of conventional inverter technologies.

Master World's Largest Inverter AC Production

41 Million

Master Industry Largest AC Operational Data

100 Billion Level Data



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

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.

VS

Other ECO

Imprecise Control,
High Temperature Fluctuation, Energy Wastes

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

38%*

LESS ENERGY

Percentage energy saving compare to the lowest 2 stars rating air conditioning. 38% is applicable to 1HP Numen Inverter.

MASTER

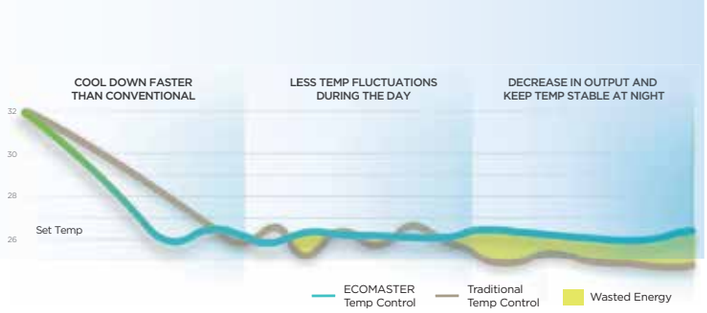
30%* Extra

Energy Saving with AI Algorithm

MASTER AI Temperature Control

±0.3°C

Verified by SGS Performance Tested



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

Prime Guard

Built to Last

Prime technologies in reliability and durability Guard comfort cool.

- **Tu1 Corrosion-Resistance Copper Tube**
- **Silver Shield Anti-Corrosive Coating**
- **Wide Voltage Operation**
- **Reliable PCB With UV Conformal Coating**
- **HYPER GRAPFINS**
- **Auto Dedusting**

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	VS	TU1
More Impurities & Less Consistency		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% (Anti-corrosive Coated Pipe) **VS >50%** (Ordinary Pipe)

Verified by intertek 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*. 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

* 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

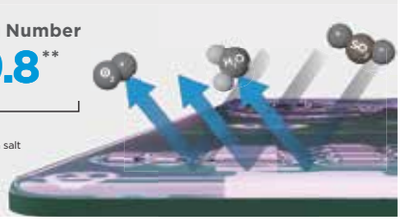
Curing using UV light, Greener and with 2x Thicker and Higher Density Protection

Corrosion Area	Rating Number
<0.02%*	9.8**

Verified by intertek

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

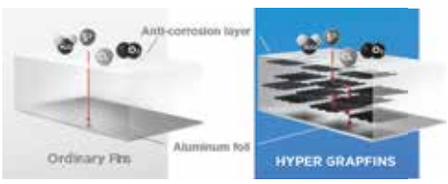
** The full rating number is 10.

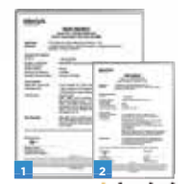


HYPER GRAPFINS™

12.5X* **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.





Verified by intertek

* 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 HMD011/HW3308.

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.

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), which can remove more dust and bacteria, keeping the AC clean and performing well.

1 **Condensed Water** 10min
Cooling mode & Mid-speed wind

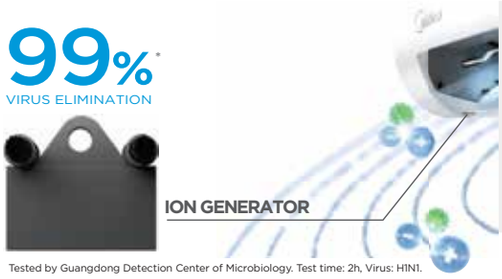
2 **Frosting** 10min
The temperature cools rapidly (T≤**-10°C**) and frost forms on the evaporator surface.

3 **Washing** 20min
Defrost into water to remove dust and dirt.

4 **Drying** 2min
Dry the evaporator to prevent mold growth.

Total **42mins**

99% VIRUS ELIMINATION



Tested by Guangdong Detection Center of Microbiology. Test time: 2h, Virus: H1N1.

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.

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, the room can be quickly cooled down to the desired temperature, immersing you in an evenly cool room.

5°C **in 10 mins*** from 36°C to 31°C

Air Volume	Air Distance**
665M³/h	8.1M

* Tested by Midea Lab for 10-minute cooling. The room temp of 1.5HP Numen AC dropped by 5°C, with an initial room temp is 36°C, and the outdoor temp is 43°C, 60% RH.
** Tested on the 1.5HP Numen AC in Coolflash mode by Midea Lab, the farthest distance refers to a wind speed of no less than 0.3m/s

Power Cooling Beats the Heat

Even at high temperatures of up to **55°C**, Midea Inverter still operates effectively, beating heat and providing optimal cooling to the room.

Smart Control (Optional)

Smart Home 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.

Energy Management

Enjoy a life of visible energy saving

Gear Control

Upgraded from 3 levels (50%, 75%, 100%) to 5 levels (20%, 40%, 60%, 80%, 100%), more levels enable more accurate power control to meet different usage scenarios.
When you feel cool enough, you can choose a lower power level to save energy.

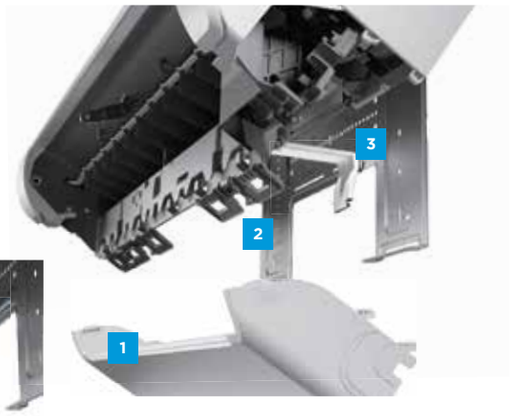
Less Power, Still Cool

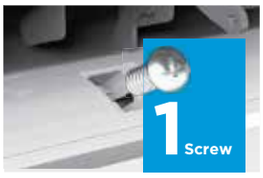
Energy Saving Still Comfort

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.





■ Just Loosen

■ Enlarged Working Space

■ More Convenient & 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

Previous AC

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

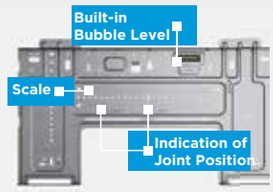
IN 5cm Ceiling

A better solution without disassembling the entire frame

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

Two Opening Angles of Panel
Available at 85° and 60°, suitable for more installation scenarios

Pocket Hole
More space for a wrench

Wire Tunnel
Tool-less Wiring
Fewer steps, Easier Wiring

Previous AC

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

2 Remove ONE screw from the Electronic Control Box

3 Take Away the Electronic Control Box Cover

4 Remove Wire Terminals

5 Pull Out the PCB

Ordinary AC **8 steps** (109S)

1 Open the Front Panel

2 Remove Screws from the Frame

3 Unlock 3 Buckles/ Slider Locks

4 Remove the Front Frame

5 Remove Screws from the Electronic Control Box

6 Take Away the Electronic Control Box Cover

7 Remove Wire Terminals

8 Pull Out the PCB

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

2 Remove the Electronic Control Box

3 Take Away the Motor Bracket

4 Pull Out the Fan Motor

Previous AC **7 steps** (12min)

1 Turn On the AC

2 Recycle Refrigerant

3 Remove the IDU from the Wall

4 Remove the Front Frame

5 Remove the Electronic Control Box

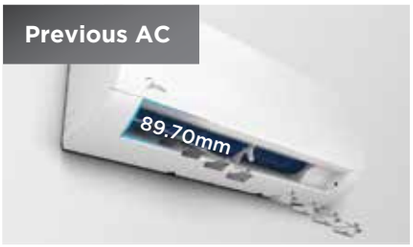
6 Remove the Evaporator

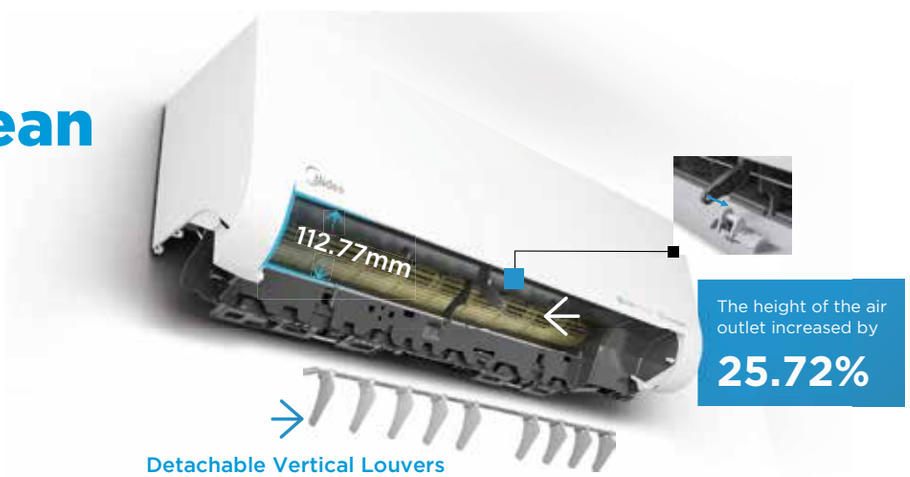
7 Pull Out the Fan Motor

Easy To Clean

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

Previous AC





The height of the air outlet increased by **25.72%**

Detachable Vertical Louvers

*For models with automatic vertical swing function, the vertical louvers are connected to the left motor.

FEATURES

- ECOMASTER — 30% 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 Optional
- Easy To Install
- Easy To Maintain
- Easy To Clean
- Air Magic+
- I-Clean
- Coolflash — 5°c In 10 Mins
- Low Noise

APPEARANCE

Indoor Unit

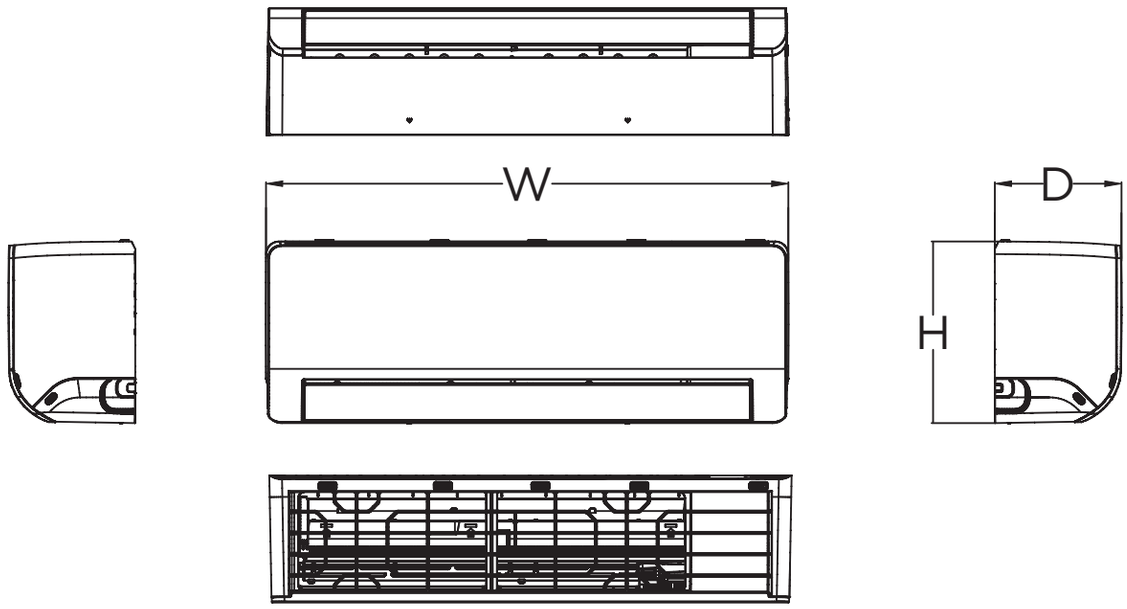
Remote Control

Outdoor Unit

SPECIFICATIONS

Model	Indoor		MSNE-10CRFN8-ID	MSNE-13CRFN8-ID	MSNE-19CRFN8-ID	MSNE-25CRFN8-ID
	Outdoor		MSNE-10CRFN8-OD	MSNE-13CRFN8-OD	MSNE-19CRFN8-OD	MSNE-25CRFN8-OD
Cooling Capacity	Rated (Min-Max)	Btu/h	10,000 (1,250-11,109)	12,000 (3,900-13,000)	18,000 (6,900-18,500)	24,000 (9,600-25,500)
Power consumption	Rated (Min-Max)	W	890(135-1,080)	1,134(150-1,300)	1,758(190-1,850)	2,512(790-2,750)
Running current	Rated (Min-Max)	A	3.87(1.01-4.7)	4.78(1.6-5.65)	7.64(1.48-8.7)	10.92(3.95-11.95)
CSPF(Cooling seasonal performance factor)		Wh/Wh	4.99	5.32	5.30	4.95
Energy Efficiency Star Rating						
Power supply		V,Hz,Ph	220-240V~,50Hz,1Ph (power supply to indoor)			
Indoor unit	Indoor air flow (H)	m^3/h(cfm)	630 (370)	630 (370)	895 (526)	1,112(654)
	Indoor Sound level (H/M/L)	dB(A)	39.5/34.5/31.5	39.5/34.5/31.5	44.5/37/34.5	47/40/36.5
	Dimension(W*D*H)	mm	825x199x286	825x199x286	986x216x305	1059x230x328
	Packing (W*D*H)	mm	895x290x365	895x290x365	1065x300x385	1140x420x330
	Net/Gross weight	Kg	7.8/9.8	7.8/9.8	10.1/13.9	12.1/16.6
Outdoor unit	Outdoor Sound level	dB(A)	52	55	56	59
	Dimension(W*D*H)	mm	668x252x469	720x270x495	765x303x555	805x330x554
	Packing (W*D*H)	mm	765x270x515	835x300x540	887x337x610	915x370x615
	Net/Gross weight	Kg	17/18.6	18.9/20.8	24.2/26.9	29.9/32.5
	Refrigerant Charge	g	R32/360g	R32/400g	R32/650g	R32/830g
	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 control, Wired control optional)			

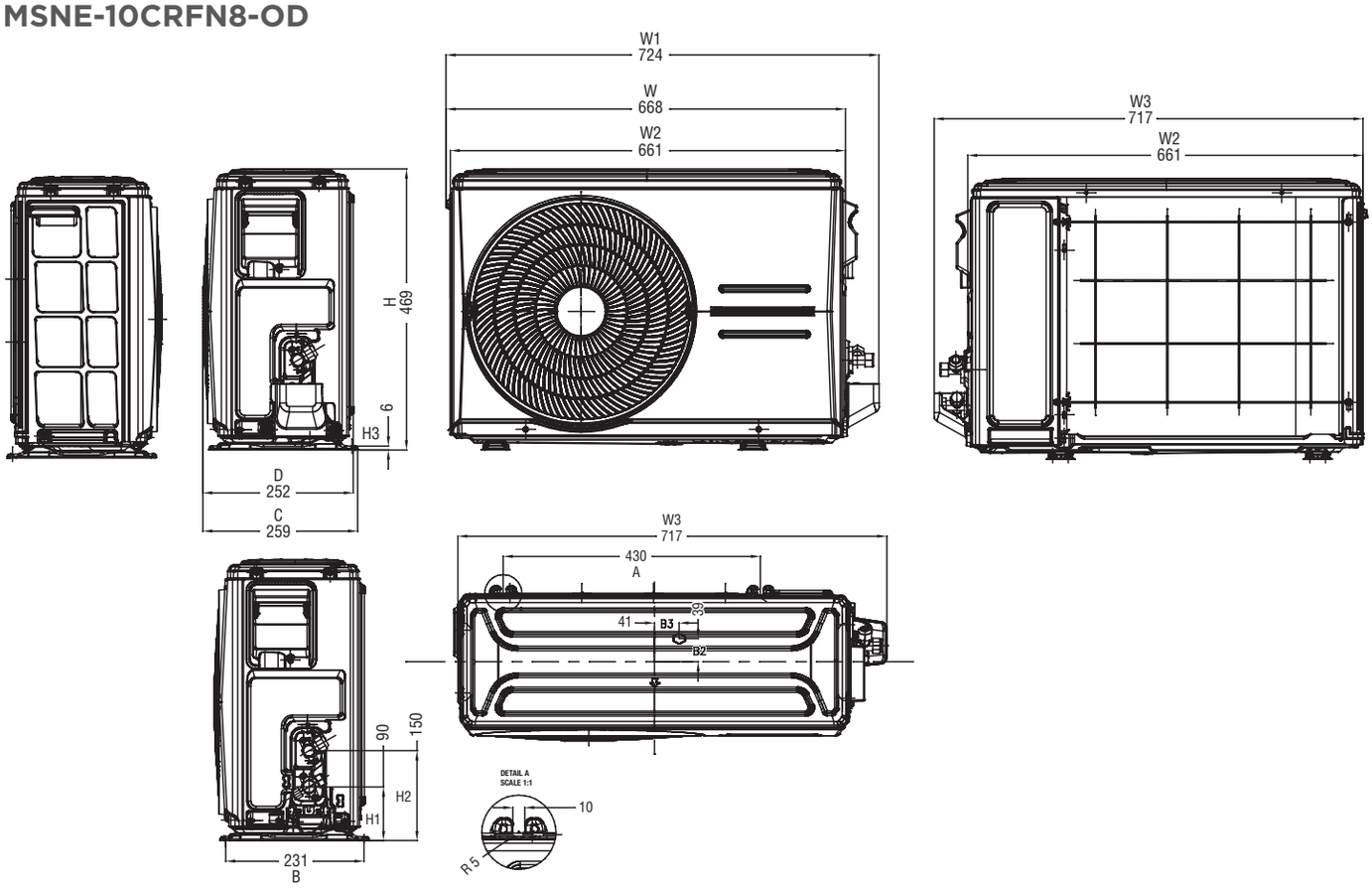
INDOOR UNIT DIMENSION



NUMEN INDOOR DIMENSION			
Model	**W (mm)**	**D(mm)**	**H(mm)**
MSNE-10CRFN8	825	199	286
MSNE-13CRFN8	825	199	286
MSNE-19CRFN8	986	216	305
MSNE-25CRFN8	1059	230	328

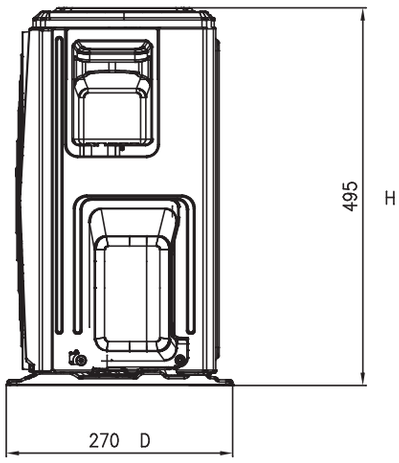
OUTDOOR UNIT DIMENSION

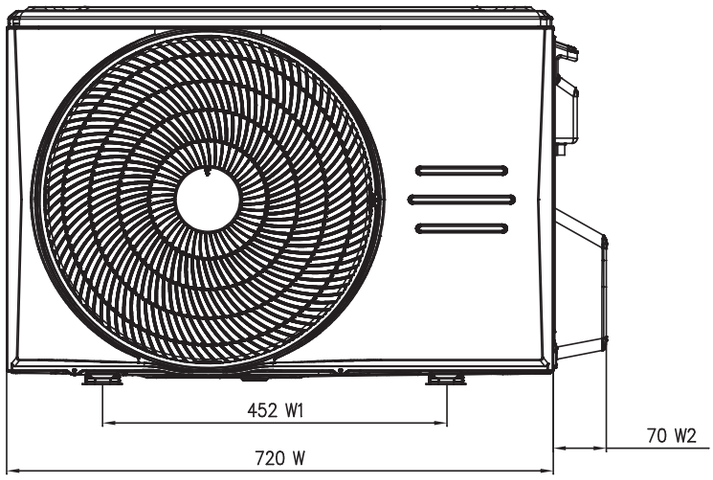
MSNE-10CRFN8-OD

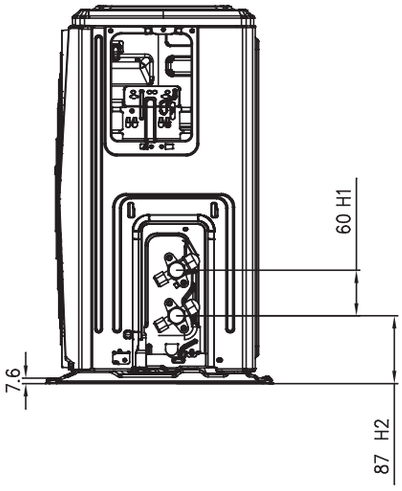


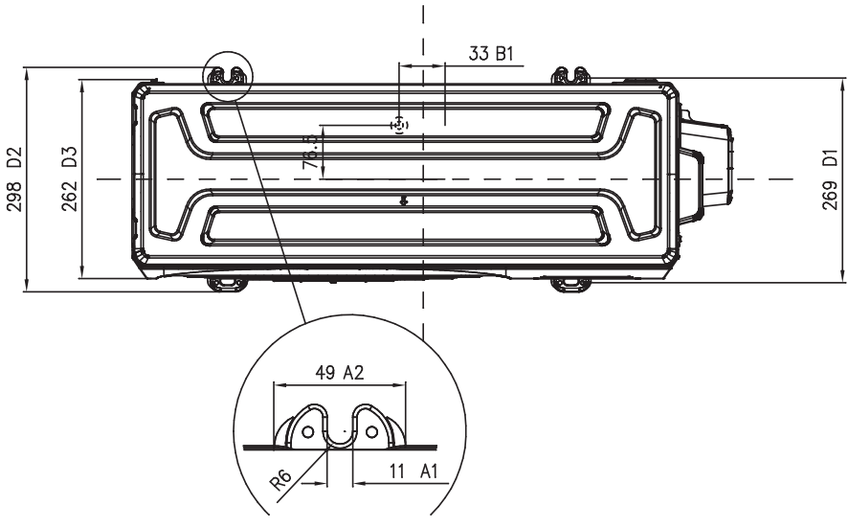
OUTDOOR UNIT DIMENSION

MSNE-13CRFN8-OD



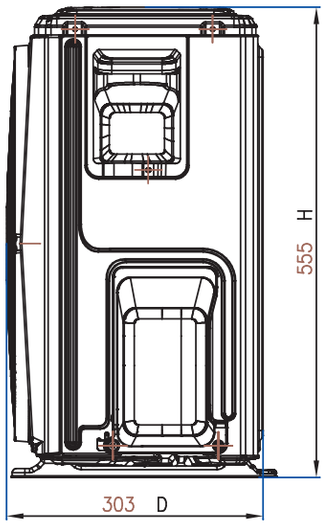


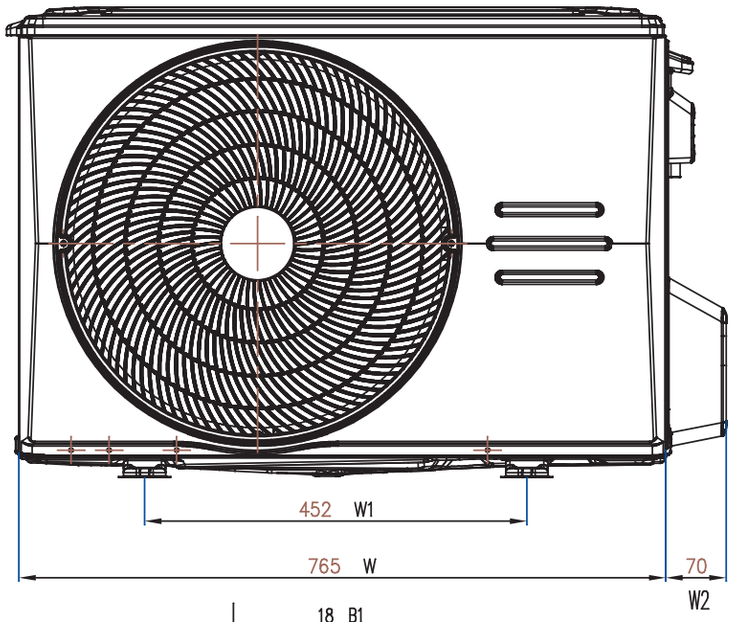


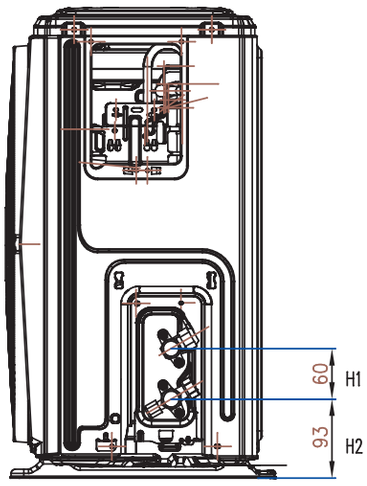


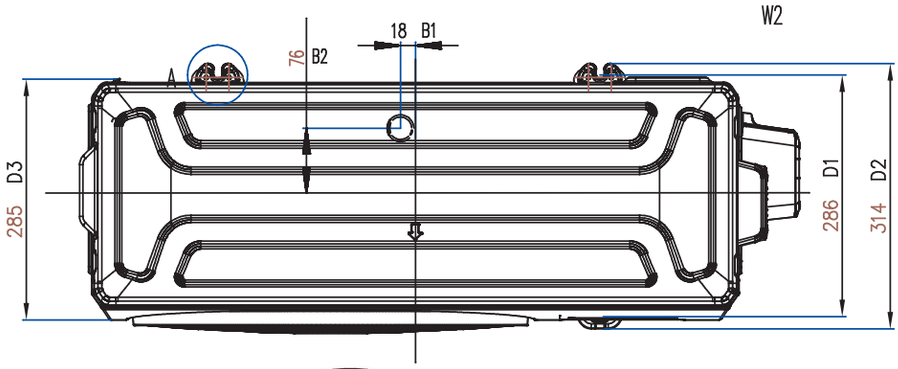
OUTDOOR UNIT DIMENSION

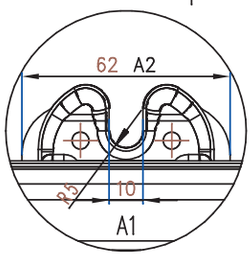
MSNE-19CRFN8-OD





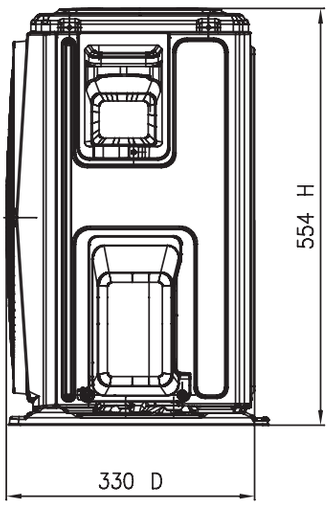


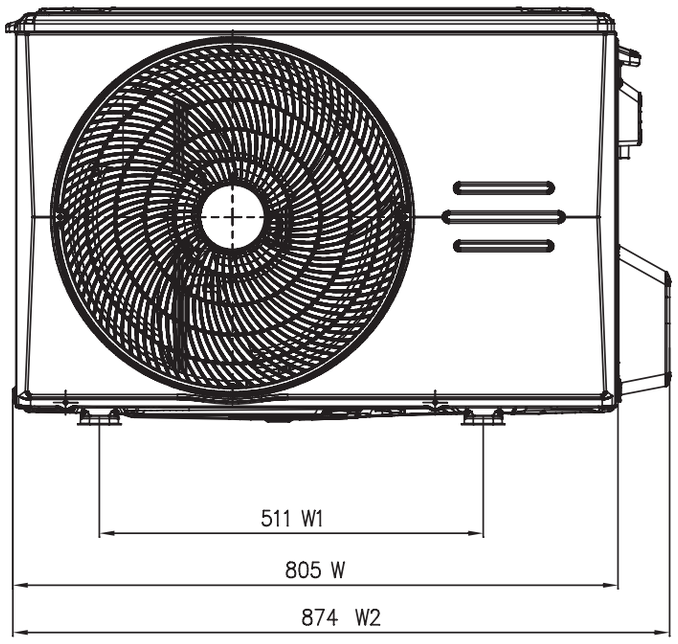


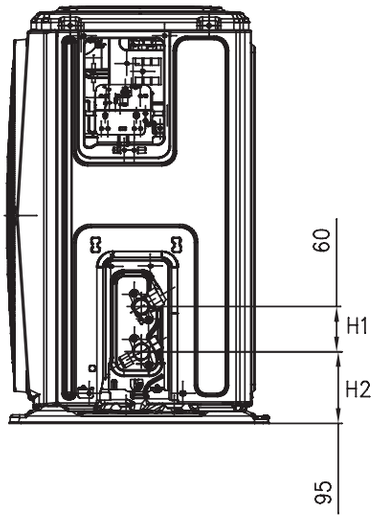


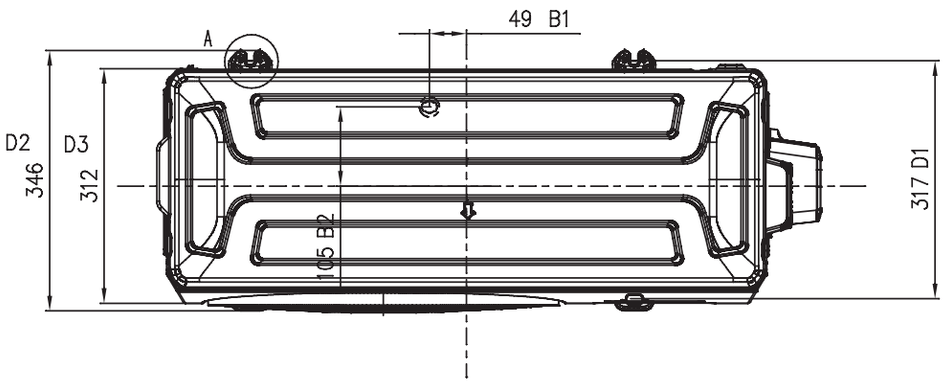
OUTDOOR UNIT DIMENSION

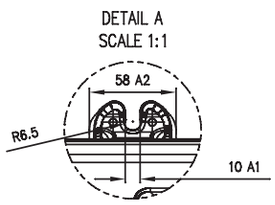
MSNE-25CRFN8-OD











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/EH0R	Indoor EEPROM malfunction	Check power and Indoor PCB
EL 01	Communication malfunction between indoor and outdoor units	S signal wire conenciton, 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

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Pusat Perniagaan Gemilang,
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No. 25, Jalan Seri Impian 1,
Taman Impian Emas,
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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 Peringgit Jaya,
75400 Peringgit, Melaka.
Tel: 06-292 1940 Fax: 06-286 7107

KOTA BHARU
PT 1436, Ground Floor,
Taman Koperatif, Tanjung Chat,
15300 Kota Bharu, Kelantan.
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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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