Midea



Solunar

Premium Comfort, Made Affordable.

ECOMASTER | AI Humidity Control | CoolFlash | HeatFlash | Silent Mode | Prime Guard



AI ECOMASTER

Conventional Eco Mode

Imprecise control resulting in temperature fluctuation, wasting energy

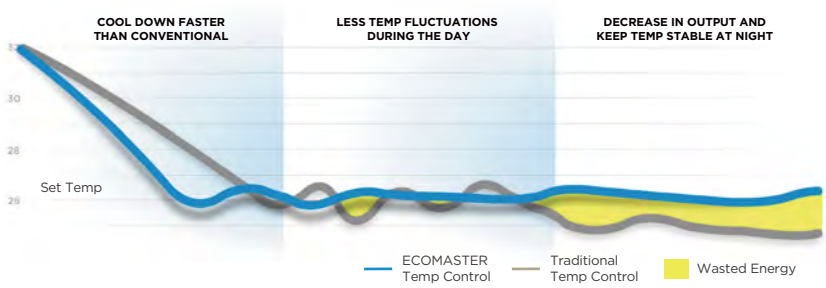
1. Single input of indoor temperature
2. Reactive approach without prediction

VS

AI ECOMASTER

Faster processing and more precise control providing comfort and saving energy

1. Multiple data inputs
2. Dynamically predict indoor heat load and environment changes



Perfectly Balance **Efficiency & Comfort**

ECOMASTER continues to function reliably even without an active Wi-Fi connection.

±0.3°C
Precise Temp Control

30%+
Extra Energy Saving

Verified by SGS

AI Humidity Control

Activated via RC or App, this function adjusts compressor frequency and fan speed to maintain indoor humidity within a comfortable range.

T1<20℃, the relative humidity range is **55%~70%**
20℃ ≤ T1<22℃, the relative humidity range is **50%~65%**
22℃ ≤ T1 ≤ 26℃, the relative humidity range is **45%~60%**
26℃<T120℃, the relative humidity range is **40%~55%**



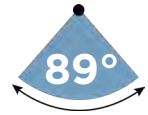
Flash Cooling & Heating





3D Airflow

The directional air-outlet moves automatically both horizontally and vertically, directing nice and cool airflow to fill in every corner of the room.



Horizontal



Silent Mode

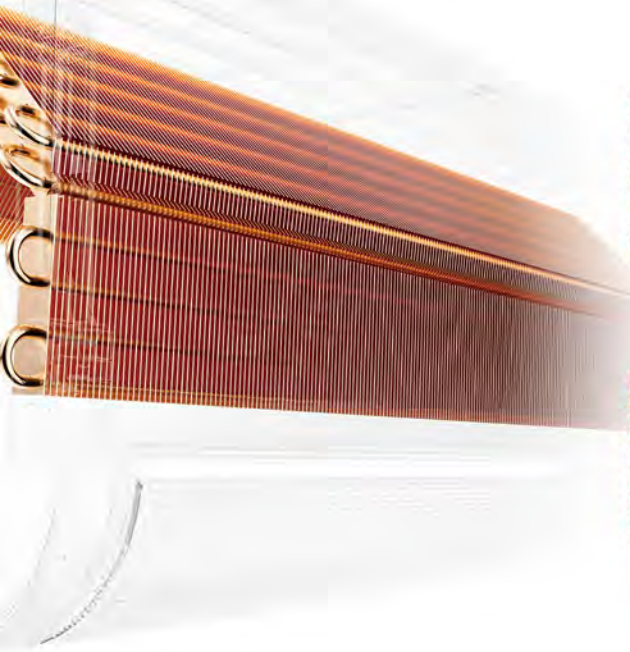
Inverter rotary compressor uses multi-field electromagnetic simulation to cut overall noise by 3dB vs previous generation.

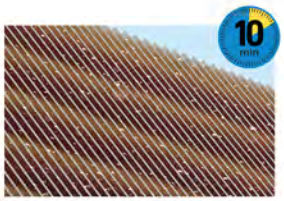


*Measured on 9k BTU unit. Actual noise levels may vary by model and operating conditions.

56°C-Clean function

56°C-Clean function enables cleaning and drying the indoor coil to avoid mold.





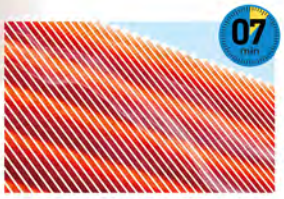
Cooling mode, Indoor fan turns to mid speed. **Water on evaporator**



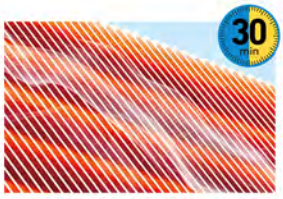
Cooling mode, Indoor fan stop (7m) and low speed (3m) **Frost on evaporator**



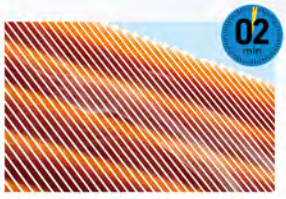
Turn off the unit and be **ready for heating mode**



Heating mode, Defrost and **T2 gets 57°C**



Heating mode, **T2 > 57°C steady for at least 30 mins**



Fan mode, Indoor fan turns to **mid** speed

Prime Guard



Anti-corrosion

\+



Electrical Design

\+



Quality Control

HYPER GRAPFINS™

Verified By Three Test Standards

20 to 50-year
-corrosion-resistance fin

Depended on the using industrial environment with salt contamination

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

0.02%
corrosion area

12.5X
corrosion resistance than blue coated fins

Stand Up to Neutral Salt Spray Test for

0.02%

* 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.



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Model			EF-07RD1	EF-09RD1H	EF-12RD1H	EF-18RD1	EF-24RD1
Indoor			EF-07RD1	EF-09RD1H	EF-12RD1H	EF-18RD1	EF-24RD1
Outdoor			MX0-07RD1	MX1-09RD1H	MX1-12RD1H	MX3-18RD1-EF	MX4-24RD1-EF
Power supply		Ph-V-Hz	220-240V, 1Ph , 50Hz	220-240V, 1Ph , 50Hz	220-240V, 1Ph , 50Hz	220-240V, 1Ph , 50Hz	220-240V, 1Ph , 50Hz
Rated Cooling	Capacity	kW	2.10 (0.88 to 2.46)	2.6 (1.08 to 3.20)	3.5 (1.4 to 4.01)	5.2 (1.8 to 6.15)	7.0 (2.0 to 8.2)
Cooling Power input		kW	0.62 (0.10 to 0.82)	0.75 (0.07 to 1.26)	1.2 (0.12 to 1.35)	1.68 (0.14 to 2.10)	2.60 (0.42 to 3.90)
Cooling Current		A	3.00 (0.40 to 3.70)	5.20 (0.65 to 5.60)	5.10 (0.50 to 6.10)	7.1 (0.6 to 9.3)	11.5 (1.8 to 19.0)
Rated Heating	Capacity	kW	2.40 (0.73 to 2.70)	2.93 (0.76 to 3.60)	3.8 (1.07 to 4.30)	5.40 (1.30 to 6.30)	7.33 (1.60 to 8.79)
Heating Power input		kW	0.65 (0.12 to 0.78)	0.73 (0.12 to 1.16)	1.04 (0.11 to 1.25)	1.38 (0.22 to 1.70)	2.15 (0.30 to 2.50)
Heating Current		A	3.20 (0.50 to 3.50)	3.30 (0.95 to 5.20)	4.60 (0.50 to 5.50)	6.1 (0.9 to 7.6)	11.0 (1.3 to 11.1)
Seasonal Cooling	Pdesignc	kW	2.1	2.6	3.5	5.2	7.0
	SEER	W/W	7.1	7.5	7.5	7.4	6.5
	Energy Efficiency Class		A++	A++	A++	A++	A++
Heating (Warmer)	Pdesignh	kW	2.1	2.5	3	4.6	5.6
	SCOP	W/W	5.2	5.2	5.3	5.1	5.1
	Energy Efficiency Class		A+++	A+++	A+++	A+++	A+++
	Tbiv	°C	2	2	2	2	2
Tol		°C	-20	-20	-20	-20	-20
Moisture Removal		L/h	0.6	1.1	1.2	2.0	2.9
Max. input consumption		W	2,030	2,200	2,200	2800	3900
Max. current		A	9.0	10.0	10.0	13	19
Indoor air flow (Hi/Mi/Lo/Si)		m^3/h	490/360/300/140	510/360/285/150	600/450/370/220	800/600/470/340	1050/750/600/400
Indoor noise level (Hi/Mi/Lo/Si)		dB (A)	37.5/32/23/18	38.5/34.5/24.5/20.5	38/32/25/20	43.0/35.5/33.5/20.0	45.0/39.5/36.0/20.0
Indoor sound power level		dB (A)	56	57	58	58	59
Indoor unit	Dimension (W x D x H)	mm	723 x 199 x 286	723 x 199 x 286	813 x 201 x 289	975 x 218 x 308	1055 x 231 x 330
	Packing (W x D x H)	mm	780 x 270 x 365	780 x 270 x 365	870 x 270 x 365	1035 x 295 x 385	1130 x 405 x 310
	Net/Gross weight	Kg	6.9/9.1	7.5/9.6	8/10.3	10.3/13.3	12.4/15.9
Outdoor air flow		m^3/h	1300	1750	1750	2100	3500
Outdoor sound pressure level		dB (A)	51.5	54.0	56.0	57.5	60.0
Outdoor sound power level		dB (A)	61	62	65	65	68
Outdoor unit	Dimension (W x D x H)	mm	668 x 252 x 469	720 x 270 x 495	720 x 270 x 495	805 x 330 x 554	890 x 342 x 673
	Packing (W x D x H)	mm	765 x 270 x 525	835 x 300 x 540	835 x 300 x 540	915 x 370 x 615	995 x 398 x 740
	Net/Gross weight	Kg	17.8/19.5	20.4/22.3	21.1/23	29.8/32.3	38.3/41.5
Refrigerant	Type		R32	R32	R32	R32	R32
	GWP		675	675	675	675	675
	Charged quantity	Kg	0.400	0.460	0.58	0.80	0.95
Design pressure		MPa	4.3 / 1.7	4.3 / 1.7	4.30 / 1.70	4.3 / 1.7	4.3 / 1.7
Refrigerant piping	Liquid side/ Gas side	mm (inches)	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 9.52 (3/8")	6.35 (1/4") / 12.7 (1/2")	6.35 (1/4") / 12.7 (1/2")
	Max. refrigerant pipe length	m	25	25	25	30	50
	Max. difference in level	m	10	10	10	20	25
Room temperature	Indoor (cooling/ heating)	°C	16 to 32 / 0 to 30	16 to 32 / 0 to 30	16 to 32 / 0 to 30	16 to 32 / 0 to 30	16 to 32 / 0 to 30
	Outdoor (cooling/ heating)	°C	-15 to 50 / -20 to 24	-15 to 50 / -20 to 24	-15 to 50 / -20 to 24	-15 to 50 / -20 to 24	-15 to 50 / -20 to 24

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make yourself at home

https://www.midea-group.com