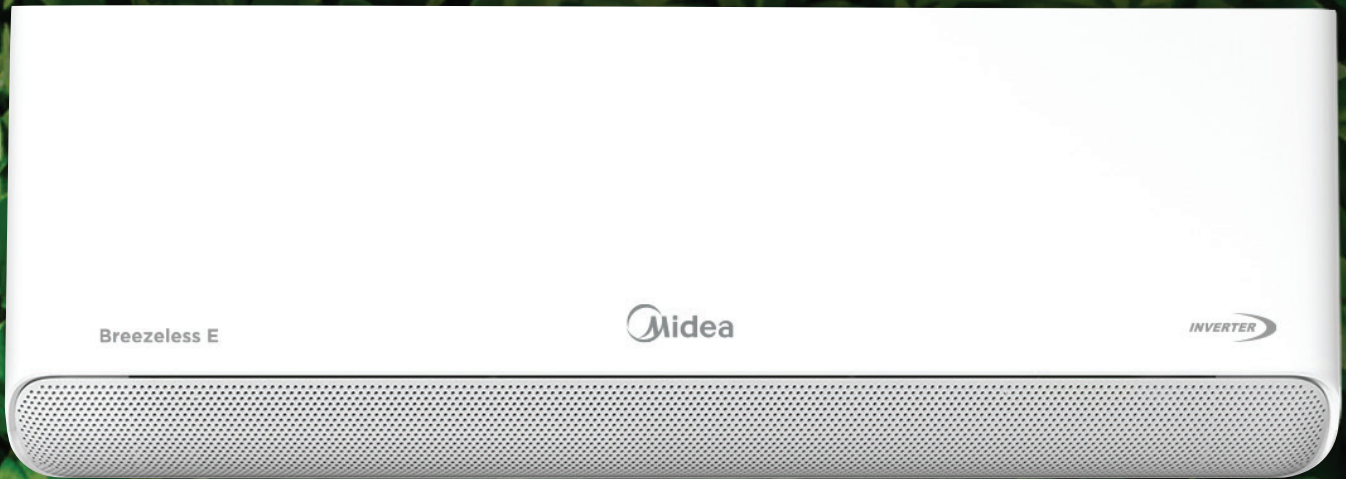


**KETTANEH**  
LET'S PARTNER FOR LIFE



# BREEZELESS E

REFINE COMFORT, REDEFINE SAVING



# BREEZELESS E

## REALIZE ECO COMFORT BY INTELLIGENT LEARNING TECH

Equipped with the latest intelligent learning algorithm, Midea Breezeless E could proactively calculate various possibilities to achieve better air conditioning experience and operate with extra energy saving rate. It provides thorough comfortable experience through Breezeless cooling, heating, air magic+ sterilization, Over-The-Air Technology (OTA).

### Intelligent Learning Tech for Extra Energy Saving

The latest intelligent algorithm could proactively detect changing factors in surroundings every 30 seconds and adjust temperature with extra energy saving rate up to 20%.

### Instant Breezeless Cooling Comfort

5013 Mini-holes with ourglass structure softens the air delicately. Cool down 6.3 °C within 10 minutes\*.

\*Based on lab data in specific conditions.

### Instant Heating as a Heatpump

Instantly warms you under cool weather as low as -20 °C. Heats up 10.4 °C within 10 minutes\*.

\*Tested under the outdoor temperature of 2 °C

### Air Magic+ Sterilizer

Negative ions inhibit the activity and kill bacterias including escherichia coli, staphylococcus aureus and H1N1.

### Over-The-Air Technology

Constantly update product functional performance and provide preventive maintenance.

# Highlights

## Energy Saving Report



The highly precise power detection technology can trace your energy consumption footprints, identify high energy consumption causes and propose customized energy-saving tips via MSmart Home App.

## Intelligent Learning Algorithm For Extra Energy Saving



Midea Breezeless E could intelligently predict and perform the most energy-efficient air conditioning operation program with extra energy saving rate up to 20% for Eco Comfort.

## Smart Sleep Curve



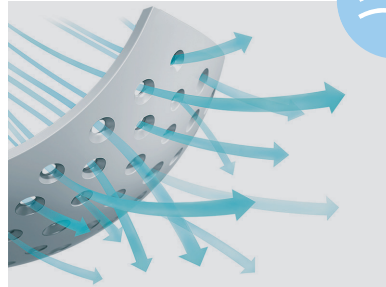
Midea Breezeless E can adjust temperature automatically during your sleep according to your advanced setting in MSmart Home App, to maintain a comfortable bedtime climate.

## Cool Flash Plus



Midea Cool Flash Plus technology can drive your whole room to the instant cool. With large air volume and long airflow, the temperature of the whole room can be reduced by 6.3 °C in 10min\*.

## Breezeless Technology



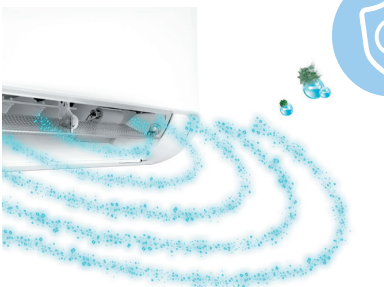
Twinflap™ structure with 5013 mini-holes can transform the strong airflow into thousands of tiny strings of air that gives you softest touch of cooling.

## Heat Flash



With fast and strong heating airflow, the Heat Flash technology can warm up your whole room in a short time. The room temperature can rise by 10.4°C within 10 minutes.

## Air Magic+



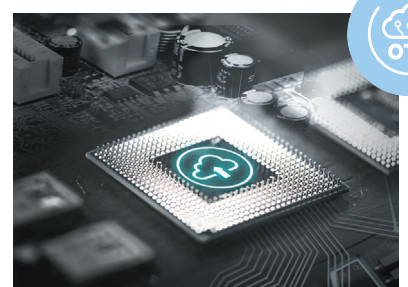
Negative ions inhibit the activity and kill bacterias including escherichia coli, staphylococcus aureus and H1N1.

## Hyper Graphins



Hyper Graphins protect against corrosion and feature higher vertical thermal diffusivity (VTD), heating 31% faster than golden coating.

## Over-the-air Technology



OTA technology enables wireless software updates, allowing continuous upgrades, performance optimization, and preventive maintenance.

Model			MSCB1BU-12HRFN8-QRD6GW	MSCB1CU-18HRFN8-QRD1GW	MSCB1DU-24HRFN8-QRD1GW
Power supply		V-Ph-Hz	220-240V,1Ph_NIA_50Hz	220_240V_1Ph,FREQUENCY_50HZ	220_240V_1Ph,FREQUENCY_50HZ
Cooling (Standard conditions)	Capacity	Btu/h	12000 (4709~14672)	18000(6600~21400)	24000(4700~28300)
	Input	W	1100(120~1650)	1600(150~2250)	2480(300~3260)
	Current	A	4,30(0,80~6,00)	7(0,7~9,8)	10,8(1,3~14,0)
	EER	W/W	3,25	3,30	2,84
Heating (Standard conditions)	Capacity	Btu/h	13000(3680~15000)	19000(4400~23900)	25000(5500~30900)
	Input	W	1020(100~1400)	1500(220~2350)	2040(340~3000)
	Current	A	3,81(1,08~4,40)	6,5(0,95~10,2)	8,9(1,4~13,0)
	COP	W/W	3,71	3,71	3,59
Seasonal Cooling	Pdesignc	kW	3,5	5,3	7,0
	SEER	W/W	8,1	7,6	6,5
	Energy Efficiency Class		A+++	A++	A++
Heating(Warmer )	Pdesignh	kW	2,9	4,5	5,1
	SCOP	W/W	5,7	5,1	5,1
	Energy Efficiency Class		A+++	A+++	A+++
	Tbiv	°C	2	2	2
Tol		°C	-15	-15	-15
Rated Power Input		W	2200	2950	4140
Rated Current		A	10,0	13	18,0
Compressor	Model		KSN103D42UEZ31	KSN140D21UFZ	KTM240D46UKT2
	Type		ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC
	Capacity	W	3,220	4385	4780/7600
	Input	W	813	1140	805/2045
	Rated current(RLA)	A	4,9	7,50	4,15/9,30
	Refrigerant oil/oil charge	ml	POE VG74 280	VG74 440	VG74 620
Indoor fan motor	Model		ZKFP-20-8-6-7	ZKFP-30-8-297L	ZKFP-58-8-25L
	Input	W	50	36	58
	Speed(Hi/Mi/Lo)	r/min	1020/870/800	1000/850/650	1050/900/830
Indoor coil	a.Number of rows		2	2	2
	b.Tube pitch(a)x row pitch(b)	mm	19.5x11.6	21x13.37	21x13.37
	c.Fin spacing	mm	1,3	1,3	1,3
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	580x195x23.2+580x117x23.2	720x231x26.74+720x147x26.74	780x252x26.74+780x126x26.74
	g.Number of circuits		4	3	4
Indoor air flow (Hi/Mi/Lo)	m3/h	680/520/420/380/0	835/620/510	1170/950/810	
Indoor noise level (Hi/Mi/Lo/Si)	dB(A)	44/38/32/22/19	41/36.5/32.5/20.5	45,0/40,5/30,5/24,0	
Indoor sound power level	dB(A)	55,0	53	65,0	
Indoor unit	Dimension(W*D*H)	mm	812x199x299	968x225x320	1030x238x338
	Packing (W*D*H)	mm	870x277x385	1027x307x412	1125x430x345
	Net/Gross weight	kg	9,3/12,2	12,3/16,2	14,0/18,6
Outdoor fan motor	Model		ZKFN-25-10-6L	ZKFN-34-10-1L	ZKFN-80-10-1L
	Input	W	75,5	71,5	108,3
	Speed	r/min	780/700/600	780/650	830/550
Outdoor coil	a.Number of rows		1,0	2	1,6
	b.Tube pitch(a)x row pitch(b)	mm	18x17,3	21x22	21x22
	c.Fin spacing	mm	1,3	1,3	1,3
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	745x504x17,3	860*504*44	900*609*22+540*609*22
	g.Number of circuits		3	4	5
Outdoor air flow	m3/h	2,200	2100	3500	
Outdoor sound pressure level	dB(A)	62,0	57	59,5	
Outdoor sound power level	dB(A)	56,0	65	68,0	
Outdoor unit	Dimension(W*D*H)	mm	765x303x555	805x330x554	890x342x673
	Packing (W*D*H)	mm	887x337x610	915x370x615	995x398x740
	Net/Gross weight	kg	23,1/25,4	32,3/35,1	41/44,1
Refrigerant	Type		R32	R32	R32
	GWP		675	675	675
	Charged quantity	kg	0,580	1,1	1,45
Design pressure	MPa		4,3/1,7	4,3/1,7	4,3/1,7
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in) / 9.52mm(3/8in)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)
	Max. refrigerant pipe length	m	25	30	50
	Max. difference in level	m	10	20	25
Connection wiring			1.5x5//	1.5x5//	2.5x5//
Plug type			no-plug	no-plug	no-plug
Thermostat type			Remote Control	Remote Control	Remote Control
Room temperature	Indoor(cooling/ heating)	°C	16~32 / 0~30	16~32/0~30	16~32/0~30
	Outdoor(cooling/heating)	°C	-15~50/-25~24	-15~50/-20~24	-15~50/-20~24
Application area (Cooling Standard)	m2	16~23	24~35	32~47	
Qty per 20' /40' /40'HQ			108/225/254	81/174/196	63/137/150