

# Powrmatic Air Conditioning Product Brochure 2017

In Partnership With Midea Air Conditioning & Coolair Evaporative Cooling



**powrmatic**



**coolair**



# The Powrmatic & Midea Story

## Delivered In Partnership ▶

Powrmatic have been working in partnership with Midea for over 8 years delivering air conditioning solutions for commercial and residential applications, which take advantage of the latest innovations for improved efficiency and performance, including GMCC DC inverter technologies.



## Midea Expertise ▶

Powrmatic have been sharing the technical expertise from Midea to deliver energy-efficient, cost-effective air conditioning solutions for a wide range of applications. A key benefit of this relationship for Powrmatic customers is that they are able to take advantage of Midea's innovative, leading-edge product range combined with Powrmatic's local design expertise and support network.



## Inverter Technology ▶

Supported by the Midea & Toshiba Carrier DC Inverter Technology Development lab, Midea grasps the core technology of DC Inverter air conditioners. In 2008, Midea pioneered the popularisation of DC inverter air conditioners. In November 2011, Midea launched the 3D DC inverter air conditioners. In 2012 Midea was ranked as the No.1 amongst China's DC Inverter AC brands.



## Midea Manufacturing Capacity ▶

Midea own 6 domestic and 5 overseas manufacturing bases and have annual production capacity of over 33 million units. Today, Midea is a brand leader in China.

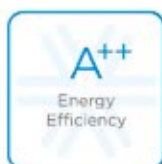
The company continues to globalize its operations with production bases in Vietnam, Belarus, Egypt, Brazil, Argentina, and India, to be followed by additional plants. Midea is also expanding its distribution network in several countries to offer better services to local consumers in those locations.

Midea believes in creating value through responding rapidly to market demands, cost-efficient operations and consumer satisfaction. As a result, Midea wields a comprehensive product portfolio and vast production capacity to meet these demands. Midea's integrated research and manufacturing process helps to enrich lifestyles worldwide through a distinct range of innovative, yet affordable products.





## COOL COMFORT



# MIDEA SMART KIT

optional extra



Mission's WiFi and Smart Kits\* are designed for even more comfortable and easy operation.

- Online control
- Sleeping curve setting
- Temp zone setting
- Weekly timing

# Mission Cool & Comfort



Select Eco Mode for a comfortable sleep with an intelligent 8 hour cycle that uses less energy.

*ECO mode is available via the cooling mode only.*

## ECO MODE



### The comparison between ECO and normal mode

(based on 8 hours period, inverter model)



\*Test Condition: Indoor/outdoor temperature 30°C, setting temperature 24°C.



## SELF-DIAGNOSIS

If unusual operations or a part failure occur, the unit will shut off automatically to protect the system. It will also indicate protection or error codes on the controller which allows engineers to quickly sort issues on-site or remotely.



## EASY TOUCH



### MEET THE ARCTIC FOX REMOTE

Mission's sleek remote looks great and feels good. It's intuitive easy to use design gives you complete control at your fingertips.



# Mission Cool & Comfort



## ELEGANCE

Remote



## DIAMOND CABINET



Featuring a **Screw-Free** front view cabinet design.

Rugged, durable and low maintenance.



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## MODERN

Cool, modern design with hidden LED display.



Stylish smooth curve design.

## OUTSTANDING FEATURES

Each of Mission's designer features is there to make operation simple and efficient. They have been designed after extensive research and feedback from customers all over the world.



### Turbo

Reach the set temperature fast by holding the ⊕ button down.



### Silent

Hold the ⊖ button down to select silent mode and quiet operation.



### 1W Standby

Provide savings of up to 80% more energy in stand-by mode.



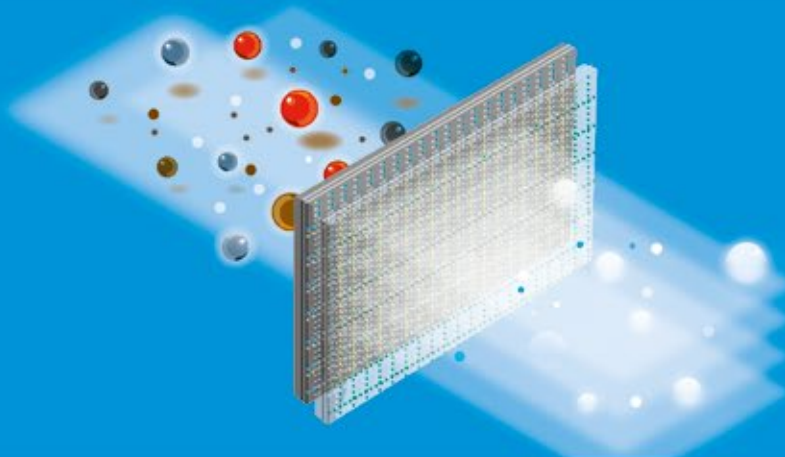
### Self Detection

Automatic shut down if refrigerant leak is detected.



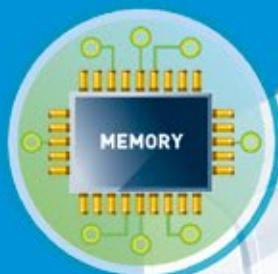
### Dual Filter

HD Filter prevents dust and silver ion filter sterilizes bacterial effectively.



### Louver Position Memory

Automatically adjusts to the position of previous operation.



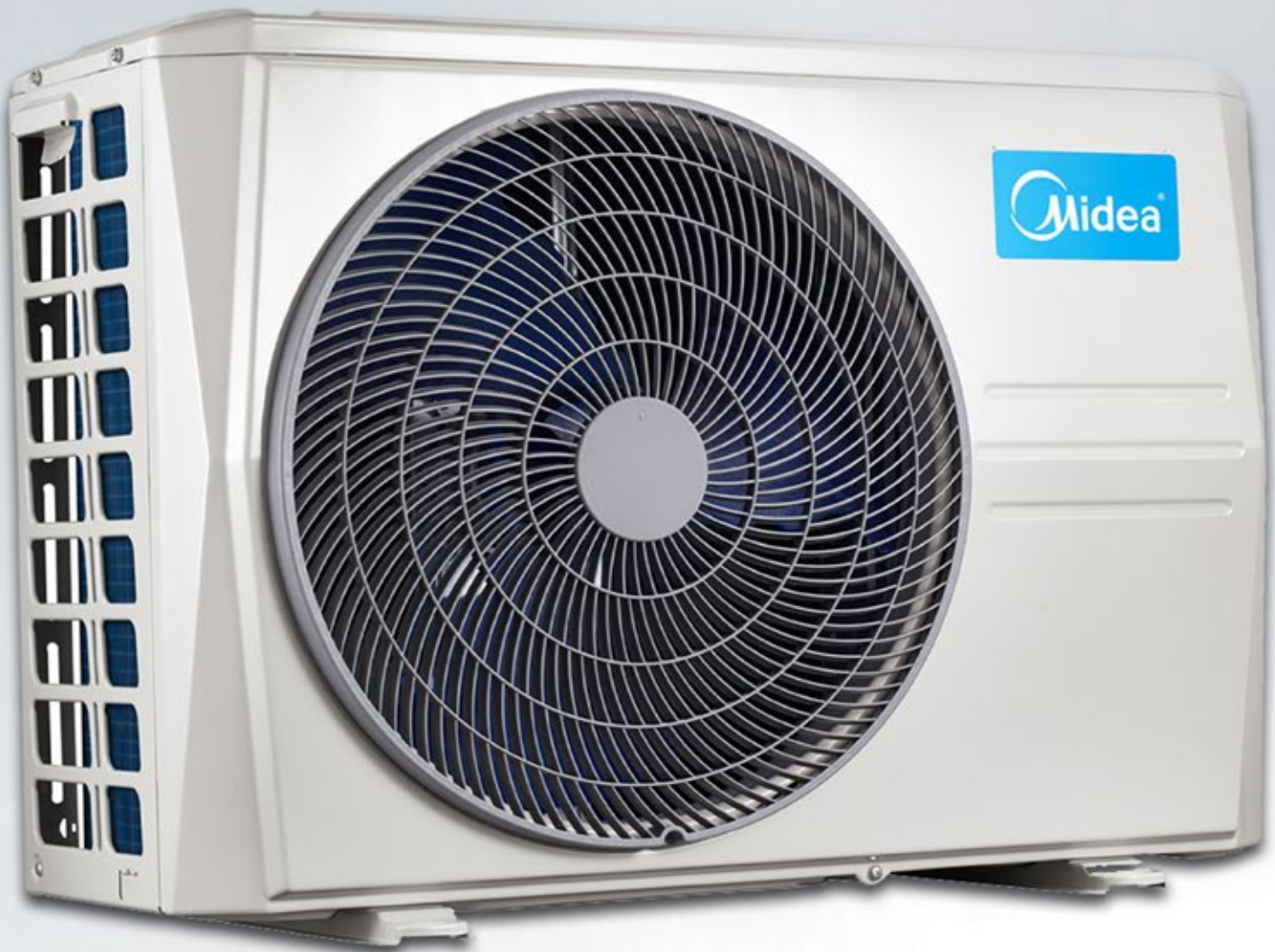
## Mission Indoor Unit Technical Specification

Model Number	Outdoor Unit		MOB01-09HFN1-QRD0GW	MOB01-12HFN1-QRD0GW	MOB01-18HFN1-QRD0GW	MOB01-24HFN1-QRD0GW
	Indoor Unit		MSMBBU-09HRFN1-QRDOGW	MSMBBU-12HRFN1-QRDOGW	MSMBBU-18HRFN1-QRDOGW	MSMBBU-24HRFN1-QRDOGW
Electrical	V -,Hz,Ph		220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1
	Inverter Type		3D DC	3D DC	3D DC	3D DC
Capacity	Cooling Capacity	Btu/h Rated ( min-max)	9000 (4000-11300)	12000 (4600-15400)	18000 (6500-21100)	24000 (8800-27600)
		kW Rated	2.9	3.8	5.6	7.6
	Heating Capacity	Btu/h Rated (min-max)	10000 (3100-12800)	13000 (3700-16800)	19000 (4900-23200)	26000 (7100-31700)
		kW Rated	2.6	2.6	4.4	5.7
Performance	SEER	W/W	6.8	7.2	6.8	6.2
	Energy Rate	Cooling	A ++	A ++	A ++	A ++
	SCOP Average/Warmer	W/W	4.2 / 5.1	4.2 / 5.3	4.2 / 5.4	4.0 / 5.1
	Energy Rate	Heating (Average / Warmer)	A + / A+++	A + / A+++	A + / A+++	A + / A+++
	Tol	°C	-15	-15	-15	-15
	Indoor Air Flow	Hi / Me / Lo	500 / 420 / 310	419 / 458 / 266	725 / 530 / 460	1055 / 850 / 670
	Indoor Sound Power Level	dB(A)	53	51	55	60
	Indoor Sound Pressure Level	dB(A) Hi / Med / Lo / SL	37 / 31 / 23 / 22	38 / 35 / 28 / 22	42 / 37 / 33 / 24	46 / 40 / 30 / 28
Dimension, Weight & Piping Sizes	Net Dimension (mm)	Indoor (W x D x H)	730 x 198 x 293	810 x 200 x 300	980 x 225 x 325	1090 x 235 x 338
		Outdoor (W x D x H)	770 x 300 x 555	800 x 333 x 554	800 x 333 x 554	845 x 363 x 702
	Packing Dimensions (mm)	Indoor (W x D x H)	810 x 285 x 375	890 x 285 x 385	1055 x 305 x 405	1165 / 420 / 315
		Outdoor (W x D x H)	900 x 345 x 585	920 x 390 x 615	920 x 390 x 615	965 x 395 x 765
	Weight (Kg)	Indoor (Net / Gross)	7.4 / 9.8	8.2 / 11.1	10.5 / 13.5	12.9 / 16.5
		Outdoor (Net / Gross)	27.1 / 29.4	29.7 / 32.4	37.2 / 40	48.5 / 51.7
	Piping Size	Liquid Ø mm (inch)	Ø6.35/ (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø9.52 (3/8")
		Gas Ø mm (inch)	Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7(1/2")	Ø15.9(5/8)
Applicable Area	m² (min / max)		12 / 18	16 - 23	24 - 35	32 - 47



Mission  
Cool & Comfort

mission  
MULTI SPLITS





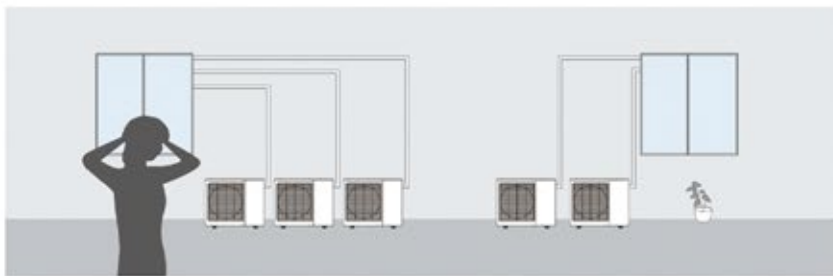
# OUTSTANDING FEATURES

Free Match Inverter



## Space-saving Installation ▶

Up to five indoor units can be connected to a single outdoor unit, reducing the number of outdoor units required. All indoor units can be individually controlled and do not need to be installed even at the same time.



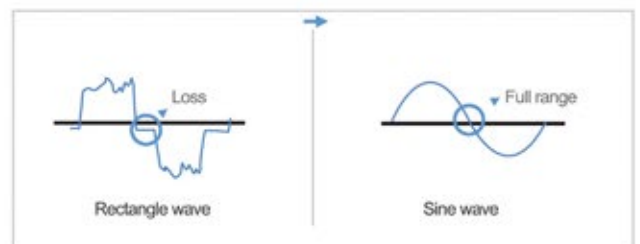
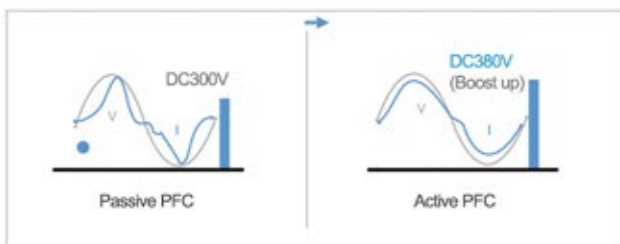
5 outdoor units



1 outdoor unit

## Energy Saving ▶

Cutting-edge DC inverter of sine wave control and active PFC technology make quieter and more economical operation.



Outdoor Mission Multi Split Condensers (09, 12 & 18 Indoor Models Only) See page 7 for indoor unit technical information

Specification		M40B - 36HFN1-Q	M50E - 42HFN1-Q
Electrical	V~,Hz,Ph	220-240,50,1	220-240,50,1
Outdoor Air Flow Volume	m³/h	5500	5500
Outdoor Sound Power Noise Level	dB(A)	68	68
Outdoor Sound Pressure Noise Level	dB(A)	63.5	62
Net Dimensions	W x D x H	946 x 410 x 810	946 x 410 x 810
Packing Dimensions	W x D x H	1090 x 500 x 875	1090 x 500 x 875
Net / Gross Weight	kg	70 / 75	76 / 81
Piping Size	mm / inch Liquid	Ø6.35 (1/4")	Ø6.35 (1/4")
	mm / inch Gas	Ø9.52 (3/8")	Ø9.52 (3/8")
Max Pipe Length For One Indoor Unit	m	15	15
Max Height Difference Between Indoor Units	m	10	10

Condenser Combinations

M40B - 36HFN1-Q		
2	3	4
9+9	9+9+9	9+9+9+9
9+12	9+9+12	9+9+9+12
9+18	9+9+18	9+9+9+18
12+12	9+12+12	9+9+12+12
12+18	9+12+18	9+9+12+18
18+18	9+18+18	9+12+12+12
	12+12+12	9+12+12+18
	12+12+18	12+12+12+12

M50E - 42HFN1-Q			
2	3	4	5
9+9	9+9+9	9+9+9+9	9+9+9+9+9
9+12	9+9+12	9+9+9+12	9+9+9+9+12
9+18	9+9+18	9+9+9+18	9+9+9+9+18
9+24	9+9+24	9+9+9+24	9+9+9+12+12
12+12	9+12+12	9+9+12+12	9+9+9+12+18
12+18	9+12+18	9+9+12+18	9+9+12+12+12
12+24	9+12+24	9+9+12+24	9+12+12+12+12
18+18	9+18+18	9+9+18+18	
18+24	12+12+12	9+12+12+12	
24+24	12+12+18	9+12+12+18	
	12+12+24	9+12+12+24	
	12+18+18	9+12+18+18	
	12+18+24	12+12+12+12	
	18+18+18	12+12+12+18	





# Luna Split



## Standard Features



Refrigerant Leakage Detect



Emergency Using Function



Louver Position Memory



Low Ambient Cooling



TW Standby



Intelligent Anti-cold Air Function



12 Indoor Fan Speeds



5 Outdoor Fan Speeds



Sleep Mode



Turbo Mode



Mono & Multi Compatible



Cold Catalyst Filter

## Optional Features



Follow Me



Self-Cleaning



8°C Heating



Super Ionizer



Plasma



Golden Fin

# OUTSTANDING FEATURES

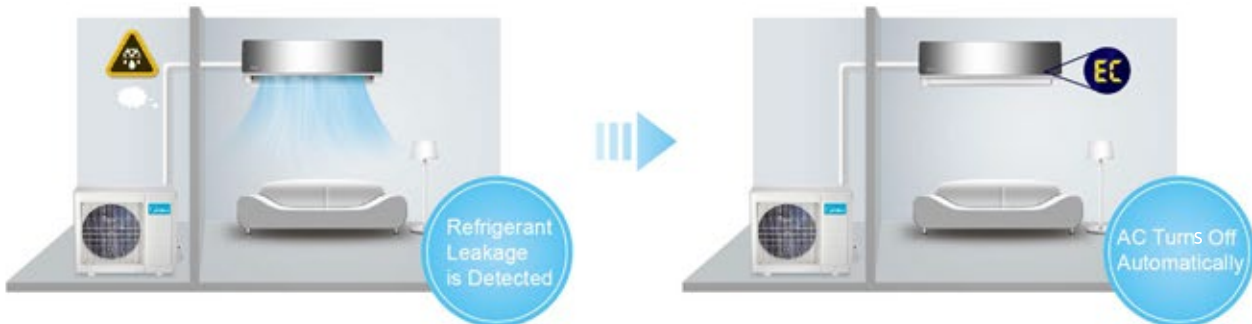
Luna Split



## Refrigerant Leakage Detect ▶

When refrigerant leakage is detected indoor, unit will show error code "EC" and stop automatically. This function can protect the compressor from being damaged by high temperature due to refrigerant leakage.

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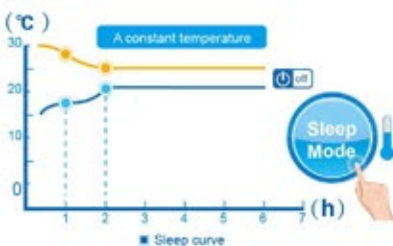


(OPTIONAL EXTRA)

(OPTIONAL EXTRA)

## Sleep Mode ▶

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first two hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



## Follow Me ▶

Temperature sensor built in the remote controller will sense its surrounding temperature. So the unit can adjust room temperature more accurately and bring you more comfort.



## Super Ionizer ▶

Release positive and negative ions, eliminate odor, dust, smoke and pollen particles to give you fresh and healthy air.



## Luna Split Technical Specification - Energy Related Product

Model Number		Indoor Unit	LHWMS09-E	LHWMS12-E	LHWMS18-E	LHWMS24-E
		Outdoor Unit	MOB-09HFN1-QRC8W	MOB-12HFN1-QRC8W	MOC-18HFN1-QRC8W	MOF-24HFN1-QRC8W
Electrical	Power Supply	V -,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1	220 240,50,1
	Inverter Type		2D DC	2D DC	3D DC	2D DC
Capacity	Cooling	Btu/h Rated( min-max)	9500 (4380-11590)	11200 (4100-13660)	17400 (6540--20010)	21800 (7410-23980)
		kW Rated( min-max)	2.8 (1.3 - 3.4)	3.3 (1.2 - 4.0)	5.1 (1.9 - 6.9)	6.4 (2.2 - 7.0)
	Heating	Btu/h Rated( min-max)	9000 (2740--11160)	11000 (3450-13640)	18000 (4730-21240)	23000 (5590 - 27140)
		kW Rated( min-max)	2.6 (0.8 - 3.4)	3.2 (1.0 - 4.0)	5.3 (1.4 - 6.2)	6.7 (2.8-8.2)
Performance	SEER (Average)	W/W	5.5	5.5	6.5	5.9
	Energy Rate	Cooling	A	A	A++	A+
	SCOP (Average)	W/W	3.8	3.8	3.8	3.8
	Energy Rate	Heating	A	A	A	A
	Tol	°C	-15	-15	-15	-15
	Air Flow Volume	(m³/h) Hi / Me / Lo	400 / 330 / 270	500 / 430 / 380	850 / 780 / 630	1100 / 1050 / 900
	Indoor Sound Power Level	dB(A Hi	55	54	56	63
	Indoor Sound Pressure Level	dB(A Hi / Me / Lo	37 / 31 / 24	40 / 35 / 29	41 / 35 / 28	50 / 45 / 40
Dimension, Weight & Piping Sizes	Net Dimensions (mm)	Indoor (W x D X H)	710 x 190 x 250	790 x 198 x 265	920 x 223 x 292	998 x 240 x 322
		Outdoor (W x D X H)	780 x 250 x 540	780 x 250 x 540	760 x 285 x 590	845 x 320 x 700
	Packing Dimensions (mm)	Indoor (W x D X H)	770 x 265 x 318	875 x 265 x 335	1015 x 295 x 368	1080 x 320 x 400
		Outdoor (W x D X H)	910 x 335 x 585	910 x 335 x 585	887 x 355 x 645	965 x 395 x 755
	Weight (kg)	Indoor (Net / Gross)	6.5 / 8.5	8 / 10	11 / 13.5	12.5 / 16
		Outdoor (Net / Gross)	29.5 / 31.5	29.5 / 31.5	35 / 37	48 / 50
	Piping Size	Liquid Ø mm (inch)	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø6.35 (1/4")	Ø9.52 (3/8")
Gas Ø mm (inch)		Ø9.52 (3/8")	Ø9.52 (3/8")	Ø12.7 (1/2")	Ø15.9 (5/8")	
Applicable Area (m²)	m²	13-22	16-27	25-42	32-53	



# Luna Split

# Super Slim Round Flow Cassette



## Standard Features

- |                        |                           |                               |                           |                             |                         |                     |
|------------------------|---------------------------|-------------------------------|---------------------------|-----------------------------|-------------------------|---------------------|
|                        |                           |                               |                           |                             |                         |                     |
| 360°<br>Air Flow Panel | Anti-cold Air<br>Function | Refrigerant<br>Leakage Detect | I-Remote                  | Emergency<br>Using Function | Reserved<br>On/Off Port | Error<br>Alarm Port |
|                        |                           |                               |                           |                             |                         |                     |
| Turbo Mode             | Built-in<br>Drain Pump    | Auto Restart<br>Function      | Louver Position<br>Memory | Low Ambient<br>Cooling      | Twin<br>Combination     |                     |

(OPTIONAL)

## Optional Features

- |                               |           |                     |
|-------------------------------|-----------|---------------------|
|                               |           |                     |
| Follow Me                     | Ionizer   | Wired<br>Controller |
|                               |           |                     |
| Central Control<br>Management | Fresh Air | Healthy Filters     |

## Super Slim Design



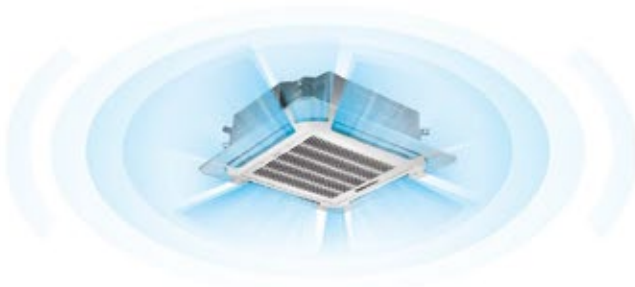
# OUTSTANDING FEATURES

Super Slim Round Flow Cassette



## 360° Air Flow Panel ▶

With the 360° air flow panel, the air can be distributed to every corner of the room.



360° Air Flow Panel

## Reserved ON-OFF and Alarm Ports ▶

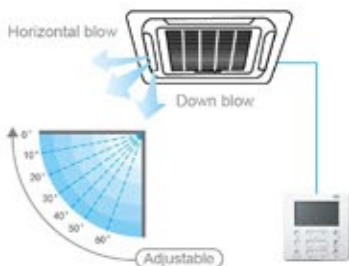
**ON-OFF Switch:** With the reserved ports, a remote switch can be easily connected to a remote control.

**Alarm Port:** The built-in PCB can output alarm signal, which makes setting up an external alarm light or vibration gauge possible.



## Independent Vane Control ▶

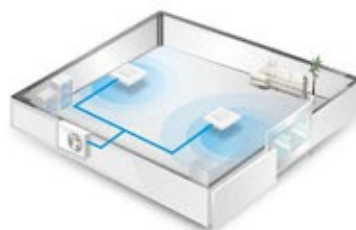
The direction of each vane can be set independently by using the wired controller.



## Twin Combination ▶

(CTCS24 & CTC30 Only)

The units can be installed as twin systems: one outdoor unit can be connected with two same indoor units. The indoor units can be combined in any of the different available ratings.



## Super Slim Round Flow Cassette Technical Specification

Model Number		Indoor Unit	SSRFC24	SSRFC30	SSRFC36	SSRFC48	SSRFC60
		Outdoor Unit	MOFU-24HDN1-QRD0	MOYU-30HDN1-QRD0	MOYU-36HDN1-QRD0	MOEU-48HDN1-QRD0	MOEU-55HFN1-RRD0
Electrical	Power Supply	V~,Hz,Ph	220 - 240, 50, 1	220 - 240, 50, 1	220 - 240, 50, 1	220 - 240, 50, 1	220 - 240, 50, 1
	Inverter Type		3D DC	3D DC	3D DC	3D DC	3D DC
Capacity	Cooling Capacity	Btu/h Rated(min-max)	24000 (4100 - 33800)	30000 (9550 - 37200)	36000 (9550 - 44300)	47000 (13600 - 55800)	55000 (16000 - 66000)
		kW Rated(min-max)	7.1 (1.2 - 9.9)	8.8 (2.8 - 10.9)	10.5 (2.8 - 13.0)	13.8 (4.2 - 18.5)	16.0 (4.7 - 19.3)
	Heating Capacity	Btu/h Rated(min-max)	24000 (4100 - 37200)	31000 (9550 - 37200)	38000 (9210 - 55200)	53000 (14300 63000)	62000 (17000 - 74500)
		kW Rated(min-max)	7.8(1.2 - 10.9)	8.8 (2.8 - 10.9)	11.7 (2.7 - 16.1)	15.5 (4.2 - 18.5)	18.2 (5.0 - 21.8)
Performance	SEER (average)	W/W	5.6	6.1	5.6	5.6	5.6
	Energy Rate	Cooling	A	A++	A++	A	A
	SCOP (average)	W/W	4.0	4.0	4.0	4.0	4.0
	Energy Rate	Heating	A+	A+	A+	A+	A
	Tol	°C	-15	-15	-15	-15	-15
	Air Flow Volume	m³/h Hi / Me / Lo	1450 / 1250 / 1100	1700 / 1460 / 1300	1900 / 1750 / 1460	1850 / 1600 / 1400	1900 / 1650 / 1450
	Indoor Sound Power Noise Level	dB(A) Hi	62	65	65	65	69
	Indoor Sound Pressure Noise Level	dB(A Hi / Me / Lo	46 / 42 / 39	53 / 48 / 44	56 / 52 / 48	53 / 49 / 45	52 / 49 / 46
Dimension, Weight & Piping Sizes	Net Dimension (mm)	Body (W x D x H)	840 x 840 x 245	840 x 840 x 245	840 x 840 x 245	840 x 840 x 287	840 X 840 X 287
		Panel (W x D x H)	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 X 950 X 55
	Packing Dimensions	Body (W x D x H)	900 x 900 x 265	900 x 900 x 265	900 x 900 x 265	900 x 900 x 292	900 X 900 X 292
		Panel (W x D x H)	1035 x 1035 x 90	1035 x 1035 x 90	1035 x 1035 x 90	1035 x 1035 x 90	1035 X 1035 X 90
	Weight (kg)	Body (Net / Gross)	24 / 28	26.5 / 30.5	26.5 / 30.5	28 / 32.1	31 / 34
		Panel (Net / Gross)	5/8	5/8	5/8	5/8	5/8
	Piping Size (mm)	Liquid Ø mm (inch)	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")
		Gas Ø mm (inch)	15.9 (5/8')	15.9 (5/8')	15.9 (5/8')	15.9 (5/8')	15.9 (5/8')
Applicable Area	m²	28-47	36-60	42-70	59-93	64-107	

Note: The noise level data reflects the level in anechoic chamber

All indoor units needs a single phase supply + all Outdoor units needs a separate supply according to Specs. All units would need a communications cable between indoor and outdoor 3-core 0.75mm to 1.0mm.

### The power supply requirements are as follows:

- SSRFC-24 Indoor requires Single phase supply of not more than 5 A - 220 V/50Hz
- SSRFC-30 Indoor requires Single phase supply of not more than 5 A - 220 V/50Hz
- SSRFC-36 Indoor requires single Phase supply of not more than 5 A - 220 V/50Hz
- SSRFC-48 Indoor requires single phase supply of not more than 5 A - 220 V/50Hz
- SSRFC-60 Indoor requires single phase supply of not more than 5 A - 220 V/50Hz

### The power supply requirements are as follows:

- MOU-24HRFN1 Outdoor Unit requires Single phase not more than 15 A - 220 V/50Hz
- MOU-30HRFN1 Outdoor Unit requires single phase not more than 20 A - 220 V/50 Hz
- MOU-36HRFN1 Outdoor unit requires single phase not more than 25 A - 220 V/50Hz
- MOU-48HRFN1 Outdoor Unit requires single phase not more than 30A - 220V/50Hz
- MOU-60HRFN1 Outdoor Unit requires 3 Phase Supply not more than 20A-380-415V/50Hz

## Condenser Options



24,000 Btu/h



30,000 / 36,000 Btu/h



48,000 / 60,000 Btu/h



# Midea Technical & Installation Guide

Model	Fitting	Cooling Capacity		Heating Capacity		Sound Power Level dB(A) Hi		Interconnecting Cable	Sensible Cooling	MCB/Phase	Mains power to	Built in Pump	Pipe size (") inches	Max. Pipe Run	Refrigerant Charge over 5 mtrs/ Mtr	Max. Height Diff.	System Install Time
		kW		Indoor	Outdoor	Indoor	Outdoor										
<b>MISSION SERIES ERP</b>																	
MISSION09-E	Wall Mounted	2.6		2.6		53	61	5 Core 1.5mm	1.8	10A/1ph	Outdoor	N/A	1/4 + 3/8	20	20g/Mtr	10m	1
MISSION12-E	Wall Mounted	3.5		2.6		51	62	5 Core 1.5mm	2.8	10A/1ph	Outdoor	N/A	1/4 + 3/8	20	20g/Mtr	10m	1
MISSION18-E	Wall Mounted	5.3		4.4		55	63	5 Core 1.5mm	4.1	10A/1ph	Outdoor	N/A	1/4 + 1/2	25	20g/Mtr	10m	1
MISSION24-E	Wall Mounted	7.0		5.7		60	63	5 Core 1.5mm	5.1	10A/1ph	Outdoor	N/A	3/8 + 5/8	25	40g/Mtr	10m	1
<b>LUNA HIGH WALL ERP</b>																	
LHWS09-E	Wall Mounted	2.8		2.6		55	63	5 Core 1.5mm	2.2	8A/1ph	Outdoor	N/A	1/4 + 3/8	20	20g/Mtr	8m	1
LHWS12-E	Wall Mounted	3.3		3.2		54	63	5 Core 1.5mm	2.6	10A/1ph	Outdoor	N/A	1/4 + 3/8	20	20g/Mtr	8m	1
LHWS18-E	Wall Mounted	5.1		5.3		56	65	5 Core 1.5mm	4.1	15A/1ph	Outdoor	N/A	1/4 + 1/2	25	20g/Mtr	10m	1
LHWS24-E	Wall Mounted	6.4		6.7		63	68	5 Core 1.5mm	5.1	20A/1ph	Outdoor	N/A	3/8 + 5/8	25	40g/Mtr	10m	1
<b>SUPER SLIM CASSETTE 4-Way 360 Round flow - ERP</b>																	
SSRFC24	Ceiling Cassette	7.1		7.8		62	N/A	3 core 1.0mm	5.7	20A/1ph	In and Out	Included	3/8+5/8	25	40g/Mtr	15m	2
SSRFC30	Ceiling Cassette	8.8		8.8		62	N/A	3 core 1.0mm	7.0	25A/1ph	In and Out	Included	3/8+5/8	30	40g/Mtr	15m	2
SSRFC36	Ceiling Cassette	10.5		11.7		64	N/A	3 core 1.0mm	8.4	25A/1ph	In and Out	Included	3/8+5/8	30	40g/Mtr	15m	2
SSRFC48	Ceiling Cassette	13.8		15.5		65	N/A	3 core 1.0mm	11.0	32A/1ph	In and Out	Included	3/8+5/8	50	40g/Mtr	15m	2
SSRFC60	Ceiling Cassette	16.0		18.2		65	N/A	3 core 1.0mm	12.8	20A/3ph	In and Out	Included	3/8+5/8	50	40g/Mtr	15m	2
<b>TWIN CASSETTES 4-Way 360 Round Flow - ERP</b>																	
TCS24	Ceiling Cassette	2 x 7		2 x 7.6		59	N/A	3 core 1.0mm	11.2 (2 units)	32A/1ph	In and Out	Included	3/8 +5/8	50m	40g/Mtr	15m	2
TCS30	Ceiling Cassette	2 x 9		2 x 8.8		62	N/A	3 core 1.0mm	14.4 (2 units)	20A/3ph	In and Out	Included	3/8 +5/8	50m	40g/Mtr	15m	2
<b>MISSION MULTI SPLITS ERP</b>																	
MISSION09-E	Wall Mounted	2.6		2.6		53	61	5 Core 1.5mm	1.8	10A/1ph	Outdoor	N/A	1/4 + 3/8	20	20g/Mtr	10m	1
MISSION12-E	Wall Mounted	3.5		2.6		51	62	5 Core 1.5mm	2.8	10A/1ph	Outdoor	N/A	1/4 + 3/8	20	20g/Mtr	10m	1
MISSION18-E	Wall Mounted	5.3		4.4		55	63	5 Core 1.5mm	4.1	10A/1ph	Outdoor	N/A	1/4 + 1/2	25	20g/Mtr	10m	1
M40B - 36HFN1-Q	External Condenser	10		11		N/A	68	5 Core 1.5mm	8.4	30A/1ph	Outdoor	N/A	1/4 + 3/8	15	N/A	10m	2
M50E - 42HFN1-Q	External Condenser	12		13		N/A	68	5 Core 1.5mm	10	32A/1ph	Outdoor	N/A	1/4 + 3/8	15	N/A	10m	2



# Powrmatic Vision Air Conditioning Range

Condenserless Air Conditioning Systems



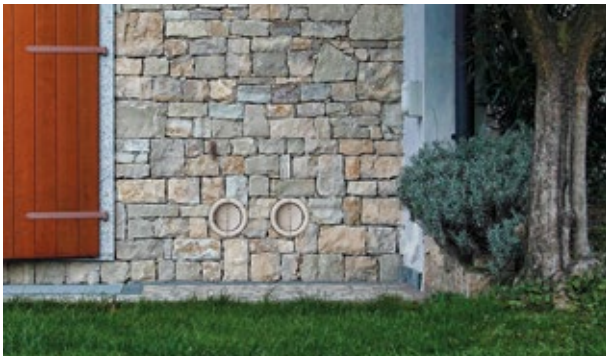
# OUTSTANDING FEATURES

Vision



## Condenser-less Air Conditioning ▶

The need for air conditioning today is present winter and summer. All too often this means installing unsightly condensing units on the exterior of buildings. The new Powrmatic Vision is a packaged solution which removes the need for an outdoor unit, and incorporates state of the art “monobloc” technology. The Vision also does not require a F-Gas certified engineer to install saving you as significant amount on installation costs.



## Easy Installation ▶

Installation is easy due to the standard core drill bit required to make the 162mm holes. The Vision can be installed on any external wall, either at a low or high position. All that is required for the installation (template, supporting bracket, outdoor grills, insulating wall pipes) is contained in the carton box ready to install. All that is required to be provided by the installer is the drilling machine and core bit.



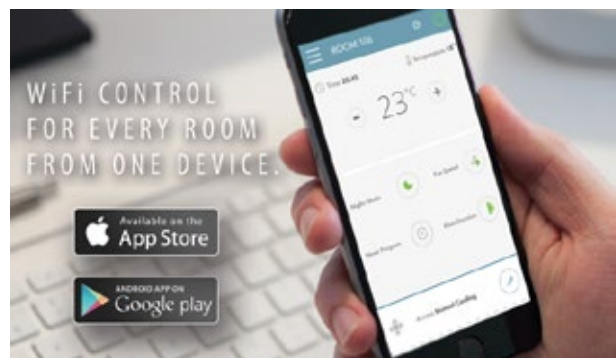
## Application Flexibility ▶

The Vision features clean lines in a contemporary, eye-catching style that will complement any décor with and no sight of an outdoor condenser it makes the unit ideal for hotel rooms, restaurants and many other hospitality applications. It also allows for air conditioning on listed buildings. The only connection it needs to the outside is two discreet holes through an outside wall. As a result, there is minimum impact on the building’s exterior and complies with many regulations.



## Wifi Control ▶

The easy to use app displays current temperature settings and allows the user to change temperature, fan speed, and air flow direction from anywhere at a touch of a button. In applications such as hotel buildings, the reception desk can activate, control, and deactivate each unit in every room depending on the occupancy. They can warm up or cool down the room before hotel guests arrive, and ensure the units are switched off when the room is unoccupied saving valuable energy consumption.



## Low Temperature Hot Water Model (LTHW) ▶

Sometimes you face the need to replace an existing radiator for winter heating with a complete system for summer and winter use. In such situation, “Vision LTHW” is the best answer:

The Vision LTHW can cool down temperature in summer, warm up in winter in heat pump mode or by using an existing boiler Low Temperature Hot Water System, and dehumidify all year round. In winter time, heating is economically provided by the heat pump functioning mode



## DC Inverter Model (DCINV) ▶

Energy consumption is very low thanks to adsorption values that, in part load, are lower than 300 W. At cooling capacity of 2,35 KW, “DCINV” has an EER value of 3,22 so to reach “A+” energy efficiency class, the best in the category of installed monobloc air conditioners.

Both evaporators and condenser motors are Brush Less Direct Current (BLDC) to further reduce energy consumption. In order to reach the set temperature as soon as possible, the new dual power boost function allows you quickly reach your desired temperature.



### Vision Technical Specification

Technical Data	U.M	1.8	2.3 DC INVERTER	3.1 DC INVERTER	FAN COIL UNIT ONLY
Cooling Capacity	kW	1.65	2.04	2.35	Refer To Model
Cooling Capacity - Dual Power Max / Min	kW	N/A	2.6 / 0.8	3.1 / 0.9	
Heating Capacity	kW	1.70	2.10	2.36	
Heating Capacity - Dual Power Max / Min	kW	N/A	2.64 / 0.7	3.05 / 0.8	
Power Input In Cooling	W	580	630	730	
Power Input In Heating	W	545	638	720	
Heating Capacity Fan Coil (70°C)	kW		N/A		4.23
Water Flow Rate	L/h		N/A		364
Water Pressure Loss (70°C)	KPa		N/A		10
Dehumidification Capacity	l/h	0.8	1.0	1.1	Refer To Model
Power Supply Voltage	V-F-Hz	230 -1-5			
EER	W/W	2.84	3.24	3.22	
COP	W/W	3.12	3.29	3.28	
Temperature Level Min / Max	°C	16 - 31			
Energy Efficiency Ratio When Cooling		A	A+	A+	
Energy Efficiency Ratio When Heating		A	A	A	
Internal-External Ventilation Speed	No.	3			
Dimensions (W x H x D)	mm	1030 x 555 x 165	1030 x 555 x 165	1030 x 555 x 165	1030 x 555 x 143
Weight	Kg	47.6	48.5	48.5	Refer To Model
Noise Level (Min / Max)	dB(A)	29 / 38	26 / 39	27 / 41	
Wall Hole Diameter / Condensate Drain	mm	162 / 14			
Refrigerant Gas		R-410A			

# CPL1100 Coolair Evaporative Cooler

In Partnership With Coolair Evaporate Cooling



**powrmatic**



# Coolair Direct Evaporative Air Conditioning

Take the natural approach to cooling. Seeley International's Coolair range of evaporative coolers delivers lots of cool, 100% fresh air, at much lower costs than refrigerated cooling methods.

Coolair units feature advanced technology and a range of unique and clever design features that combine to achieve the highest cooling performance of any similar air conditioner.

Evaporative cooling is fast becoming the only viable option for cooling large areas. A Coolair system uses up to 80% less energy than a refrigerated cooling system. Doors and windows can be left open, with absolutely no loss of cooling efficiency.



## Coolair Benefits

- Up to 90% cheaper to run compared to reverse cycle cooling
- Whisper-quiet cooling
- Low maintenance costs
- Delivers fresh, filtered, healthy outside air
- Low CO2 emissions for the environment
- Superb whole-of-home cooling

## Coolair Applications

- Warehouses
- Repair/Maintenance areas
- Sports centres
- Educational Buildings
- Manufacturing plants
- Storage areas
- Laundries/dry cleaners
- Commercial kitchens
- Agricultural facilities
- Farm Buildings

# coolair

Specification		CPL1100				
Air Flow	Pa	0	40	80	120	160
	Certified Air Delivery m <sup>3</sup> /h	11350	11050	10550	9610	8530
Cooling Capacity	kW	12.5				
Power Consumption	W Max / Min	1330 / 400				
	Current Max (amp)	6.0				
Power Supply	V/ph/Hz	220-240 / 1 / 50				
Controller	Type	Digital				
Fan	Type	Axial				
	Dia (mm)	541				
Motor	Type	PSC				
	Speed Max (rpm)	1360				
	Output W (max)	950				
	Overload & Fuse	Auto reset & 'one shot' fuse				
Pump	Enclosure	IP24				
	Type	Centrifugal				
	Motor	Synchronous				
	Rating W (input)	25				
	Flow rate (L/min)	21				
	V/ph/Hz	230 / 1 / 50				
	Overload	Auto reset				
Enclosure rating	IPX4					
Cooling Pad Chillcel	Size (mm)	850 x 526 (H) x 90 (4 pads)				
	Pad area (m <sup>2</sup> )	1.79				
Water	Tank Capacity (L)	23				
	Inlet (mm / inches)	12.7 / ½ male BSP				
	Drain (mm / inches)	40 / 1 ½ male BSP				
Packing / Shipping	Dimensions	1150 x 1150 x 902 (H)				
	Volume (m <sup>3</sup> )	1.2				
	Weight (kg)	68				
	Operating (kg)	91				
Connecting Duct (raw edged)	Length x Width (mm)	550 x 550				

# Air Conditioning Product Range Accessories

## Midea Accessories

Part Number	Description	Used On
ACPIPEKIT001	5 mtr pipe kit , Specification 6.35mm & 12.7mm (1/4" & 1/2")	LHWMS18
ACPIPEKIT002	5 mtr pipe kit , Specification 6.35mm & 9.52mm (1/4" & 3/8")	LHWMS09/12
ACPIPEKIT003	5 mtr pipe kit , Specification 9.52mm & 16.0mm (3/8" & 5/8")	LHWMS24
MISSION WIFI	Mission Unit WiFi Control Module	Mission Units Only
KJR-135A	Central Control Touch Panel (Single units only)*	SSRFC units only
KJR-90A	Universal Remote Control (Up to 4 units)*	SSRFC units only
CCM03	Central Controller (Up to 64 units)*	SSRFC units only
CCM09	Central Controller with weekly schedule timer (Up to 64 units)*	SSRFC units only

### Notes:

- \* KJR 135A Wired Remote Control c/w Touch Panel Display is compatible with the following models only: SSRFC24, SSRFC36, SSRFC48
- \* KJR 90A Wired Remote Control is compatible for all units except the Luna range
- \* CCM03 Wired Central Control is compatible for all units except the Luna range. The CCM03 can also be connected to a BMS system.
- \* CCM09 Central Controller with weekly schedule timer cannot be connected to a BMS system



Mission Wifi Dongle



KJR-135A



KJR-90A



CCM03



CCM09



Refnet



Pipe Kits

## Powrmatic Vision Accessories

Part Number
Vision Wired Controller
Vision Remote Control
Condensate Nebuliser
External Grill Set (Painted to RAL Colour, Minimum 50 Pieces)
Roof Vent (Painted to RAL Colour, Minimum 50 Pieces)
External Filter



Wired Controller



Remote Control



Condensate Nebuliser



External Grills



Roof Vent



External Filter

## Coolair Accessories

Part Number
IWC10 Wall Controller
SmartHub Control
Upgrade Kit – TBA550 Drain Valve & Salinity Probe
Upgrade Kit – Backdraft Dampers
Roof Vent (Painted to RAL Colour, Minimum 50 Pieces)

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