

ON|OFF



## Residential & Light Commercial A/C Units

## Welcome to the World of **inventor** Air Conditioners

Created by the largest Air Conditioner manufacturers globally  
 Inventor units enjoy a sound reputation of exceptional  
 quality and outstanding performance!



## Our Mission!

**inventor** aims at offering the Air Conditioning professional and end-user, top quality products at competitive prices. We offer products and services flexible to meet the specific needs of our individual client «Your Conditions». Our wide range product mix is continuously updated, new products are introduced annually after closely monitoring the global Air Conditioning market, as well as the social and environmental trends.

Our client is the center of our company! We offer:

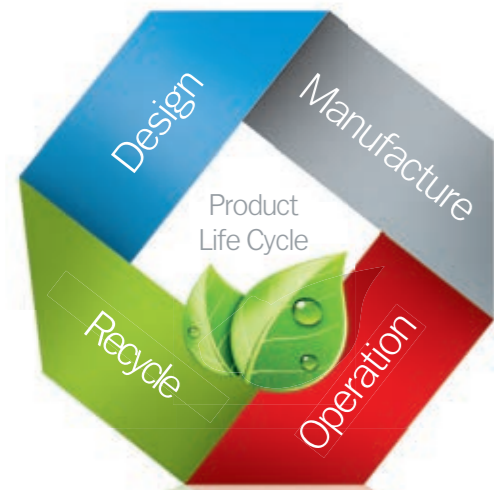
- Innovative top quality products at the most competitive prices
- 5 years warranty of excellent performance
- Unique after sales services
- Products according to specific local demands

48 years of experience, countless satisfied customers in more than 50 countries in the world!



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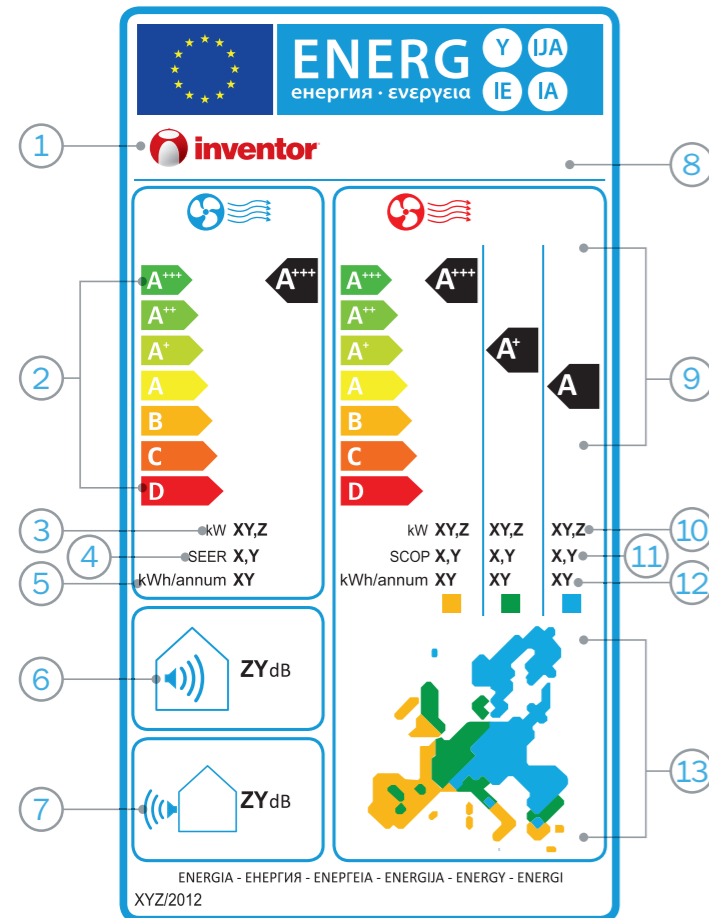


## Eco Design

Inventor Air Conditioners are designed with special consideration on the environmental impacts during their whole lifecycle.

The overall objective of Eco-design products is to reduce greenhouse gas emissions at low cost, through reduced energy demand. Eco-design products are not only environment friendly, but also offer considerable savings through reduced energy demand during operation. In addition, Inventor units are designed and produced taking into account other environmental considerations including: materials use; water use; polluting emissions; waste issues and recyclability.

## New Energy Label



- Brand Name
- Energy classification cooling mode, A+++ the most efficient
- Cooling Capacity
- SEER : Seasonal Efficiency Ratio (for cooling mode), is the cooling season energy efficiency performance, expressed as the ratio between the reference seasonal cooling demand in kWh/a and the seasonal electricity consumption for cooling in kWh/a
- Annual power consumption in cooling mode
- Sound Power Level (dB) indoor unit
- Sound Power Level (dB) outdoor unit
- Indoor's and outdoor's units model name
- Energy classification in heating mode\*
- Heating Capacity\*
- SCOP : Seasonal Coefficient of Performance (for Heating mode) is the heating season efficiency performance, expressed as the ratio between the reference seasonal heating energy demand in kWh/a and the seasonal electricity consumption for heating, which may vary according to the climate profile chosen in kWh/a\*
- Annual power consumption in heating mode\*
- European map divided into 3 climate zones

- Warm zone
- Average zone
- Cold zone

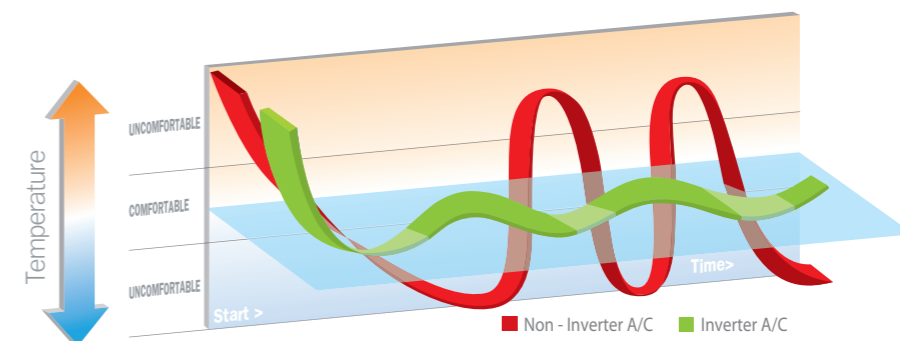
\* Only average climate zone data are obligatory to be written  
 \*\* The new energy label and the eco design are obligatory only for the units up to 12kW



## DC Inverter Technology

Save Energy and enjoy maximum comfort levels with Inventor's DC INVERTER technology

As a multiple-part kit, "DC Inverter" regulates voltage, current and frequency on the compressor and the outdoor unit's motor, succeeding a wide capacity range and stable operation. Combined with the sensors placed both in the indoor and outdoor units, "DC Inverter" offers ultimate comfort levels and superior performance, even in extreme outdoor conditions, with energy savings up to 50%.



- ✓ Save Energy
- ✓ Soft start up
- ✓ Wide capacity range
- ✓ Operation at maximum capacity in order to reach the desired temperature in the shortest time
- ✓ Constant and silent operation at low capacity when desired temperature is reached for a relaxing environment

## All DC Inverter



The advanced All DC Inverter technology allows continuous adjustment and control of the frequency of the compressor and the fan motors of the indoor and the outdoor units. By varying the frequency of the compressor, there is a continuous adjustment of the unit performance to create the perfect indoor conditions fast, smoothly and economically.

The DC Inverter motor of the outdoor unit offers a wide operating range, allowing the unit to work seamlessly in extreme outdoor weather conditions and with great savings of up to 50%. In addition, the internal DC Inverter fan, adjusts with high accuracy the indoor conditions achieving stability in room temperature without fluctuations.

## U - MATCH



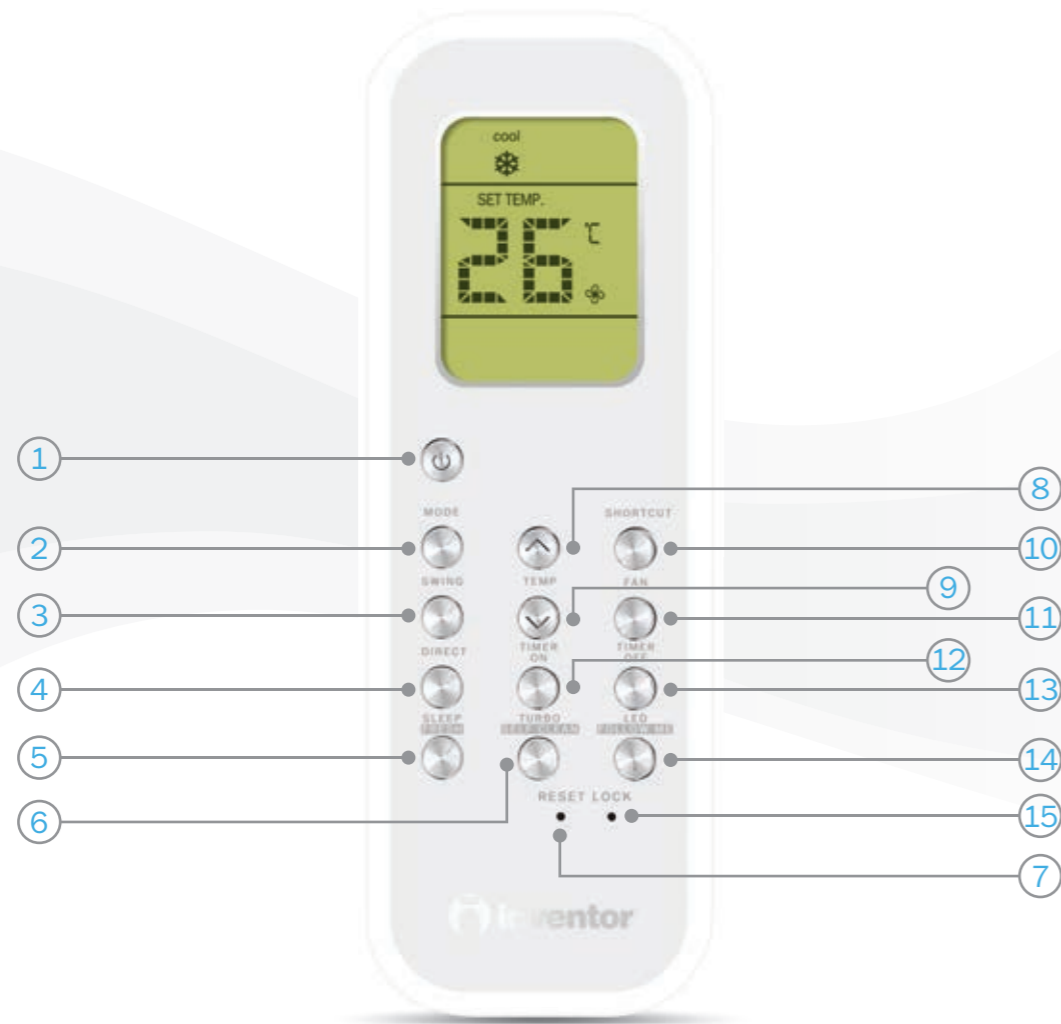
Advanced outdoor unit common to all Light Commercial indoor Air Conditioning units ON/OFF and DC INVERTER.

The same outdoor unit can be connected to either cassette and floor-ceiling or ducted units, achieving, easy maintenance and fewer spare parts in case of damage.

## Various Technologies

 <p><b>12 Steps Indoor Fan Speed</b> Up to 12 steps indoor fan speed, ensures more accurate temperature control and creates an ultra comfortable indoor environment.</p>	 <p><b>5 Steps Outdoor Fan Speed</b> The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency</p>	 <p><b>1 Watt Standby Power consumption</b> less than 1 Watt in standby mode saving energy up to 80%</p>	 <p><b>Self diagnosis</b> Auto error diagnosis makes maintenance easier</p>	 <p><b>Turbo Function</b> To reach the desired indoor temperature quickly</p>	 <p><b>Auto restart</b> Unit restores previous functions after a power loss</p>
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## Remote Control Functions



**1. ON / OFF**  
Turns the unit ON&OFF

**2. MODE**  
Choose: AUTO (Adjusts the function according to the outdoor conditions) COOL, DRY, FAN, HEAT

**3. SWING**  
Set up swing angle for greater air circulation

**4. DIRECT**  
Controls the angle of the swing louver for better air circulation

**5 SLEEP/FRESH**  
Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the Indoor temperature, to match your body metabolism helping you sleep comfortably. If you press the same button for over 2 seconds the ionizer is turned on.

**6. TURBO/SELF CLEAN**  
TURBO function to reach the desired indoor temperature quickly.

**7. RESET**  
Restores the initial settings

**8. UP (∧/ +)**  
Increases the desired indoor room temperature

**9. DOWN (∨/ -)**  
Decreases the desired indoor room temperature

**10. SHORTCUT (Memory Shortcut)**  
Restores the current settings or repeats the previous

**11. FAN SPEED**  
Select Fan Speed: AUTO, LOW, MEDIUM, HIGH

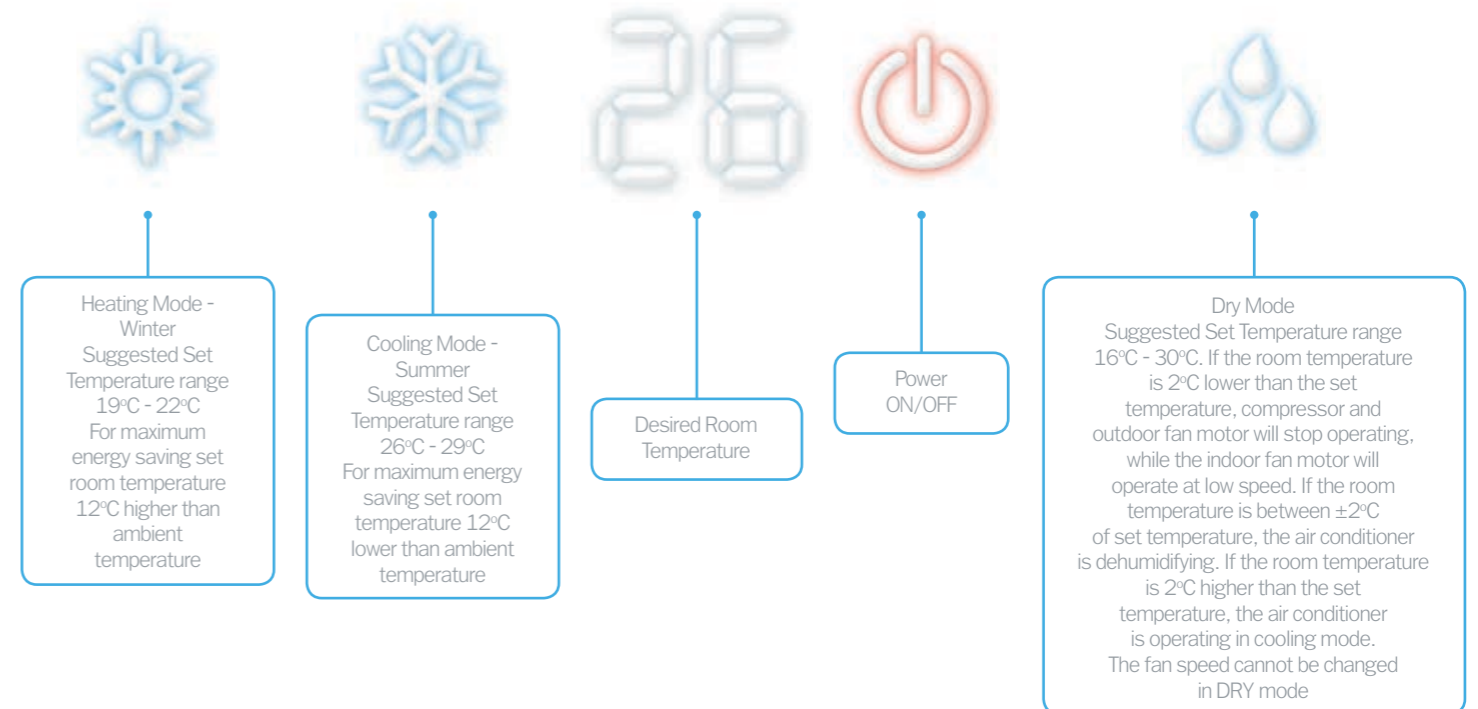
**12. TIMER ON**  
Set timer on, saves energy by switching on your unit the time you need it

**13. TIMER OFF**  
Set timer off, to switch off the unit after a certain time period

**14. LED / FOLLOW ME / I FEEL**  
Switch display on & off. If you press the same button over 2 seconds the Follow Me / I FEEL operation is turned on. With this operation the room temperature is controlled according to the location of the remote controller.

**15. LOCK**  
Locks all the current settings

## LED Display



## Healthy Filters & Ionizer for Healthy Indoor Atmosphere



Cold Catalyst Filter

**Ionizer**  
The Ionizer is one of the most advanced air-cleaning technologies in the world. The Ionizer disinfects and diminishes bad smells in the room up to 95%. At the same time, it generates negative ions, in order to create a safe, healthy and relaxing environment.

**Cold Catalyst Filter**  
It absorbs smells and harmful gases such as formaldehyde and other volatile organic compounds.

## Eco Design Mini Split DC Inverter R410A

MODEL		P2MVI-09/P2MVO-09	P2MVI-12/P2MVO-12	P2MVI-18/P2MVO-18	P2MVI-24/P2MVO-24	
Cooling Capacity (Btu/h)		9.000 (4.390-11.250)	12.000 (4.870-15.240)	17.500 (5.800-20.300)	22.000 (7.240-24.640)	
Heating Capacity (Btu/h)		10.000 (3.300-12.700)	13.000 (3.380-16.640)	18.000 (3.820-21.780)	25.000 (4.600-30.000)	
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	2.6	3.5	5.1	6.4
		Energy Class	A++	A++	A++	A++
		SEER	6.1	6.7	6.4	6.1
	Heating (Middle Zone)	Pdesign (kW)	2.4	3.2	4.5	5.2
		Energy Class	A+	A+	A+	A+
		SCOP	4.0	4.0	4.0	4.0
Annual Power Consumption (kWh/year)		149	183	279	367	
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1	
Current Input (A)	Cooling	0.49-5.52	0.45-7.47	0.62-9.95	0.74-12.09	
	Heating	0.64-5.78	0.7-7.57	0.78-9.91	1.02-13.65	
Power Input (W)	Cooling	112-1.270	104-1.720	142-2.290	171-2.780	
	Heating	147-1.330	162-1.740	179-2.280	235-3.140	
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		650/560/450	650/560/450	850/620/540	1.150/1.070/880	
Noise Level (dB(A))	Indoor unit (High/Low)	41/29	43/31	44/30	50/39	
	Outdoor unit	57	56	61	60	
Sound Power Level Indoor unit / Outdoor unit (dB(A))		54/60	55/61	57/65	62/67	
Dimensions WxDxH (mm)	Indoor unit	800x188x275	800x188x275	940x205x275	1.045x235x315	
	Outdoor unit	780x250x540	810x310x558	810x310x558	845x320x700	
Net Weight Indoor/Outdoor (kg)		7.5/28	7.5/30.5	9/37	12/47	
Compressor Type		ROTARY	ROTARY	ROTARY	Twin-rotary	
Liquid line / Gas line		1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"	
Refrigerant		R410A/950g	R410A/1.080g	R410A/1.650g	R410A/1.950g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	
	Heating	-15-30	-15-30	-15-30	-15-30	
Loading Quantity 20'/40'/40 HQ (Set)		112/235/265	98/200/220	90/188/208	69/140/160	

P2MVI



**A++ Energy Class**  
Eco design units

**ALL DC INVERTER high technology**  
DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings

**Excellent Operation**  
In extreme weather Conditions without efficiency loss. Cooling -15°C-50°C / Heating -15°C-30°C

**Cooling Mode**  
In low ambient temperatures, -15°C-50°C

**Wide Operation Range**  
With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to un smoothly. It also provides accurate control for a comfortable environment and great energy saving

**12 Steps Indoor Fan Speed**  
Up to 12 steps indoor fan speed, ensures more accurate temperature control and creates an ultra comfortable indoor environment

**5 Steps Outdoor Fan Speed**  
The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

**1 Watt Standby**  
Power consumption less than 1 Watt in standby mode saving energy up to 80%

**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Louver Position Memory**  
The horizontal louver will automatically move to the same position as it was set in the previous operation

**Refrigerant Leakage Detect**  
The indoor unit will show the error code "EC" and will stop automatically when refrigerant leakage is detected

**I FEEL**  
The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

**Cold Catalyst Filter**  
Eliminates formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors

**Auto Restart**  
Saves the last settings in case of power failure

**Back - Lit Display**

**Plasma Dust Collector (Optional)**  
Generates a high voltage electrostatic zone, absorbs and eliminates dust, smoke and pollen particles. It also deodorizes air by removing tobacco odors, garbage smells etc

**Vitamin C Filter (Optional)**  
Releases vitamin C which can eliminate active oxygen to beautify the skin

**Silver Ion Filter (Optional)**  
Eliminates bacteria effectively by decomposing their cell wall

**Bio Filterpollution (Optional)**  
Consists of a specialized biological enzymes and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and mic robes. Biological enzymes kill bacteria by dissolving their cell wall, therefore eliminating the problem of re-pollution

**Golden Fin (Optional)**  
Effectively prevents bacteria beeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

**8°C Heating (Optional)**  
In the heating mode, the preset temperature of the air conditioner can be as low as 8°C. This allows a steady room temperature and prevents the house from freezing when it is unoccupied for a long time in severe cold

**Self-Cleaning (Optional)**  
Protects the inner parts of the unit from mold and eliminates odors in cooling mode

**Silent Mode (Optional)**  
Creates a quiet and comfortable environment

**Wired Control (Optional)**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

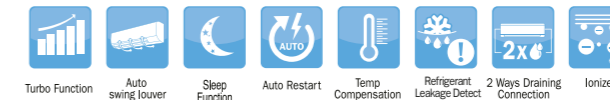
## Alternative Panels for Exports



PASSION AP1

PASSION AP2

### STANDARD FEATURES



### OPTIONAL FEATURES



## Eco Design Mini Split DC Inverter R410A

MODEL		A2MVI-09/A2MVO-09	A2MVI-12/A2MVO-12	A2MVI-18/A2MVO-18	A2MVI-24/A2MVO-24	
Cooling Capacity (Btu/h)		9.000 (4.430-10.980)	12.000 (4.820-14.640)	17.500 (6.500-20.120)	22.000 (7.450-24.200)	
Heating Capacity (Btu/h)		9.500 (3.450-11.780)	12.500 (3.350-15.500)	18.000 (4.350-21.240)	25.000 (5.460-29.500)	
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	2.6	3.5	5.1	6.4
		Energy Class	A+	A+	A++	A+
		SEER	5.6	5.6	6.1	5.9
		Annual Power Consumption (kWh/year)	163	219	293	380
	Heating (Middle Zone)	Pdesign (kW)	2.4	2.6	4.8	5.5
		Energy Class	A	A	A	A
		SCOP	3.8	3.8	3.8	3.8
		Annual Power Consumption (kWh/year)	884	958	1.768	2.026
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1	
Current Input (A)	Cooling	0.63-5.39	0.6-7.17	0.68-9.87	0.89-11.87	
	Heating	0.76-5.35	0.77-7.04	0.83-9.65	1.27-13.43	
Power Input (W)	Cooling	144-1.240	139-1.650	157-2.270	204-2.730	
	Heating	175-1.230	177-1.620	191-2.220	293-3.090	
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		650/560/450	650/560/450	750/550/480	1.100/970/800	
Noise Level (dB(A))	Indoor unit (High/Low)	40/31	43/31	44/32	50/40	
	Outdoor unit	56	56	59	60	
Sound Power Level Indoor unit / Outdoor unit (dB(A))		55/63	56/63	56/65	63/67	
Dimensions WxDxH (mm)	Indoor unit	800x188x275	800x188x275	940x205x275	1.045x235x315	
	Outdoor unit	780x250x540	780x250x540	760x285x590	845x320x700	
Net Weight Indoor/Outdoor (kg)		7.5/28	7.5/28	9/34.5	12.5/47	
Compressor Type		ROTARY	ROTARY	ROTARY	Twin-rotary	
Liquid line / Gas line		1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"	
Refrigerant		R410A/800g	R410A/950g	R410A/1.250g	R410A/1.950g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	
	Heating	-15-30	-15-30	-15-30	-15-30	
Loading Quantity 20'/40'/40 HQ (Set)		112/235/265	112/235/265	98/200/225	69/140/160	

## Alternative Panels for Exports



ALFA AP1

ALFA AP2

A2MVI



**A++ Energy Class**  
Eco design units

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In extreme weather Conditions without efficiency loss. Colling -15°C-50°C / Heating -15°C-30°C

**Cooling Mode**  
In low ambient temperatures, -15°C-50°C

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**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Louver Position Memory**  
The horizontal louver will automatically move to the same position as it was set in the previous operation

**Refrigerant Leakage Detect**  
The indoor unit will show the error code "EC" and will stop automatically when refrigerant leakage is detected

**Cold Catalyst Filter**  
Eliminates formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors

**Auto Restart**  
Saves the last settings in case of power failure

**Back - Lit Display**

**i FEEL**  
The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

**Plasma Dust Collector (Optional)**  
Generates a high voltage electrostatic zone, absorbs and eliminates dust, smoke and pollen particles. It also deodorizes air by removing tobacco odors, garbage smells etc

**Vitamin C Filter (Optional)**  
Releases vitamin C which can eliminate active oxygen to beautify the skin

**Silver Ion Filter (Optional)**  
Eliminates bacteria effectively by decomposing their cell wall

**Bio Filterpollution (Optional)**  
Consists of a specialized biological enzymes and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and mic robes. Biological enzymes kill bacteria by dissolving their cell wall, therefore eliminating the problem of re-pollution

**Golden Fin (Optional)**  
Effectively prevents bacteria beeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

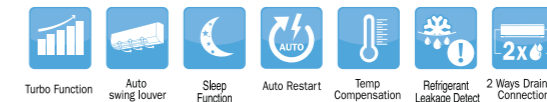
**8°C Heating (Optional)**  
In the heating mode, the preset temperate of the air conditioner can be as low as 8°C. This allows a steady room temperature and prevents the house from freezing when it is unoccupied for a long time in severe cold

**Self-Cleaning (Optional)**  
Protects the inner parts of the unit from mold and eliminates odors in cooling mode

**Silent Mode (Optional)**  
Creates a quiet and comfortable environment

**Wired Control (Optional)**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

STANDARD FEATURES



OPTIONAL FEATURES



## Mini Split R410A Unit

MODEL	OMI-09 / OMO-09		OMI-12 / OMO-12		OMI-18 / OMO-18		OMI-24 / OMO-24	
	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Cooling Capacity (Btu/h)	9.000		12.000		18.000		21.000	
Heating Capacity (Btu/h)	9.500		13.000		19.000		23.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1		230/50/1		230/50/1		230/50/1	
Current Input (A)	Cooling	3.5	4.81	7.5	9.8			
	Heating	3.3	4.51	7.2	9.4			
Power Input (W)	Cooling	820	1.092	1.643	2.190			
	Heating	770	1.053	1.543	2.100			
EER	3.22		3.22		3.21		3.81	
COP	3.62		3.62		3.61		3.21	
Energy Class	A / A		A / A		A / A		C / C	
Air Flow Volume (Hi/Med/Low) (m³/h)	550/480/380		600/510/370		1.000/820/730		1.100/1.000/810	
Noise Level (dB(A))	Indoor unit (High/Low)	39/35/29	42/37/28	45/40/35	49/45/39			
	Outdoor unit	56	55	60	63			
Dimensions WxDxH (mm)	Indoor unit	770x188x255	770x188x255	1.030x218x315	1.030x218x315			
	Outdoor unit	700x240x540	780x250x540	760x285x590	820x330x595			
Net Weight Indoor/Outdoor (kg)	7/24.5		7.5/28		12.5/37.5		12/44	
Compressor Type	ROTARY		ROTARY		ROTARY		ROTARY	
Liquid line / Gas line	1/4" / 3/8"		1/4" / 1/2"		1/4" / 1/2"		3/8" / 5/8"	
Refrigerant	R410A/620g		R410A/750g		R410A/1.280g		R410A/1.600g	
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43	18-43			
	Heating	-7-24	-7-24	-7-24	-7-24			
Loading Quantity 20'/40'/40 HQ (Set)	126/271/294		111/239/273		87/178/200		75/156/176	

OMI



## Alternative Panels for Exports



ORBIT AP1



ORBIT AP2

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Louver Position Memory

The horizontal louver will automatically move to the same position as it was set in the previous operation

### Refrigerant Leakage Detect

The indoor unit will show the error code "EC" and will stop automatically when refrigerant leakage is detected

### Auto Restart

Saves the last settings in case of power failure

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### I FEEL

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

### Plasma Dust Collector (Optional)

Generates a high voltage electrostatic zone, absorbs and eliminates dust, smoke and pollen particles. It also deodorizes air by removing tobacco odors, garbage smells etc

### Vitamin C Filter (Optional)

Releases vitamin C which can eliminate active oxygen to beautify the skin

### Bio Filterpollution (Optional)

Consists of a specialized biological enzymes and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and microbes. Biological enzymes kill bacteria by dissolving their cell wall, therefore eliminating the problem of re-pollution

### Silver Ion Filter (Optional)

Eliminates bacteria effectively by decomposing their cell wall

### Cold Catalyst Filter

Eliminates formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors

### Golden Fin (Optional)

Effectively prevents bacteria beeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

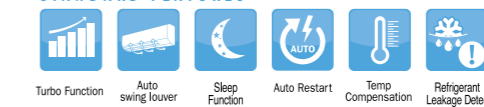
### 8°C Heating (Optional)

In the heating mode, the preset temperature of the air conditioner can be as low as 8°C. This allows a steady room temperature and prevents the house from freezing when it is unoccupied for a long time in severe cold

### Self-Cleaning (Optional)

Protects the inner parts of the unit from mold and eliminates odors in cooling mode

### STANDARD FEATURES



### OPTIONAL FEATURES



## Mini Split R410A Unit

MODEL	OHMI-09 / OHMO-09		OHMI-12 / OHMO-12		OHMI-18 / OHMO-18		OHMI-24 / OHMO-24	
	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Cooling Capacity (Btu/h)	9,000		12,000		18,000		21,000	
Heating Capacity (Btu/h)	9,500		12,000		19,000		21,000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1		230/50/1		230/50/1		230/50/1	
Current Input (A)	Cooling	4.9	6.6	10.0	10.5			
	Heating	3.9	6.1	9.7	9.5			
Power Input (W)	Cooling	1,099	1,460	2,189	2,250			
	Heating	870	1,345	2,133	2,050			
EER	2.40		2.41		2.41		2.74	
COP	3.20		2.60		2.61		3.00	
Air Flow Volume (Hi/Med/Low) (m³/h)	480/400/320		600/500/380		800/700/510		1,200/1,050/850	
Noise Level (dB(A))	Indoor unit (Hi/Lo)	41/36/29	41/37/30	44/41/32	49/44/36			
	Outdoor unit	53	56	57	58			
Dimensions WxDxH (mm)	Indoor unit	680x178x255	770x188x255	905x198x275	1,030x218x315			
	Outdoor unit	685x260x430	700x240x540	780x250x540	845x320x700			
Net Weight Indoor/Outdoor (kg)	6.5 / 22		7.5 / 26		9.5 / 32		12 / 49	
Compressor Type	ROTARY		ROTARY		ROTARY		ROTARY	
Liquid line / Gas line	1/4" / 3/8"		1/4" / 1/2"		1/4" / 1/2"		3/8" / 5/8"	
Refrigerant	R22/540g		R22/680g		R22/1,270g		R22/1,650g	
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43	18-43			
	Heating	-7-24	-7-24	-7-24	-7-24			
Loading Quantity 20'/40'/40 HQ (Set)	145/310/350		126/271/294		111/229/251		70/145/164	

MODEL	OCMI-09 / OCMO-09		OCMI-12 / OCMO-12		OCMI-18 / OCMO-18		OCMI-24 / OCMO-24	
	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Cooling Capacity (Btu/h)	9,000		12,000		18,000		21,000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1		230/50/1		230/50/1		230/50/1	
Current Input (A)	4.9		6.6		10.0		11.0	
Power Input (W)	1,099		1,460		2,190		2,360	
EER	2.41		2.41		2.41		2.61	
Air Flow Volume (Hi/Med/Low) (m³/h)	480/400/320		600/500/400		750/660/480		1,100/1,000/830	
Noise level (dB(A))	Indoor unit (Hi/Lo)	41/36/29	40/37/29	43/41/31	48/45/39			
	Outdoor unit	52	53	58	58			
Dimensions WxDxH (mm)	Indoor unit	680x178x255	770x188x255	905x198x275	1,030x218x315			
	Outdoor unit	685x260x430	700x240x540	780x250x540	845x320x700			
Net Weight Indoor/Outdoor (kg)	6.5 / 21		7.5 / 25		9.5 / 31.5		12 / 43.5	
Compressor Type	ROTARY		ROTARY		ROTARY		ROTARY	
Liquid line / Gas line	1/4" / 3/8"		1/4" / 1/2"		1/4" / 1/2"		3/8" / 5/8"	
Refrigerant	R22/430g		R22/530g		R22/750g		R22/930g	
Operation Temperature Range (°C)	18-43		18-43		18-43		18-43	
Loading Quantity 20'/40'/40 HQ (Set)	145/310/350		126/271/294		111/229/251		70/145/164	

## Alternative Panels for Exports



ORBIT AP1

### OCMI & OHMI



#### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably.

#### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode.

#### Louver Position Memory

The horizontal louver will automatically move to the same position as it was set in the previous operation.

#### Refrigerant Leakage Detect

The indoor unit will show the error code "EC" and will stop automatically when refrigerant leakage is detected.

#### Auto Restart

Saves the last settings in case of power failure.

#### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation.

#### I FEEL

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body.

#### Plasma Dust Collector (Optional)

Generates a high voltage electrostatic zone, absorbs and eliminates dust, smoke and pollen particles. It also deodorizes air by removing tobacco odors, garbage smells etc.

#### Vitamin C Filter (Optional)

Releases vitamin C which can eliminate active oxygen to beautify the skin.

#### Bio Filterpollution (Optional)

Consists of a specialized biological enzymes and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and microbes. Biological enzymes kill bacteria by dissolving their cell wall, therefore eliminating the problem of re-pollution.

#### Silver Ion Filter (Optional)

Eliminates bacteria effectively by decomposing their cell wall.

#### Cold Catalyst Filter

Eliminates formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors.

#### Golden Fin (Optional)

Effectively prevents bacteria breeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements.

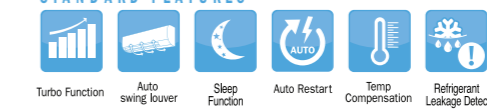
#### 8°C Heating (Optional)

In the heating mode, the preset temperature of the air conditioner can be as low as 8°C. This allows a steady room temperature and prevents the house from freezing when it is unoccupied for a long time in severe cold.

#### Self-Cleaning (Optional)

Protects the inner parts of the unit from mold and eliminates odors in cooling mode.

#### STANDARD FEATURES



#### OPTIONAL FEATURES





## Flexibility, economy and comfort with environment friendly operation



Outdoor units from  
14.000 up to 36.000Btu/h

Indoor units from  
7.000 up to 18.000Btu/h



Up to 5  
Connections



Operation Temperature Range (°C)  
Cooling -15°~50° / Heating -15°~24°

### Back - Lit Display

### 12 Steps Indoor Fan Speed

Up to 12 steps indoor fan speed, ensures more accurate temperature control and creates an ultra comfortable indoor environment

### Cold Catalyst Filter

Eliminates formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Louver Position Memory

The horizontal louver will automatically move to the same position as it was set in the previous operation

### Auto Restart

Saves the last settings in case of power failure

### Auto Error Diagnosis

### I FEEL (Optional)

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

### Vitamin C Filter (Optional)

Releases vitamin C which can eliminate active oxygen to beautify the skin

### Bio Filterpollution (Optional)

Consists of a specialized biological enzymes and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and microbes. Biological enzymes kill bacteria by dissolving their cell wall, therefore eliminating the problem of re-pollution

### Silver Ion Filter (Optional)

Eliminates bacteria effectively by decomposing their cell wall

### Golden Fin (Optional)

Effectively prevents bacteria beeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15°C in cooling mode)

### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient



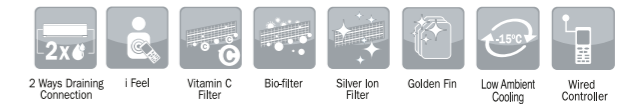
P2MVI



### STANDARD FEATURES



### OPTIONAL FEATURES



MODEL	P2MVI-09	P2MVI-12	P2MVI-18
Cooling Capacity (Btu/h)	9.000	12.000	17.500
Heating Capacity (Btu/h)	10.000	12.000	18.000
Voltage/Frequency/Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1
Current Input (A)			
Cooling	0.28	0.28	0.35
Heating	0.28	0.28	0.35
Power Input (W)			
Cooling	20	20	30
Heating	20	20	30
Air Flow Volume (m <sup>3</sup> /h)	650/560/450	650/560/450	850/620/540
Noise Level (dB(A))	41/37/29	43/38/31	44/34/30
Sound Power Level (dB(A))	54	55	57
Net Dimensions WxHxD (mm)	800x275x188	800x275x188	940x275x205
Net Weight Indoor (kg)	7.3	7.2	9
Liquid Line / Gas Line	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"
Room Temperature Range (°C)			
Cooling	17-32	17-32	17-32
Heating	0-30	0-30	0-30

## BLUE-LINE RANGE

### Eco Design Mini Split DC Inverter

#### 12 Steps Indoor Fan Speed

Up to 12 steps indoor fan speed, ensures more accurate temperature control and creates an ultra comfortable indoor environment

#### Cold Catalyst Filter

Eliminates formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors

#### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

#### Louver Position Memory

The horizontal louver will automatically move to the same position as it was set in the previous operation

#### Auto Restart

Saves the last settings in case of power failure

#### Auto Error Diagnosis

#### Back - Lit Display

#### i FEEL (Optional)

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

#### Vitamin C Filter (Optional)

Releases vitamin C which can eliminate active oxygen to beautify the skin

#### Bio Filterpollution (Optional)

Consists of a specialized biological enzymes and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and mic robes. Biological enzymes kill bacteria by dissolving their cell wall, therefore eliminating the problem of re-pollution

#### Silver Ion Filter (Optional)

Eliminates bacteria effectively by decomposing their cell wall

#### Golden Fin (Optional)

Effectively prevents bacteria beeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

#### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15oC in cooling mode)

#### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient



A2MVI



#### STANDARD FEATURES



#### OPTIONAL FEATURES



MODEL	A2MVI-07	A2MVI-09	A2MVI-12	A2MVI-18
Cooling Capacity (Btu/h)	7.000	9.000	12.000	17.000
Heating Capacity (Btu/h)	8.000	10.000	13.000	18.000
Voltage/Frequency/Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	0.21	0.21	0.11
	Heating	0.21	0.21	0.11
Power Input (W)	Cooling	48	48	24
	Heating	48	48	24
Air Flow Volume (m <sup>3</sup> /h)	620/540/440	620/540/440	630/550/430	730/480/400
Noise Level (dB(A))	40/36/29	41/38/31	43/40/31	41/33/31
Sound Power Level (dB(A))	58	58	57	55
Net Dimensions WxHxD (mm)	800x275x188	800x275x188	800x275x188	940x275x205
Net Weight Indoor (kg)	7.3	7	7	9
Liquid Line / Gas Line	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"
Room Temperature Range (°C)	Cooling	17-32	17-32	17-32
	Heating	0-30	0-30	0-30

### Eco Design Round Flow Cassette

#### 360° Air Outlet

Creates a soft and gentle air-flow which circulates throughout the room and provides an even temperature distribution

#### Compact Design

Suitable for easy installations in one standard ceiling tile

#### External Air Duct Outlet

Flexible air supply due to air outlet slots

#### Fresh Air Intake

For a clean and healthy environment

#### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

#### Auto Restart

Saves the last settings in case of power failure

#### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

#### Overflow Pump Indicator

Indicates the water level in order to empty the water tank on time

#### Built-In E-Box

The E-box is simply and safely built inside the indoor unit. This integrated design provides a more compact body size

#### Built-in Drain Pump

The drain pump can lift the condensing water up to 750mm

#### Centralized Control Manager (Optional)

The centralized controller is a multifunctional device that can control up to 64 indoor units

#### i FEEL (Optional)

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

#### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

#### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

#### Error Alarm Port (Optional)

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

#### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15°C) in cooling mode



LV2MCI



#### STANDARD FEATURES



#### OPTIONAL FEATURES



MODEL	LV2MCI-07	LV2MCI-09	LV2MCI-12	LV2MCI-18
Cooling Capacity (Btu/h)	7.000	9.000	12.000	18.000
Heating Capacity (Btu/h)	8.000	10.000	13.000	18.000
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	0.18	0.18	0.44
	Heating	0.18	0.18	0.44
Power Input (W)	Cooling	40	40	102
	Heating	40	40	102
Air Flow Volume (m <sup>3</sup> /h)	580	580	720	800
Noise Level (dB(A))	43	49	48	46
Sound Power Level (dB(A))	54	53	54	54
Net Dimensions WxHxD (mm)	Panel	647x50x647	647x50x647	647x50x647
	Indoor Unit	570x260x570	570x260x570	570x260x570
Net Weight Panel /Indoor (kg)	2.5/16	2.5/16	2.5/16	2.5/18
Liquid / Gas Line	1/4"/3/8"	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Room Temperature Range (°C)	Cooling	17-32	17-32	17-32
	Heating	0-30	0-30	0-30

## Eco Design Console Unit

### Compact Design

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Auto Restart

Saves the last settings in case of power failure

### Wide Angle Air Flow

For greater air circulation

### Low Ambient Cooling

Operation at low outdoor temperature (up to -15°C) in cooling mode

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### Double Air Outlet

Air outlet from top and bottom to enjoy fast cooling

### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

### Healthy Filters (Optional)



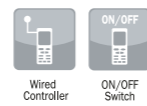
LV2MLI



#### STANDARD FEATURES



#### OPTIONAL FEATURES



## Eco Design Ducted Unit

### Super Slim Design

Smaller indoor unit's height compared to the conventional indoor units

### Return Air Intake

Flexible air intake from the back or the bottom part of the unit

### Fresh Air Intake

For a clean and healthy environment

### Adjustable Static Pressure Switch

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Auto Restart

Saves the last settings in case of power failure

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Ability to connect with BMS

### Centralized Control Manager (Optional)

The centralized controller is a multifunctional device that can control up to 64 indoor units

### I FEEL (Optional)

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

### Error Alarm Port (Optional)

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15°C) in cooling mode

### Built-in Drain Pump (Optional)

The drain pump can lift the condensing water up to 750mm

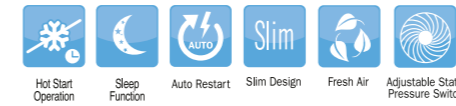
### Remote Controller (Optional)



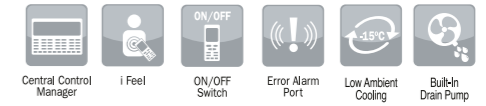
LV2MDI



#### STANDARD FEATURES



#### OPTIONAL FEATURES



MODEL	LV2MLI-07	LV2MLI-09	LV2MLI-12	LV2MLI-18
Cooling Capacity (Btu/h)	7,000	9,000	12,000	18,000
Heating Capacity (Btu/h)	8,000	10,000	13,000	18,000
Voltage/Frequency/Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	0.13	0.13	0.17
	Heating	0.13	0.13	0.17
Power Input (W)	Cooling	30	30	40
	Heating	30	30	40
Air Flow Volume (m <sup>3</sup> /h)	680	680	650	740
Noise Level (dB(A))	47	47	47	48
Sound Power Level (dB(A))	56	57	57	59
Net Dimensions WxHxD (mm)	700x600x210	700x600x210	700x600x210	700x600x210
Net Weight Indoor (kg)	13.6	13	15	15
Liquid Line / Gas Line	1/4"/3/8"	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Room Temperature Range (°C)	Cooling	17-32	17-32	17-32
	Heating	0-30	0-30	0-30

MODEL	LV2MDI-07	LV2MDI-09	LV2MDI-12	LV2MDI-18
Cooling Capacity (Btu/h)	7,000	9,000	12,000	18,000
Heating Capacity (Btu/h)	8,000	10,000	13,000	20,000
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	0.13	0.13	0.17
	Heating	0.13	0.13	0.17
Power Input (W)	Cooling	30	30	40
	Heating	30	30	40
Air Flow Volume (m <sup>3</sup> /h)	600	600	680	1,000
Static Pressure (Pa)	40	40	40	70
Noise Level (dB(A))	38	43	43	46
Sound Power Level (dB(A))	55	55	55	56
Net Dimensions WxHxD (mm)	700x210x635	700x210x635	700x210x635	920x210x635
Net Weight Indoor (kg)	19.5	19.5	18	23
Liquid / Gas Line	1/4"/3/8"	1/4"/3/8"	1/4"/3/8"	1/4"/1/2"
Room Temperature Range (°C)	Cooling	17-32	17-32	17-32
	Heating	0-30	0-30	0-30

## Free Match Multi Outdoor Units

MODEL		U2MRSL(2)-14	U2MRSL(2)-18	U2MRSL(3)-21
Cooling Capacity (Btu/h)		14.000	18.000	21.000
Heating Capacity (Btu/h)		16.000	21.000	23.000
Number of Indoor Units (min-max)		1-2	1-2	1-3
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	4.1	5.3
		SEER	5.2	6.3
	Heating (Middle Zone)	Pdesign (kW)	4.4	5.8
		SCOP	3.5	4.1
Energy Class		A	A++	A++
Noise Level (dB(A))		62	61	58
Sound Power Level (dB(A))		63	63	64
Dimensions WxHxD (mm)		845x700x320	845x700x320	845x700x320
Net Weight Outdoor (kg)		44	48	50
Compressor Type		ROTARY	Twin-rotary	Twin-rotary
Liquid Line / Gas Line		2 x 1/4"/3/8"	2 x 1/4"/3/8"	3 x 1/4"/3/8"
Refrigerant		R410A/1.550g	R410A/1.900g	R410A/2.100g
Maximum Pipe Length (m)	Total	30	30	45
	For one Indoor Unit	20	20	25
Max. Height Difference Between Indoor and Outdoor Unit (m)	Outdoor Unit Higher than Indoor Unit	10	10	10
	Outdoor Unit Lower than Indoor Unit	15	15	15
Max. Height Difference Between Indoor Units (m)		10	10	10
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24

MODEL		U2MRSL(3)-27	U2MRSL(4)-28	U2MRSL(4)-36	U2MRSL(5)-36
Cooling Capacity (Btu/h)		27.000	28.000	36.000	36.000
Heating Capacity (Btu/h)		30.000	31.000	41.000	42.000
Number of Indoor Units (min-max)		1-3	1-4	1-4	1-5
Voltage/Frequency/Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	8.1	8.2	10.55
		SEER	7.0	6.4	5.8
	Heating (Middle Zone)	Pdesign (kW)	8.6	8.2	10.9
		SCOP	3.9	3.8	3.8
Energy Class		A++	A++	A+	A
Noise Level (dB(A))		61	59	64	63
Sound Power Level (dB(A))		67	70	67	67
Dimensions WxHxD (mm)		900x860x315	900x860x315	990x965x345	990x965x345
Net Weight Outdoor (kg)		62	65	78	80
Compressor Type		Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary
Liquid Line / Gas Line		3 x 1/4"/3/8"	4 x 1/4"/3/8"	4 x 1/4"/3/8"	5 x 1/4"/3/8"
Refrigerant		R410A/2.400g	R410A/2.400g	R410A/2.700g	R410A/3.000g
Maximum Pipe Length (m)	Total	45	60	60	75
	For one Indoor Unit	25	30	30	30
Max. Height Difference Between Indoor and Outdoor Unit (m)	Outdoor Unit Higher than Indoor Unit	10	10	10	10
	Outdoor Unit Lower than Indoor Unit	15	15	15	15
Max. Height Difference Between Indoor Units (m)		10	10	10	10
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24



U2MRSL



### STANDARD FEATURES



Connects up to 5 Indoor Units

**A++ Energy Class**  
Eco design units

**ALL DC INVERTER high technology**  
DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings

**Wide Operation Range**  
With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to run smoothly. It also provides accurate control for a comfortable environment and great energy saving

**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C-50°C / Heating -15°C-30°C

**Cooling Mode**  
In low ambient temperatures, -15°C-50°C

**5 Steps Outdoor Fan Speed**  
The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

**Flexible Installation**  
Maximum total pipe length up to 75m

**Wide Voltage Range (198-264V)**  
Suitable for unstable power supply areas

Power Relay Control

Low Noise Air Flow System

Hydrophilic Aluminum Fins

Discharge Pipe Sensor Protection

Electronic Expansion Valve Per Circuit

Error Diagnosis Display

## Combination Table

Indoor Unit A	Indoor Unit B	Indoor Unit C	Indoor Unit D	Indoor Unit E	U2MRSL(2)-14	U2MRSL(2)-18	U2MRSL(3)-21	U2MRSL(3)-27	U2MRSL(4)-28	U2MRSL(4)-36	U2MRSL(5)-36
7k	-	-	-	-	•	•	•	•	•	•	•
9k	-	-	-	-	•	•	•	•	•	•	•
12k	-	-	-	-	•	•	•	•	•	•	•
18k	-	-	-	-	•	•	•	•	•	•	•
7k	7k	-	-	-	•	•	•	•	•	•	•
7k	9k	-	-	-	•	•	•	•	•	•	•
7k	12k	-	-	-	•	•	•	•	•	•	•
7k	18k	-	-	-	•	•	•	•	•	•	•
9k	9k	-	-	-	•	•	•	•	•	•	•
9k	12k	-	-	-	•	•	•	•	•	•	•
9k	18k	-	-	-	•	•	•	•	•	•	•
12k	12k	-	-	-	•	•	•	•	•	•	•
12k	18k	-	-	-	•	•	•	•	•	•	•
18k	18k	-	-	-	•	•	•	•	•	•	•
7k	7k	7k	-	-	•	•	•	•	•	•	•
7k	7k	9k	-	-	•	•	•	•	•	•	•
7k	7k	12k	-	-	•	•	•	•	•	•	•
7k	7k	18k	-	-	•	•	•	•	•	•	•
7k	9k	9k	-	-	•	•	•	•	•	•	•
7k	9k	12k	-	-	•	•	•	•	•	•	•
7k	9k	18k	-	-	•	•	•	•	•	•	•
7k	12k	12k	-	-	•	•	•	•	•	•	•
7k	12k	18k	-	-	•	•	•	•	•	•	•
7k	18k	18k	-	-	•	•	•	•	•	•	•
9k	9k	9k	-	-	•	•	•	•	•	•	•
9k	9k	12k	-	-	•	•	•	•	•	•	•
9k	9k	18k	-	-	•	•	•	•	•	•	•
9k	12k	12k	-	-	•	•	•	•	•	•	•
9k	12k	18k	-	-	•	•	•	•	•	•	•
9k	18k	18k	-	-	•	•	•	•	•	•	•
12k	12k	12k	-	-	•	•	•	•	•	•	•
12k	12k	18k	-	-	•	•	•	•	•	•	•
12k	18k	18k	-	-	•	•	•	•	•	•	•
18k	12k	18k	-	-	•	•	•	•	•	•	•
7k	7k	7k	7k	-	•	•	•	•	•	•	•
7k	7k	7k	9k	-	•	•	•	•	•	•	•
7k	7k	7k	12k	-	•	•	•	•	•	•	•
7k	7k	7k	18k	-	•	•	•	•	•	•	•
7k	7k	9k	9k	-	•	•	•	•	•	•	•
7k	7k	9k	12k	-	•	•	•	•	•	•	•
7k	7k	9k	18k	-	•	•	•	•	•	•	•
7k	7k	12k	12k	-	•	•	•	•	•	•	•
7k	7k	12k	18k	-	•	•	•	•	•	•	•
7k	7k	18k	18k	-	•	•	•	•	•	•	•
7k	9k	9k	9k	-	•	•	•	•	•	•	•
7k	9k	9k	12k	-	•	•	•	•	•	•	•
7k	9k	9k	18k	-	•	•	•	•	•	•	•

• : Available Combination of Indoor Units  
 - : Not selected Indoor Units  
 Blank : Unavailable Combination

## Combination Table

Indoor Unit A	Indoor Unit B	Indoor Unit C	Indoor Unit D	Indoor Unit E	U2MRSL(2)-14	U2MRSL(2)-18	U2MRSL(3)-21	U2MRSL(3)-27	U2MRSL(4)-28	U2MRSL(4)-36	U2MRSL(5)-36
7k	9k	12k	12k	-					•	•	•
7k	9k	12k	18k	-						•	•
7k	12k	12k	12k	-						•	•
7k	12k	18k	18k	-						•	•
9k	9k	9k	9k	-					•	•	•
9k	9k	9k	12k	-					•	•	•
9k	9k	9k	18k	-						•	•
9k	9k	12k	12k	-						•	•
9k	9k	12k	18k	-						•	•
9k	9k	18k	18k	-						•	•
9k	12k	12k	12k	-						•	•
9k	12k	12k	18k	-						•	•
9k	12k	18k	18k	-						•	•
12k	12k	12k	12k	-						•	•
12k	12k	12k	18k	-						•	•
7k	7k	7k	7k	7k							•
7k	7k	7k	7k	9k							•
7k	7k	7k	7k	12k							•
7k	7k	7k	7k	18k							•
7k	7k	7k	9k	9k							•
7k	7k	7k	9k	12k							•
7k	7k	7k	9k	18k							•
7k	7k	7k	12k	12k							•
7k	7k	7k	12k	18k							•
7k	7k	7k	18k	18k							•
7k	7k	9k	9k	9k							•
7k	7k	9k	9k	12k							•
7k	7k	9k	9k	18k							•
7k	7k	9k	12k	12k							•
7k	7k	9k	12k	18k							•
7k	7k	9k	18k	18k							•
9k	9k	9k	9k	9k							•
9k	9k	9k	9k	12k							•
9k	9k	9k	9k	18k							•
9k	9k	9k	12k	12k							•
9k	9k	9k	12k	18k							•
9k	9k	12k	12k	12k							•
9k	12k	12k	12k	12k							•
12k	12k	12k	12k	12k							•

• : Available Combination of Indoor Units  
 - : Not selected Indoor Units  
 Blank : Unavailable Combination

## Eco Design Compact Round Flow Cassette

MODEL		V2MCRI-12/U2MRS-12	V2MCRI-18/U2MRS-18
Cooling Capacity (Btu/h)		12.000 (3.600-14.400)	17.000 (5.400-21.600)
Heating Capacity (Btu/h)		12.000 (3.600-14.400)	18.000 (5.700-22.800)
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	3.5
		Energy Class	A+
		SEER	5.6
	Heating (Middle Zone)	Pdesign (kW)	3.5
		Energy Class	A
		SCOP	3.8
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1
Current Input (A)	Cooling	4.99 (1.01-6.68)	7.09 (1.53-10.06)
	Heating	4.35 (1.03-5.83)	6.68 (1.68-9.47)
Power Input (W)	Cooling	1.090 (233-1.537)	1.550 (351-2.313)
	Heating	950 (237-1.342)	1.460 (386-2.178)
Air Flow Volume (Hi/Med/Low) (m³/h)		800/710/560	800/710/560
Noise level (dB(A))	Indoor unit (High/Low)	47/39	47/39
	Outdoor unit	58	60
Sound Power Level Indoor unit / Outdoor unit (dB(A))		54 / 61	59 / 65
Dimensions WxDxH (mm)	Panel	647x647x50	647x647x50
	Indoor unit	570x570x260	570x570x260
	Outdoor unit	760x285x590	845x320x700
Net Weight Panel/Indoor/Outdoor (kg)		2.5/16/35.5	2.5/18/46
Liquid line / Gas line		1/4" / 3/8"	1/4" / 1/2"
Refrigerant		R410A/1.100g	R410A/1.800g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50
	Heating	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)		71/148/174	58/122/143



V2MCRI, VMCRI & IMCRI



**A++ Energy Class**  
Eco design units

**ALL DC INVERTER**

High technology. DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings

**Excellent Operation**

In extreme weather Conditions without efficiency loss. Colling -15°C-50°C / Heating -15°C-30°C

**Cooling Mode**

In low ambient temperatures, -15°C-50°C

**Steady Operation**

At low outdoor temperature without efficiency loss

**Wide Operation Range**

With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to un smoothly. It also provides accurate control for a comfortable environment and great energy saving

**1 Watt Standby**

Power consumption less than 1 Watt in standby mode saving energy up to 80%

**5 Steps Outdoor Fan Speed**

The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

**Hot Start Operation**

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode



**Sleep Function**

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

**Auto Restart**

Saves the last settings in case of power failure

**Compact Design**

Suitable for easy installations in one standard ceiling tile

**360° Air Outlet**

Creates a soft and gentle air-flow which circulates throughout the room and provides an even temperature distribution

**External Air Duct Outlet**

Flexible air supply due to air outlet slots

**Fresh Air Intake**

For a clean and healthy environment

**Built-In E-Box**

The E-box is simply and safely built inside the indoor unit. This intergraded design provides a more compact body size and makes installation easier. The maintenance of the E-box is simple by opening the air-return grille

**Built-in Drain Pump**

The drain pump can lift the condensing water up to 750mm



**Overflow Pump Indicator**

Indicates the water level in order to empty the water tank on time

**Centralized Control Manager (Optional)**

The centralized controller is a multifunctional device that can control up to 64 indoor units

**i FEEL (Optional)**

The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

**Wired Control (Optional)**

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

**ON-OFF Switch (Optional)**

With the reserved ports, a remote switch can be easily connected to realize remote control

**Error Alarm Port (Optional)**

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

**Low Ambient Cooling (Optional)**

Operation at low outdoor temperature (up to -15°C) in cooling mode

**Auxiliary Electric Heater (Optional)**

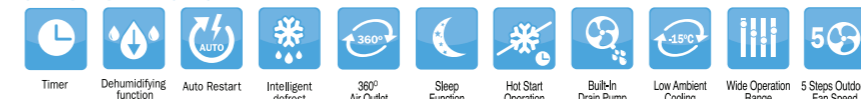
for higher efficiency in heating

## Compact Round Flow Cassette

MODEL		VMCRI-12/UMRS-12	VMCRI-18/UMRS-18	IMCRI-12/UMLS-12	IMCRI-18/UMLS-18
				<b>ON OFF</b>	<b>ON OFF</b>
Cooling Capacity (Btu/h)		12.000(4.800-13.680)	18.000(6.120-19.260)	12.000	18.000
Heating Capacity (Btu/h)		13.000(4.550-15.340)	20.000(4.800-20.800)	12.500	19.500
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	4.71 (1.35-5.43)	7.1 (2.39-9.0)	5.92	9.3
	Heating	4.81 (1.60-6.04)	7.37 (2.43-8.78)	5.4	8.30
Power Input (W)	Cooling	1.030 (310-1.250)	1.550(550-2.070)	1.300	2.150
	Heating	1.050 (370-1.390)	1.610 (560-2.020)	1.175	1.837
EER		3.41	3.40	2.70	2.45
COP		3.63	3.64	3.11	3.11
Air Flow Volume (Hi/Med/Low) (m³/h)		680/600/400	800/710/560	680/600/400	800/710/560
Noise level (dB(A))	Indoor unit (High/Low)	42/38	42/38	41/35	44/38
	Outdoor unit	54	58	55	58
Dimensions WxDxH (mm)	Panel	647x647x50	647x647x50	647x647x50	647x647x50
	Indoor unit	570x570x260	570x570x260	570x570x260	570x570x260
	Outdoor unit	760x285x590	760x285x590	780x250x540	760x285x590
Net Weight Panel/Indoor/Outdoor (kg)		2.5/15.5/37	2.5/18/42	2.5/15/28	2.5/17.5/37
Liquid line / Gas line		1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"
Refrigerant		R410A/1.130g	R410A/1.320g	R410A/960g	R410A/1.400g
Operation Temperature Range (°C)	Cooling	0-50	-15-50	18-43	18-43
	Heating	-15-24	-15-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)		66/149/177	56/149/177	78/161/189	66/149/177

V2MCRI

STANDARD FEATURES



OPTIONAL FEATURES

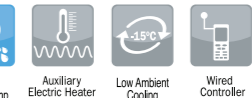


VMCRI & IMCRI

STANDARD FEATURES



OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL		V2MCI-18/U2MRS-18	V2MCI-24/U2MRS-24	V2MCI-30/U2MRS-30	V2MCI-36/U2MRS-36	
Cooling Capacity (Btu/h)		18.000 (5.400-21.600)	24.000 (7.200-28.800)	30.000 (9.000-36.000)	36.000	
Heating Capacity (Btu/h)		18.000 (5.400-21.600)	26.000 (7.800-31.200)	30.000 (9.000-36.000)	40.000	
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	5.3	7.3	8.8	10.5
		Energy Class	A	A++	A++	A
		SEER	5.1	6.5	6.1	5.2
		Annual Power Consumption (kWh/year)	-	-	-	-
	Heating (Middle Zone)	Pdesign (kW)	5.3	8	8.3	10.3
		Energy Class	A	A	A	A
		SCOP	3.8	3.8	3.8	3.8
		Annual Power Consumption (kWh/year)	-	-	-	-
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1	
Current Input (A)	Cooling	7.46 (1.52-8.90)	9.98 (2.37-13.37)	12.59 (2.99-16.87)	15.06	
	Heating	6.64 (1.58-8.90)	9.61 (2.28-12.89)	10.98 (2.61-14.75)	14.87	
Power Input (W)	Cooling	1.630 (349-2.320)	2.180 (544-3.074)	2.750 (687-3.879)	3.290	
	Heating	1.450 (362-2.046)	2.100 (525-2.892)	2.400 (601-3.392)	3.250	
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		1.250/1.050/900	1.780/1.560/1.360	1.850/1.600/1.400	1.850/1.600/1.400	
Noise level (dB(A))	Indoor unit (High/Low)	49/38	50/42	52/42	52/43	
	Outdoor unit	60	60	61	65	
Sound Power Level Indoor unit / Outdoor unit (dB(A))		59 / 65	62 / 69	62 / 70	64 / 70	
Dimensions WxDxH (mm)	Panel	950x950x55	950x950x55	950x950x55	950x950x55	
	Indoor unit	840x840x205	840x840x245	840x840x245	840x840x245	
	Outdoor unit	845x320x700	900x315x860	900x315x860	990x345x965	
Net Weight Panel/Indoor/Outdoor (kg)		5/22/46	5/24/59	5/26.5/59	5/26.5/73	
Liquid line / Gas line		1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant		R410A/1.800g	R410A/2.200g	R410A/2.450g	R410A/2.750g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	
	Heating	-15-24	-15-24	-15-24	-15-24	
Loading Quantity 20'/40'/40 HQ(Set)		58/120/141	42/68/103	33/38/80	33/68/80	

MODEL		V2MCI-36/U2MRT-36	V2MCI-50/U2MRS-50	V2MCI-50/U2MRT-50	V2MCI-60/U2MRT-60	
Cooling Capacity (Btu/h)		36.000	48.000	48.000	58.000	
Heating Capacity (Btu/h)		40.000	50.000	50.000	62.000	
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	10.5	-	-	-
		Energy Class	A	-	-	-
		SEER	5.2	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-	-
	Heating (Middle Zone)	Pdesign (kW)	10.3	-	-	-
		Energy Class	A	-	-	-
		SCOP	3.8	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-	-
Voltage/ Frequency / Phase (V/Hz/Ph)		380/50/3	380/50/3	230/50/1	380/50/3	
Current Input (A)	Cooling	5.68	7.4	19.7	9.1	
	Heating	5.54	6.9	18.6	8.86	
Power Input (W)	Cooling	3.290	4.315	4.315	5.295	
	Heating	3.210	4.035	4.060	5.130	
EER/COP		-	3.26/3.63	3.25/3.61	3.21/3.54	
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		1.850/1.600/1.400	2.200/1.800/1.600	2.200/1.800/1.600	2.250/1.850/1.650	
Noise level (dB(A))	Indoor unit (High/Low)	52/43	56/51/47	56/51/47	56/51/47	
	Outdoor unit	63	63	62	64	
Sound Power Level Indoor unit / Outdoor unit (dB(A))		64 / 70	-	-	-	
Dimensions WxDxH (mm)	Panel	950x950x55	950x950x55	950x950x55	950x950x55	
	Indoor unit	840x840x245	840x840x287	840x840x287	840x840x287	
	Outdoor unit	990x345x965	938x392x1.369	938x392x1.369	938x392x1.369	
Net Weight Panel/Indoor/Outdoor (kg)		5/26.5/77	5/29/102	5/29/99	5/31/107	
Liquid line / Gas line		3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant		R410A/3.000g	R410A/3.800g	R410A/3.600g	R410A/4.600g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	
	Heating	-15-24	-15-24	-15-24	-15-24	
Loading Quantity 20'/40'/40 HQ(Set)		33/68/80	25/53/62	25/53/62	25/52/61	



**A++ Energy Class**  
Eco design units

**ALL DC INVERTER**  
High technology. DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings

**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C-50°C / Heating -15°C-30°C

**Cooling Mode**  
In low ambient temperatures, -15°C-50°C

**Steady Operation**  
At low outdoor temperature without efficiency loss

**Wide Operation Range**  
With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to un smoothly. It also provides accurate control for a comfortable environment and great energy saving

**1 Watt Standby**  
Power consumption less than 1 Watt in standby mode saving energy up to 80%

**5 Steps Outdoor Fan Speed**  
The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Sleep Function**  
Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

**Auto Restart**  
Saves the last settings in case of power failure

**Super Slim Design**  
Smaller indoor unit's height compared to the conventional indoor units

**360° Air Outlet**  
Creates a soft and gentle air-flow which circulates throughout the room and provides an even temperature distribution

**External Air Duct Outlet**  
Flexible air supply due to air outlet slots

**Fresh Air Intake**  
For a clean and healthy environment

**Built-in Drain Pump**  
The drain pump can lift the condensing water up to 750mm

**Overflow Pump Indicator**  
Indicates the water level in order to empty the water tank on time

**Ability to connect with BMS**

**Centralized Control Manager (Optional)**  
The centralized controller is a multifunctional device that can control up to 64 indoor units

**i FEEL (Optional)**  
The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

**Wired Control (Optional)**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

**ON-OFF Switch (Optional)**  
With the reserved ports, a remote switch can be easily connected to realize remote control

**Error Alarm Port (Optional)**  
The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

**Ionizer (Optional)**  
Positive and negative ion generator. When the positive ions and negative ions are neutralized, the ionizer will release tremendous amounts of energy to sterilize the air passing through

**Auxiliary Electric Heater (Optional)**  
for higher efficiency in heating

**Twin Combination (Optional)**  
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

**Touch Screen Wired Controller (Optional)**

**Low Ambient Cooling (Optional)**  
Operation at low outdoor temperature (up to -15°C) in cooling mode

### STANDARD FEATURES









### OPTIONAL FEATURES



# Light Commercial A/C

# Super Slim Round Flow Cassette Your-conditions

## BLUE-LINE RANGE

MODEL	V1MCI-18/U1MRS-18	V1MCI-24/U1MRS-24	V1MCI-30/U1MRS-30	V1MCI-36/U1MRT-36	V1MCI-50/U1MRT-50	V1MCI-60/U1MRT-60	
							
Cooling Capacity (Btu/h)	18.000(5.400-21.600)	24.000(9.600-27.000)	30.000(9.000-36.000)	36.000(14.400-42.310)	46.000(10.600-50.200)	58.000(15.840-54.330)	
Heating Capacity (Btu/h)	19.600(5.880-23.500)	26.000(10.400-29.000)	33.000(9.900-39.600)	38.000(15.200-45.050)	50.000(12.330-52.600)	60.000(17.928-63.786)	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	380/50/3	380/50/3	380/50/3	
Current Input (A)	Cooling	7.51 (1.53-10.09)	9.52 (4.34-12.17)	12.59 (2.99-16.87)	5.7 (2.55-7.41)	7.15 (3.29-9.50)	9.15 (4.12-11.26)
	Heating	7.14 (1.70-9.58)	9.29 (4.56-11.65)	12.31 (2.92-16.49)	5.82 (3.05-7.56)	6.84 (3.13-8.99)	8.29 (3.84-11.02)
Power Input (W)	Cooling	1.640 (352-2.320)	2.160 (1.000-2.800)	2.750(687-3.879)	3.240 (1.450-4.210)	4.160 (1.920-5.460)	5.310 (2.390-6.540)
	Heating	1.560 (390-2.204)	2.060 (1.050-2.680)	2.690(672-3.793)	3.140 (1.650-4.080)	3.980 (1.840-5.230)	4.790 (2.220-6.370)
EER	3.21	3.24	3.2	3.24	3.24	3.2	
COP	3.68	3.69	3.6	3.54	3.68	3.67	
Air Flow Volume (Hi/Med/Low) (m³/h)	1.000/820/700	1.250/1.050/900	1.580/1.200/1.000	2.020/1.700/1.450	2.100/1.750/1.500	2.200/1.800/1.600	
Noise level (dB(A))	Indoor unit (Hi/Med/Lo)	44/32	51/38	46/43	55/47	56/48	56/48
	Outdoor unit	58	58	58	63	63	64
Dimensions WxDxH (mm)	Panel	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
	Indoor unit	840x840x205	840x840x205	840x840x205	840x840x245	840x840x245	840x840x287
	Outdoor unit	760x285x590	845x320x700	900x315x860	990x354x966	938x392x1.369	938x392x1.369
Net Weight Panel/Indoor/Outdoor (kg)	5/21.5/42	5/21.5/52	5/24.5/71	5/24.5/81	5/27/102	5/31/107	
Liquid line / Gas line	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant	R410A/1.320g	R410A/2.100g	R410A/2.400g	R410A/2.600g	R410A/3.800g	R410A/4.600g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)	-	-	-	-	-	-	

MODEL	IMCI-18/UMLS-18	IMCI-24/UMLS-24	IMCI-36/UMLT-36	IMCI-50/UMLT-50	IMCI-60/UMLT-60	
	<b>ON OFF</b>	<b>ON OFF</b>	<b>ON OFF</b>	<b>ON OFF</b>	<b>ON OFF</b>	
Cooling Capacity (Btu/h)	18.000	24.000	36.000	48.000	56.000	
Heating Capacity (Btu/h)	19.000	26.400	38.000	52.000	58.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	380/50/3	380/50/3	380/50/3	
Current Input (A)	Cooling	9.0	11.9	7.0	9.8	11.88
	Heating	7.5	11.2	6.8	9.5	10.6
Power Input (W)	Cooling	2.100	2.600	4.040	5.605	6.810
	Heating	1.735	2.450	3.895	5.420	6.050
EER	2.51	2.71	2.61	2.51	2.41	
COP	3.21	3.16	2.86	2.81	2.81	
Air Flow Volume (Hi/Med/Low) (m³/h)	900/700/550	1.200/1.050/900	1.950/1.650/1.400	2.020/1.700/1.450	2.100/1.750/1.500	
Noise level (dB(A))	Indoor unit (Hi/Med/Lo)	40/37/34	48/46/41	56/53/49	56/53/49	60/54/49
	Outdoor unit	58	59	61	63	63
Dimensions WxDxH (mm)	Panel	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
	Indoor unit	840x840x205	840x840x205	840x840x245	840x840x245	840x840x287
	Outdoor unit	760x285x590	845x320x700	990x345x965	900x350x1.170	900x350x1.170
Net Weight Panel/Indoor/Outdoor (kg)	5/21.5/37	5/23/48	5/26/81	5/27/96	5/29/97	
Liquid line / Gas line	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	
Refrigerant	R410A/1.400g	R410A/1.800g	R410A/2.400g	R410A/3.250g	R410A/3.200g	
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43	18-43	18-43
	Heating	-7-24	-7-24	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	58/120/141	49/102/120	33/68/80	30/63/74	30/62/73	



**+++ Energy Class**  
Eco design units

**DC INVERTER**  
Energy saving with high comfortable levels

**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C~50°C / Heating -15°C~30°C

**Cooling Mode**  
In low ambient temperatures, -15°C~50°C

**Steady Operation**  
At low outdoor temperature without efficiency loss

**Super Slim Design**  
Smaller indoor unit's height compared to the conventional indoor units

**360° Air Outlet**  
Creates a soft and gentle air-flow which circulates throughout the room and provides an even temperature distribution

**External Air Duct Outlet**  
Flexible air supply due to air outlet slots

**Fresh Air Intake**  
For a clean and healthy environment

**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Sleep Function**  
Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep

**Auto Restart**  
Saves the last settings in case of power failure

**Built-in Drain Pump**  
The drain pump can lift the condensing water up to 750mm

**Overflow Pump Indicator**  
Indicates the water level in order to empty the water tank on time

**Ability to connect with BMS**

**Wired Control (Optional)**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

**ON-OFF Switch (Optional)**  
With the reserved ports, a remote switch can be easily connected to realize remote control

**Error Alarm Port (Optional)**  
The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

**Ionizer (Optional)**  
Positive and negative ion generator. When the positive ions and negative ions are neutralized, the ionizer will release tremendous amounts of energy to sterilize the air passing through

**Auxiliary Electric Heater (Optional)**  
for higher efficiency in heating

**Twin Combination (Optional)**  
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

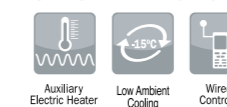
**Touch Screen Wired Controller (Optional)**

**Low Ambient Cooling (Optional)**  
Operation at low outdoor temperature (up to -15°C) in cooling mode

### STANDARD FEATURES



### OPTIONAL FEATURES

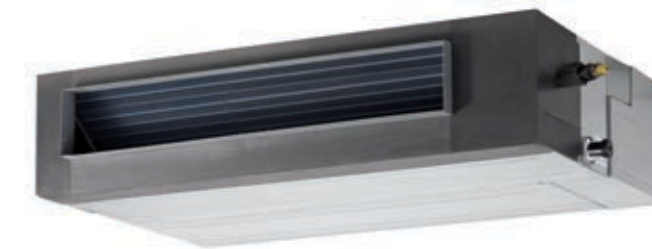




## BLUE-LINE RANGE

MODEL		V2MDI-12/U2MRS-12	V2MDI-18/U2MRS-18	V2MDI-24/U2MRS-24	V2MDI-30/U2MRS-30	
Cooling Capacity (Btu/h)		12.000	18.000	24.000	30.000	
Heating Capacity (Btu/h)		12.000	18.000	26.000	30.000	
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	3.5	5.3	7.2	8.8
		Energy Class	A	A++	A++	A+
		SEER	5.3	6.4	6.7	5.9
	Heating (Middle Zone)	Pdesign (kW)	3.5	5.3	8	8.6
		Energy Class	A	A	A	A
		SCOP	3.8	3.8	3.8	3.8
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1	
Current Input (A)	Cooling	5.03	7.51	10.02	12.54	
	Heating	4.44	6.68	9.66	11.12	
Power Input (W)	Cooling	1.100	1.640	2.190	2.740	
	Heating	970	1460	2.110	2.430	
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		800/610/520	1.400/1.100/1.000	1.700/1.400/1.250	1.850/1.550/1.200	
External Static Pressure (Pa)		40	70	70	80	
Noise level (dB(A))	Indoor unit (High)	41	46	46	50	
	Outdoor unit	58	60	60	61	
Sound Power Level Indoor unit / Outdoor unit (dB(A))		57 / 61	59 / 65	63 / 69	65 / 70	
Dimensions WxDxH (mm)	Indoor unit	700x635x210	920x635x270	920x635x270	1.140x775x270	
	Outdoor unit	760x285x590	845x320x700	900x315x860	900x315x860	
Net Weight Indoor/Outdoor (kg)		18 / 35.5	28 / 46	28 / 59	35 / 59	
Liquid line / Gas line		1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant		R410A / 1.100g	R410A / 1.800g	R410A / 2.200g	R410A / 2.450g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	
	Heating	-15-24	-15-24	-15-24	-15-24	
Loading Quantity 20'/40'/40 HQ(Set)		71/148/170	55/115/132	39/82/95	31/65/71	

MODEL		V2MDI-36/U2MRS-36	V2MDI-36/U2MRT-36	V2MDI-50/U2MRS-50	V2MDI-50/U2MRT-50	V2MDI-60/U2MRT-60
Cooling Capacity (Btu/h)		36.000	36.000	48.000	48.000	58.000
Heating Capacity (Btu/h)		40.000	40.000	50.000	50.000	62.000
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	10.5	10.5	-	-
		Energy Class	A	A	-	-
		SEER	5.4	5.1	-	-
	Heating (Middle Zone)	Pdesign (kW)	10.5	10.5	-	-
		Energy Class	A	A	-	-
		SCOP	3.8	3.8	-	-
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	380/50/3	380/50/3	230/50/1	380/50/3
Current Input (A)	Cooling	15.06	5.68	7.6	20.1	9.1
	Heating	14.87	5.54	6.6	17.6	8.6
Power Input (W)	Cooling	3.290	3.290	4.380	4.400	5.280
	Heating	3.250	3.210	3.850	3.840	5.020
EER/COP		-	-	3.21/3.81	3.2/3.82	3.22/3.62
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		2.270/1.890/1.650	2.270/1.890/1.650	3.010/2.410/1.940	3.010/2.410/1.940	3.010/2.410/1.940
External Static Pressure (Pa)		80	80	100	100	100
Noise level (dB(A))	Indoor unit (High)	43	43	45	45	45
	Outdoor unit	65	63	63	62	64
Sound Power Level Indoor unit / Outdoor unit (dB(A))		63 / 70	64 / 70	-	-	-
Dimensions WxDxH (mm)	Indoor unit	1.200x865x300	1.200x865x300	1.200x865x300	1.200x865x300	1.200x865x300
	Outdoor unit	990x345x965	990x345x965	938x392x1.369	938x392x1.369	938x392x1.369
Net Weight Indoor/Outdoor (kg)		44 / 73	44 / 77	44/102	44/99	45/107
Liquid line / Gas line		3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Refrigerant		R410A / 2.750g	R410A / 3.000g	R410A/3.800g	R410A/3.600g	R410A/4.600g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)		27/59/68	27/59/68	22/46/54	22/46/54	22/46/54



V2MDI



**A++ Energy Class**  
Eco design units



**ALL DC INVERTER**  
High technology. DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings



**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C-50°C / Heating -15°C-30°C



**Cooling Mode**  
In low ambient temperatures, -15°C-50°C



**Steady Operation**  
at low outdoor temperature without efficiency loss



**Wide Operation Range**  
With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to un smoothly. It also provides accurate control for a comfortable environment and great energy saving

**1 Watt Standby**  
Power consumption less than 1 Watt in standby mode saving energy up to 80%

**5 Steps Outdoor Fan Speed**  
The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Sleep Function**  
Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

**Auto Restart**  
Saves the last settings in case of power failure

**Super Slim Design**  
Smaller indoor unit's height compared to the conventional indoor units

**Return Air Intake**  
Flexible air intake from the back or the bottom part of the unit

**Fresh Air Intake**  
For a clean and healthy environment

**Ability to connect with BMS**

**Adjustable Static Pressure Switch**

**Wired Control**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

**Centralized Control Manager (Optional)**  
The centralized controller is a multifunctional device that can control up to 64 indoor units

**i FEEL (Optional)**  
The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

**ON-OFF Switch (Optional)**  
With the reserved ports, a remote switch can be easily connected to realize remote control

**Error Alarm Port (Optional)**  
The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

**Auxiliary Electric Heater (Optional)**  
For higher efficiency in heating

**Twin Combination (Optional)**  
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

**Low Ambient Cooling (Optional)**  
Operation at low outdoor temperature (up to -15°C) in cooling mode

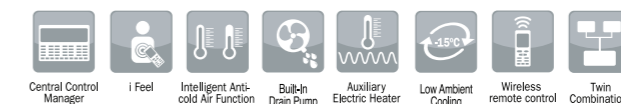
**Built-in Drain Pump (Optional)**  
The drain pump can lift the condensing water up to 750mm

**Remote Controller (Optional)**





### STANDARD FEATURES







### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL	V1MDI-12/U1MRS-12	V1MDI-18/U1MRS-18	V1MDI-24/U1MRS-24	V1MDI-30/U1MRS-30	
					
Cooling Capacity (Btu/h)	12.000 (4.777-13.102)	18.000 (7.233-21.700)	24.000 (9.519-28.524)	30.000 (9.000-36.000)	
Heating Capacity (Btu/h)	13.000 (5.152-15.490)	19.000 (8.188-24.532)	26.000 (10.952-32.890)	32.000 (9.600-38.400)	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1	
Current Input (A)	Cooling	4.48 (2.04-6.17)	7.4 (3.30-9.91)	9.93 (4.34-12.08)	12.4 (2.53-16.66)
	Heating	4.59 (2.13-6.34)	6.9 (3.39-12.3)	9.34 (4.52-13.6)	12.1 (2.85-16.08)
Power Input (W)	Cooling	1.030 (470-1.420)	1.620 (760-2.280)	2.190 (1.000-3.010)	2.710 (582-3.831)
	Heating	1.030 (490-1.460)	1.510 (780-2.830)	2.090 (1.040-3.130)	2.620 (655-3.698)
EER	3.41	3.26	3.21	3.24	
COP	3.61	3.69	3.64	3.58	
Air Flow Volume (Hi/Med/Low) (m³/h)	800/610/520	1.170/770/650	1.400/1.100/1.000	2.250/1.940/1.720	
External Static Pressure (Pa)	40	70	70	80	
Noise level (dB(A))	Indoor unit (Hi/Lo)	41/30	42/30	45/41	48/38
	Outdoor unit	54	58	58	58
Dimensions WxDxH (mm)	Indoor unit	700x635x210	920x635x210	920x635x270	1.140x775x270
	Outdoor unit	760x285x590	760x285x590	845x320x700	900x315x860
Net Weight Indoor/Outdoor (kg)	20/37	23/42	28/52	37/71	
Liquid line / Gas line	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant	R410A/1.130g	R410A/1.320g	R410A/2.100g	R410A/2.400g	
Operation Temperature Range (°C)	Cooling	0-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)	71/148/170	61/133/151	47/107/120	31/65/71	

MODEL	V1MDI-36/U1MRS-36	V1MDI-36/U1MRT-36	V1MDI-50/U1MRT-50	V1MDI-60/U1MRT-60	
					
Cooling Capacity (Btu/h)	36.000 (10.800-43.200)	36.000 (14.057-42.104)	46.000 (15.230-49.658)	58.000 (22.240-60.730)	
Heating Capacity (Btu/h)	38.000 (11.400-45.600)	40.000 (17.128-51.385)	50.000 (17.994-57.983)	60.000 (23.930-63.790)	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	380/50/3	380/50/3	380/50/3	
Current Input (A)	Cooling	14.94(3.55-20.05)	5.7 (2.54-7.7)	7.13 (3.55-9.92)	9.02 (3.98-11.14)
	Heating	14.11(3.35-18.94)	5.69 (2.83-8.53)	6.96 (3.5-9.63)	8.22 (3.79-11.37)
Power Input (W)	Cooling	3.266 (817-4.612)	3.250 (1.450-4.390)	4.130 (2.060-5.750)	5.230 (2.310-6.460)
	Heating	3.085 (771-4.355)	3.250 (1.620-4.870)	4.030 (2.030-5.580)	4.765 (2.200-6.590)
EER	3.23	3.22	3.26	3.25	
COP	3.61	3.6	3.64	3.69	
Air Flow Volume (Hi/Med/Low) (m³/h)	2.270/1.890/1.650	2.270/1.890/1.650	3.010/2.410/1.940	3.150/2.510/1.990	
External Static Pressure (Pa)	80	80	100	100	
Noise level (dB(A))	Indoor unit (Hi/Lo)	50/37	51/38	50/40	51/40
	Outdoor unit	64	63	63	64
Dimensions WxDxH (mm)	Indoor unit	1.140x775x270	1.140x775x270	1.200x865x300	1.200x865x300
	Outdoor unit	990x354x966	990x354x966	938x392x1.369	938x392x1.369
Net Weight Indoor/Outdoor (kg)	39/75	39/81	45/102	45.5/107	
Liquid line / Gas line	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant	R410A/2.650g	R410A/2.600g	R410A/3.800g	R410A/4.600g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)	27/59/68	27/59/68	22/46/54	22/46/54	



### A Energy Class

Eco design units

### DC INVERTER

Energy saving with high comfortable levels

### Excellent Operation

In extreme weather Conditions without efficiency loss.  
Colling -15°C~50°C / Heating -15°C~30°C

### Cooling Mode

In low ambient temperatures, -15°C~50°C

### Steady Operation

at low outdoor temperature without efficiency loss

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Auto Restart

Saves the last settings in case of power failure

### Super Slim Design

Smaller indoor unit's height compared to the conventional indoor units

### Return Air Intake

Flexible air intake from the back or the bottom part of the unit

### Fresh Air Intake

For a clean and healthy environment

### Wired Control

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

### Ability to connect with BMS

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### Centralized Control Manager (Optional)

The centralized controller is a multifunctional device that can control up to 64 indoor units

### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

### Error Alarm Port (Optional)

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

### Auxiliary Electric Heater (Optional)

For higher efficiency in heating

### Twin Combination (Optional)

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

### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15°C) in cooling mode

### Built-in Drain Pump (Optional)

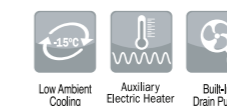
The drain pump can lift the condensing water up to 750mm

### Remote Controller (Optional)

#### STANDARD FEATURES



#### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL	IMDI-12/UMLS-12	IMDI-18/UMLS-18	IMDI-24/UMLS-24	IMDI-30/UMLS-30	IMDI-30/UMLT-30	
	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	
Cooling Capacity (Btu/h)	12.000	18.000	24.000	30.000	30.000	
Heating Capacity (Btu/h)	13.000	18.500	25.500	32.000	32.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1	380/50/3	
Current Input (A)	Cooling	5.31	11.30	13.25	14.18	5.35
	Heating	5.26	8.2	11.8	15.8	6.7
Power Input (W)	Cooling	1.164	2.160	2.845	3.100	3.100
	Heating	1.150	1.810	2.450	3.300	3.290
EER	3.02	2.44	2.47	2.84	2.84	
COP	3.30	3.00	3.05	2.84	3.32	
Air Flow Volume (Hi/Med/Low) (m³/h)	800/610/520	1.170/770/650	1.400/1.100/1.000	2.250/1.940/1.720	2.250/1.940/1.720	
External Static Pressure (Pa)	40	70	70	80	80	
Noise level (dB(A))	Indoor unit (Hi/Lo)	36.9/26.4	44/32.8	41/31	50/42	53/42
	Outdoor unit	55	58	59	64	63
Dimensions WxDxH (mm)	Indoor unit	700x635x210	920x635x210	920x635x270	1.140x775x270	1.140x775x270
	Outdoor unit	780x250x540	760x285x590	845x320x700	990x345x965	990x345x965
Net Weight Indoor/Outdoor (kg)	20 / 28	24 / 37	26.5 / 48	37 / 65	41 / 65	
Liquid line / Gas line	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"	
Refrigerant	R410A / 960g	R410A / 1400g	R410A / 1.800g	R410A / 2.300g	R410A / 2.300g	
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43	18-43	18-43
	Heating	-7-24	-7-24	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	79/164/193	61/133/151	47/107/120	27/59/68	27/59/68	

MODEL	IMDI-36/UMLS-36	IMDI-36/UMLT-36	IMDI-50/UMLT-50	IMDI-60/UMLT-60	
	ON OFF	ON OFF	ON OFF	ON OFF	
Cooling Capacity (Btu/h)	36.000	36.000	48.000	57.000	
Heating Capacity (Btu/h)	39.600	39.600	55.000	60.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	380/50/3	380/50/3	380/50/3	
Current Input (A)	Cooling	18.71	6.7	9.57	11.72
	Heating	15.78	6.1	7.89	7.9
Power Input (W)	Cooling	4.090	4.050	5.540	6.790
	Heating	3.450	3.400	4.570	5.460
EER	2.58	2.61	2.54	2.46	
COP	3.36	3.41	3.53	3.22	
Air Flow Volume (Hi/Med/Low) (m³/h)	2.270/1.890/1.650	2.270/1.890/1.650	3.010/2.410/1.940	3.150/2.510/1.990	
External Static Pressure (Pa)	80	80	100	100	
Noise level (dB(A))	Indoor unit (Hi/Lo)	46/35	48/37	aaaaaa	47/38
	Outdoor unit	61	61	63	63
Dimensions WxDxH (mm)	Indoor unit	1.140x775x270	1.140x775x270	1.200x865x300	1.200x865x300
	Outdoor unit	990x345x965	990x345x965	900x350x1.170	900x350x1.170
Net Weight Indoor/Outdoor (kg)	36.5 / 86	36 / 81	44.5 / 96	47 / 97	
Liquid line / Gas line	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"	
Refrigerant	R410A / 2.600g	R410A / 2.400g	R410A / 3.250g	R410A / 3.200g	
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43	18-43
	Heating	-7-24	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	27/59/68	27/59/68	17/41/59	17/41/59	



IMDI



### Super Slim Design

Smaller indoor unit's height compared to the conventional indoor units

### Return Air Intake

Flexible air intake from the back or the bottom part of the unit

### Fresh Air Intake

For a clean and healthy environment

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Auto Restart

Saves the last settings in case of power failure

### Ability to connect with BMS

### Wired Control

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

### Error Alarm Port (Optional)

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

### Auxiliary Electric Heater (Optional)

For higher efficiency in heating

### Low Ambient Cooling (Optional)

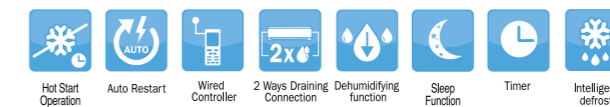
Operation at low outdoor temperature (up to -15°C) in cooling mode

### Built-in Drain Pump (Optional)

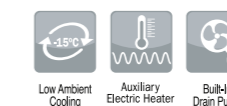
The drain pump can lift the condensing water up to 750mm

### Remote Controller (Optional)

### STANDARD FEATURES



### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL	IMDHI-18/UMLS-18	IMDHI-24/UMLS-24	IMDHI-30/UMLS-30	IMDHI-30/UMLT-30
	ON OFF	ON OFF	ON OFF	ON OFF
Cooling Capacity (Btu/h)	18.000	24.000	30.000	30.000
Heating Capacity (Btu/h)	19.000	26.000	32.000	32.000
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	380/50/3
Current Input (A)	Cooling	9.66	11.49	14.28
	Heating	7.96	11.12	12.26
Power Input (W)	Cooling	2.110	2.510	3.120
	Heating	1.740	2.430	2.680
EER	2.5	2.8	2.82	2.86
COP	3.2	3.14	3.5	3.61
Air Flow Volume (Hi/Med/Low) (m³/h)	1.340/1.150/1.025	1.540/1.310/1.125	2.300/2.010/1.815	2.300/2.010/1.815
External Static Pressure (Pa)	80	90	100	100
Noise level (dB(A))	Indoor unit (Hi/Lo)	42/36	46/38	50/45
	Outdoor unit	58	59	64
Dimensions WxDxH (mm)	Indoor unit	920x635x210	920x635x270	1.140x775x270
	Outdoor unit	760x285x590	845x320x700	990x345x965
Net Weight Indoor/Outdoor (kg)	24 / 37	28 / 48	35 / 65	35.5 / 65
Liquid line / Gas line	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"
Refrigerant	R410A / 1.400g	R410A / 1.800g	R410A / 2.300g	R410A / 2.300g
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43
	Heating	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	66/138/162	51/105/124	30/63/74	30/63/74

MODEL	IMDHI-36/UMLT-36	IMDHI-50/UMLT-50	IMDHI-60/UMLT-60
	ON OFF	ON OFF	ON OFF
Cooling Capacity (Btu/h)	36.000	48.000	55.000
Heating Capacity (Btu/h)	40.000	52.000	60.000
Voltage/ Frequency / Phase (V/Hz/Ph)	380/50/3	380/50/3	380/50/3
Current Input (A)	Cooling	6.82	9.72
	Heating	5.78	7.97
Power Input (W)	Cooling	3.950	5.630
	Heating	3.350	4.620
EER	2.67	2.5	
COP	3.5	3.3	
Air Flow Volume (Hi/Med/Low) (m³/h)	2.300/2.010/1.815	3.500/2.800/2.200	3.500/2.800/2.200
External Static Pressure (Pa)	150	160	
Noise level (dB(A))	Indoor unit (Hi/Lo)	49/44	51/46
	Outdoor unit	61	63
Dimensions WxDxH (mm)	Indoor unit	1.140x775x270	1.200x865x300
	Outdoor unit	990x345x965	900x350x1.170
Net Weight Indoor/Outdoor (kg)	35 / 81	47 / 96	
Liquid line / Gas line	3/8" / 3/4"	3/8" / 3/4"	
Refrigerant	R410A / 2.400g	R410A / 3.250g	
Operation Temperature Range (°C)	Cooling	18-43	18-43
	Heating	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	30/63/74	26/54/63	



IMDHI



### Super Slim Design

Smaller indoor unit's height compared to the conventional indoor units

### Return Air Intake

Flexible air intake from the back or the bottom part of the unit

### Fresh Air Intake

For a clean and healthy environment

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Auto Restart

Saves the last settings in case of power failure

### Ability to connect with BMS

### Wired Control

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleading. It's mainly used for commercial zones and makes air conditioner control more convenient

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

### Error Alarm Port (Optional)

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

### Auxiliary Electric Heater (Optional)

For higher efficiency in heating

### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15°C) in cooling mode

### Built-in Drain Pump (Optional)

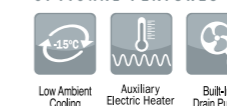
The drain pump can lift the condensing water up to 750mm

### Remote Controller (Optional)



### STANDARD FEATURES



### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL		V2MLI-12/U2MRS-12	V2MLI-18/U2MRS-18
			
Cooling Capacity (Btu/h)		12.000	16.000
Heating Capacity (Btu/h)		12.000	17.000
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	3.6
		<b>Energy Class</b>	<b>A++</b>
		SEER	6.2
	Heating (Middle Zone)	Pdesign (kW)	3.5
		<b>Energy Class</b>	<b>A</b>
		SCOP	3.8
Annual Power Consumption (kWh/year)		230/50/1	230/50/1
Voltage/ Frequency / Phase (V/Hz/Ph)		-	-
Current Input (A)	Cooling	4.99	6.68
	Heating	4.44	6.32
Power Input (W)	Cooling	1.090	1.460
	Heating	970	1.380
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		710/580/450	740/640/560
Noise Level (dB(A))	Indoor unit (High/Low)	46/36	48/40
	Outdoor unit	58	60
Sound Power Level Indoor unit / Outdoor unit (dB(A))		57 / 61	59 / 65
Dimensions WxDxH (mm)	Indoor unit	700x210x600	700x210x600
	Outdoor unit	760x285x590	845x320x700
Net Weight Indoor/Outdoor (kg)		15 / 35.5	15 / 46
Liquid line / Gas line		1/4" / 3/8"	1/4" / 1/2"
Refrigerant		R410A / 1.100g	R410A / 1800g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50
	Heating	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ (Set)		73/153/179	60/125/146

## Eco Design Console Unit



V2MLI

### A++ Energy Class

Eco design units

### ALL DC INVERTER

High technology. DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings

### Excellent Operation

In extreme weather Conditions without efficiency loss. Colling -15°C~50°C / Heating -15°C~30°C

### Cooling Mode

In low ambient temperatures, -15°C~50°C

### Steady Operation

at low outdoor temperature without efficiency loss

### Wide Operation Range

With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to un smoothly. It also provides accurate control for a comfortable environment and great energy saving

### 1 Watt Standby

Power consumption less than 1 Watt in standby mode saving energy up to 80%

### 5 Steps Outdoor Fan Speed

The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Auto Restart

Saves the last settings in case of power failure

### Wide Angle Air Flow

For greater air circulation

### Low Ambient Cooling

Operation at low outdoor temperature (up to -15°C) in cooling mode

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### Double Air Outlet

Air outlet from top and bottom to enjoy fast cooling

### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

### ON-OFF Switch (Optional)

With the reserved ports, a remote switch can be easily connected to realize remote control

### Error Alarm Port (Optional)

The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge



### Healthy Filters (Optional)

#### STANDARD FEATURES



#### OPTIONAL FEATURES

## BLUE-LINE RANGE

MODEL	VMLI-12/UMRS-12	VMLI-18/UMRS-18	IMLI-12/UMLS-12	IMLI-18/UMLS-18	
			<b>ON OFF</b>	<b>ON OFF</b>	
Cooling Capacity (Btu/h)	12.000 (4.777-13.989)	18.000 (5.800-19.448)	12.000	18.000	
Heating Capacity (Btu/h)	14.000 (4.620-16.720)	19.000 (4.947-21.154)	13.380	20.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1	
Current Input (A)	Cooling	4.7 (1.47-5.95)	4.6	7.9	
	Heating	5.15 (1.61-6.17)	7.01 (2.39-9.08)	5.0	8.6
Power Input (W)	Cooling	1.030 (3.40-1.370)	1.630 (520-2.060)	1.013	1.732
	Heating	1.130 (3.70-1.420)	1.540 (550-2.090)	1.083	1.875
EER	3.42	3.25	3.16	3.06	
COP	3.65	3.61	3.25	3.2	
Air Flow Volume (Hi/Med/Low) (m³/h)	550/460/380	740/640/560	550/460/380	740/640/560	
Noise level (dB(A))	Indoor unit (High/Low)	38/28	38/28	44/34	
	Outdoor unit	54	58	55	54
Dimensions WxDxH (mm)	Indoor unit	700x210x600	700x210x600	700x210x600	
	Outdoor unit	760x285x590	760x285x590	780x250x540	845x320x700
Net Weight Indoor/Outdoor (kg)	15/37	15/42	15 / 29.5	15 / 47	
Liquid line / Gas line	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	
Refrigerant	R410A/1.130g	R410A/1.320g	R410A/800g	R410A/1.300g	
Operation Temperature Range (°C)	Cooling	0-50	18-43	18-43	
	Heating	-15-24	-15-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	66/147/173	59/125/140	75/167/184	59/125/140	

## Console Unit



VMLI & IMLI



### A++ Energy Class

Eco design units

### DC INVERTER

Energy saving with high comfortable levels

### Steady Operation

at low outdoor temperature without efficiency loss

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Auto Restart

Saves the last settings in case of power failure

### Wide Angle Air Flow

For greater air circulation

### Low Ambient Cooling

Operation at low outdoor temperature (up to -15°C) in cooling mode

### 2 Ways Draining Connection

The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### Two air-outlet ways

Air outlet from top and bottom to enjoy quick cooling

### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

### ON-OFF Switch (Optional)

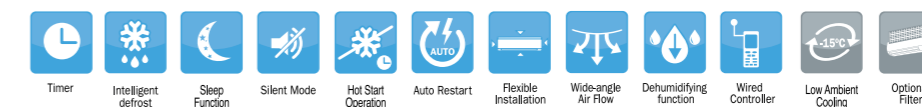
With the reserved ports, a remote switch can be easily connected to realize remote control

### Error Alarm Port (Optional)

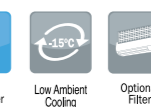
The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge

### Healthy Filters (Optional)

#### STANDARD FEATURES



#### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL		V2MKI-18/U2MRS-18	V2MKI-24/U2MRS-24	V2MKI-30/U2MRS-30	V2MKI-36/U2MRS-36	V2MKI-36/U2MRT-36
Cooling Capacity (Btu/h)		18.000	24.000	30.000	36.000	36.000
Heating Capacity (Btu/h)		18.000	26.000	30.000	40.000	40.000
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	5.3	7.3	8.8	10.5
		Energy Class	A++	A++	A++	A+
		SEER	6.2	6.6	6.3	5.8
	Heating (Middle Zone)	Pdesign (kW)	5.3	8.0	8.6	10.5
		Energy Class	A	A	A	A
		SCOP	3.8	3.8	3.8	3.8
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1	380/50/3
Current Input (A)	Cooling	7.41	10.02	12.54	15.06	5.68
	Heating	6.45	9.38	11.08	14.87	5.59
Power Input (W)	Cooling	1.620	2.190	2.740	3.290	3.290
	Heating	1.410	2.050	2.420	3.250	3.240
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		900/750/600	1.400/1.250/1.100	1.850/1.650/1.450	2.200/1.850/1.500	2.200/1.850/1.500
Noise level (dB(A))	Indoor unit (High/Med/Low)	46/43/40	55/52/49	55	54/49/44	54/49/44
	Outdoor unit	60	60	61	65	63
Sound Power Level Indoor unit / Outdoor unit (dB(A))		60 / 65	63 / 69	64 / 70	65 / 70	65 / 70
Dimensions WxDxH (mm)	Indoor unit	1.068x235x675	1.068x235x675	1.285x235x675	1.650x235x675	1.650x235x675
	Outdoor unit	845x320x700	900x315x860	900x315x860	990x345x965	990x345x965
Net Weight Indoor/Outdoor (kg)		25 / 46	25 / 59	30 / 59	40 / 73	40 / 77
Liquid line / Gas line		1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Refrigerant		R410A / 1.800g	R410A / 2.200g	R410A / 2.450g	R410A / 2.750g	R410A / 3.000g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)		50/100/119	40/86/92	32/67/79	27/57/67	27/57/67

MODEL		V2MKI-50/U2MRS-50	V2MKI-50/U2MRT-50	V2MKI-60/U2MRT-60
Cooling Capacity (Btu/h)		48.000	48.000	58.000
Heating Capacity (Btu/h)		50.000	50.000	62.000
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	-	-
		Energy Class	-	-
		SEER	-	-
	Heating (Middle Zone)	Pdesign (kW)	-	-
		Energy Class	-	-
		SCOP	-	-
Voltage/ Frequency / Phase (V/Hz/Ph)		380/50/3	230/50/1	380/50/3
Current Input (A)	Cooling	7.5	19.8	8.6
	Heating	6.9	18.4	8.7
Power Input (W)	Cooling	4.340	4.330	4.980
	Heating	4.010	4.010	5.030
EER/COP		3.24/3.65	3.25/3.65	3.3/3.61
Air Flow Volume (Hi/Med/Low) (m <sup>3</sup> /h)		2.300/1.900/1.700	2.300/1.900/1.700	2.300/1.900/1.700
Noise level (dB(A))	Indoor unit (High/Med/Low)	57/54/52	57/54/52	56/53/51
	Outdoor unit	63	62	64
Sound Power Level Indoor unit / Outdoor unit (dB(A))		-	-	-
Dimensions WxDxH (mm)	Indoor unit	1.650x675x235	1.650x675x235	1.650x675x235
	Outdoor unit	938x392x1.369	938x392x1.369	938x392x1.369
Net Weight Indoor/Outdoor (kg)		40/102	40/99	40/107
Liquid line / Gas line		3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Refrigerant		R410A/3.800g	R410A/3.600g	R410A/4.600g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)		27/57/67	27/57/67	27/57/67



**A++ Energy Class**  
Eco design units

**ALL DC INVERTER**  
High technology. DC INVERTER compressor and indoor / outdoor fan motors for the best efficiency in extreme weather conditions and maximum energy savings

**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C~50°C / Heating -15°C~30°C

**Cooling Mode**  
In low ambient temperatures, -15°C~50°C

**Steady Operation**  
at low outdoor temperature without efficiency loss

**Wide Operation Range**  
With up to 25 stages (F1-F25) compressor frequency. The frequency range is increased as much as 70%, allowing the system to un smoothly. It also provides accurate control for a comfortable environment and great energy saving

**1 Watt Standby**  
Power consumption less than 1 Watt in standby mode saving energy up to 80%

**5 Steps Outdoor Fan Speed**  
The outdoor DC fan motor speed increased from 2 steps to 5, delivering significantly higher efficiency

**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Sleep Function**  
Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

**Auto Restart**  
Saves the last settings in case of power failure

**3D Air Flow**  
Combines vertical and horizontal auto swing to ensure an even distribution of air throughout the room

**2 Ways Draining Connection**  
The drainage hose can be connected in both left and right side of the indoor unit for easy installation

**Low Ambient Cooling**  
Operation at low outdoor temperature (up to -15°C) in cooling mode

**Built-in Drain Pump (Optional)**  
The drain pump can lift the condensing water up to 750mm

**Healthy Filters (Optional)**  
**Centralized Control Manager (Optional)**  
The centralized controller is a multifunctional device that can control up to 64 indoor units

**i FEEL (Optional)**  
The indoor temperature sensor is located on the remote control, in order for the unit to operate according to the needs of your body

**Wired Control (Optional)**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

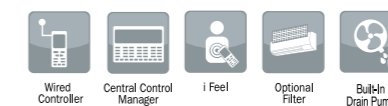
**ON-OFF Switch (Optional)**  
With the reserved ports, a remote switch can be easily connected to realize remote control

**Error Alarm Port (Optional)**  
The built-in PCB can output an alarm signal, which allows setting up an external alarm light or vibration gauge





### STANDARD FEATURES







### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL	VMKI-12/UMRS-12	VMKI-18/UMRS-18	VMKI-24/UMRS-24	VMKI-30/UMRS-30
				
Cooling Capacity (Btu/h)	12.000 (4.800-14.000)	18.000 (5.500-20.000)	24.000 (7.000-27.000)	30.000 (9.000-36.000)
Heating Capacity (Btu/h)	13.000 (4.580-15.920)	20.000 (5.000-21.000)	25.000 (7.500-30.000)	32.000 (9.600-38.400)
Voltage/ Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	4.71 (1.48-5.96)	7.41 (2.39-10.86)	9.67 (4.35-12.18)
	Heating	4.8 (1.35-5.83)	7.05 (3.04-10.21)	8.92 (4.57-11.31)
Power Input (W)	Cooling	1.030 (340-1.370)	1.620 (550-2.500)	2.180 (1.000-2.800)
	Heating	1.050 (310-1.340)	1.590 (700-2.350)	1.980 (1.050-2.600)
EER	3.41	3.25	3.22	3.24
COP	3.63	3.68	3.7	3.68
Air Flow Volume (Hi/Med/Low) (m³/h)	584/518/463	1.300/1.050/900	1.400/1.200/1.000	1.800/1.600/1.350
Noise level (dB(A))	Indoor unit (High/Low)	42/33	52/41	53/41
	Outdoor unit	54	58	58
Dimensions WxDxH (mm)	Indoor unit	990x203x660	1.068x235x675	1.068x235x675
	Outdoor unit	760x285x590	760x285x590	845x320x700
Net Weight Indoor/Outdoor (kg)	25/37	24/42	25/52	30/71
Liquid line / Gas line	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"
Refrigerant	R410A/1130g	R410A/1.320g	R410A/2.100g	R410A/2.400g
Operation Temperature Range (°C)	Cooling	0-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ (Set)	-	59/122/143	50/103/121	40/83/97

MODEL	VMKI-36/UMRT-36	VMKI-36/UMRS-36	VMKI-50/UMRT-50	VMKI-60/UMRT-60
				
Cooling Capacity (Btu/h)	36.000 (10.800-45.000)	36.000 (10.800-43.200)	47.000 (11.000-53.000)	58.000 (20.000-63.000)
Heating Capacity (Btu/h)	40.000 (12.500-48.000)	36.000 (10.800-43.200)	50.000 (13.000-55.000)	60.000 (17.000-70.000)
Voltage/ Frequency / Phase (V/Hz/Ph)	380/50/3	230/50/1	380/50/3	380/50/3
Current Input (A)	Cooling	5.53 (3.88-9.59)	14.87 (3.02-19.93)	7.4 (4.20-10.71)
	Heating	5.4 (4.01-8.89)	13.5 (3.2-18.09)	6.56 (3.49-9.44)
Power Input (W)	Cooling	3.200 (2.250-5.550)	3.250 (696-4.583)	4.290 (2.440-6.090)
	Heating	3.160 (2.350-5.200)	2.950 (737-4.161)	3.800 (2.020-5.470)
EER	3.28	3.25	3.21	3.2
COP	3.7	3.58	3.86	3.63
Air Flow Volume (Hi/Med/Low) (m³/h)	1.800/1.600/1.350	1.800/1.600/1.350	2.300/1.900/1.700	2.300/1.900/1.700
Noise level (dB(A))	Indoor unit (High/Low)	54/45	54/45	54/46
	Outdoor unit	63	64	64
Dimensions WxDxH (mm)	Indoor unit	1.285x235x675	1.285x235x675	1.650x235x675
	Outdoor unit	990x354x966	990x354x966	938x392x1.369
Net Weight Indoor/Outdoor (kg)	30/81	30/75	38/102	38/107
Liquid line / Gas line	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Refrigerant	R410A/2.600g	R410A/2.650g	R410A/3.800g	R410A/4.600g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ (Set)	32/67/79	32/67/79	22/47/55	22/47/55



**A Energy Class**  
Eco design units



**DC INVERTER**  
Energy saving with high comfortable levels



**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C-50°C / Heating -15°C-30°C



**Cooling Mode**  
In low ambient temperatures, -15°C-50°C

**Steady Operation**  
at low outdoor temperature without efficiency loss

**Hot Start Operation**  
The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Sleep Function**  
Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

**Auto Restart**  
Saves the last settings in case of power failure

**3D Air Flow**  
Combines vertical and horizontal auto swing to ensure an even distribution of air throughout the room

**Built-in Drain Pump (Optional)**  
The drain pump can lift the condensing water up to 750mm

**Healthy Filters (Optional)**

**2 Ways Draining Connection (Optional)**  
The drainage hose can be connected in both left and right side of the indoor unit for easy installation

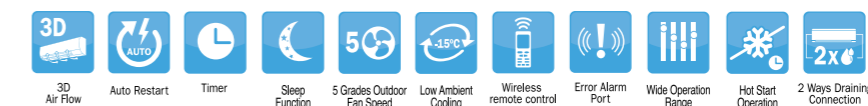
**Low Ambient Cooling (Optional)**  
Operation at low outdoor temperature (up to -15°C) in cooling mode

**Auxiliary Electric Heater (Optional)**  
For higher efficiency in heating

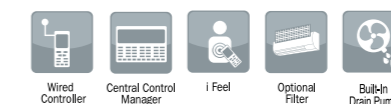
**Wired Control (Optional)**  
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

**Centralized Control Manager (Optional)**  
The centralized controller is a multifunctional device that can control up to 64 indoor units

### STANDARD FEATURES



### OPTIONAL FEATURES





## BLUE-LINE RANGE

MODEL		IMKI-12/UMLS-12	IMKI-18/UMLS-18	IMKI-24/UMLS-24	IMKI-36/UMLS-36
		ON OFF	ON OFF	ON OFF	ON OFF
Cooling Capacity (Btu/h)		12.000	18.000	24.000	36.000
Heating Capacity (Btu/h)		13.000	19.000	26.000	40.000
Voltage/ Frequency / Phase (V/Hz/Ph)		230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)	Cooling	5.13	9.25	13	20.0
	Heating	5.3	8.3	12	19.5
Power Input (W)	Cooling	1.120	2.020	2.840	4.300
	Heating	1.160	1.850	2.470	4.220
EER		3.14	2.61	2.48	2.45
COP		3.28	3.01	3.09	2.78
Air Flow Volume (Hi/Med/Low) (m³/h)		600/480/400	1.300/1.050/900	1.400/1.200/1.000	1.750/1.400/1.250
Noise level (dB(A))	Indoor unit (Hi/Med/Lo)	44/42/39	52/46/41	53/48/42	53/48/44
	Outdoor unit	55	58	59	61
Dimensions WxDxH (mm)	Indoor unit	990x203x660	1.068x235x675	1.068x235x675	1.285x235x675
	Outdoor unit	780x250x540	760x285x590	845x320x700	990x345x965
Net Weight Indoor/Outdoor (kg)		22 / 28	24 / 37	24 / 48	29 / 86
Liquid line / Gas line		1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 3/4"
Refrigerant		R410A/960g	R410A/1.400g	R410A/1.800g	R410A/2.600g
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43	18-43
	Heating	-7-24	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)		-	59/129/151	59/122/143	32/67/79

MODEL		IMKI-36/UMLT-36	IMKI-50/UMLT-50	IMKI-60/UMLT-60
		ON OFF	ON OFF	ON OFF
Cooling Capacity (Btu/h)		36.000	48.000	57.000
Heating Capacity (Btu/h)		39.500	51.000	60.000
Voltage/ Frequency / Phase (V/Hz/Ph)		380/50/3	380/50/3	380/50/3
Current Input (A)	Cooling	7.0	9.0	10.87
	Heating	6.5	8.8	9.6
Power Input (W)	Cooling	3.980	5.400	6.630
	Heating	3.700	5.200	5.800
EER		2.65	2.61	2.52
COP		3.13	2.87	3.03
Air Flow Volume (Hi/Med/Low) (m³/h)		1.750/1.400/1.250	1.750/1.400/1.250	2.300/1.800/1.600
Noise level (dB(A))	Indoor unit (Hi/Med/Lo)	53/48/44	53/48/44	55/49/46
	Outdoor unit	61	63	63
Dimensions WxDxH (mm)	Indoor unit	1.285x235x675	1.285x235x675	1.650x235x675
	Outdoor unit	990x345x965	900x350x1.170	900x350x1.170
Net Weight Indoor/Outdoor (kg)		29 / 81	31 / 96	39 / 97
Liquid line / Gas line		3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
Refrigerant		R410A/2.400g	R410A/3.250g	R410A/3.200g
Operation Temperature Range (°C)	Cooling	18-43	18-43	18-43
	Heating	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)		32/67/79	30/63/74	27/57/67



**U-MATCH**

**R410A**

### 3D Air Flow

Combines vertical and horizontal auto swing to ensure an even distribution of air throughout the room

### Auto Restart

Saves the last settings in case of power failure

### Hot Start Operation

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

### Sleep Function

Sleep mode saves energy by gradually increasing (summer) or decreasing (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

### Built-in Drain Pump (Optional)

The drain pump can lift the condensing water up to 750mm

### Healthy Filters (Optional)

**2 Ways Draining Connection (Optional)**  
The drainage hose can be connected in both left and right side of the indoor unit for easy installation

### Low Ambient Cooling (Optional)

Operation at low outdoor temperature (up to -15°C) in cooling mode

### Auxiliary Electric Heater (Optional)

For higher efficiency in heating

### Wired Control (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. It's mainly used for commercial units and makes air conditioner control more convenient

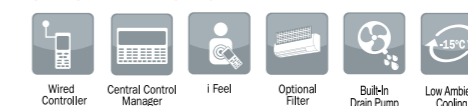
### Centralized Control Manager (Optional)

The centralized controller is a multifunctional device that can control up to 64 indoor units






### STANDARD FEATURES




### OPTIONAL FEATURES



## BLUE-LINE RANGE

MODEL	V2MFI-50/V2MFO-50	V2MFI-66/V2MFO-66	V1MFI-24/V1MFO-24	V1MFI-36/V1MFO-36	V1MFI-50/V1MFO-50	
						
Cooling Capacity (Btu/h)	48.000	55.000	24.000	36.000	48.000	
Heating Capacity (Btu/h)	50.000+12.000	58.000+12.000	25.000+7.000	38.000+12.000	50.000+12.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	380/50/3	380/50/3	230/50/1	380 / 50 / 3	380/50/3	
Current Input (A)	Cooling	7.9	11.0	10.9	8.00	7.4
	Heating	6.9	9.0	9.4	7.3	7.2
Power Input (W)	Cooling	4.680	6.500	2.512	4.395	4.289
	Heating	4.059+3.500	5.312+3.500	2.155	3.978+3.500	4.174
EER	3.00	2.48	2.80	2.40	3.28	
COP	3.61	3.20	3.40	2.80	3.51	
Air Flow Volume (Hi/Med/Low) (m³/h)	2.150/1.850/1.500	2.150/1.850/1.500	1.000/830	1.700/-/1.410	2.300/2.130/1.250	
Noise level (dB(A))	Indoor unit (Hi/Lo)	58 / 49	58 / 49	51/47	56/52	60/57
	Outdoor unit	62	62	58	62	63
Dimensions WxDxH (mm)	Indoor unit	610x390x1.925	610x390x1.925	510x240x1.695	550x350x1.800	610x390x1.925
	Outdoor unit	938x392x1.369	938x392x1.369	845x320x700	990x345x965	938x392x1.369
Net Weight Indoor/Outdoor (kg)	69.3 /102	69.6 /107	35 / 52	53 / 81	62 / 102	
Liquid line / Gas line	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	
Refrigerant	R410A/3.800g	R410A/4.600g	R410A/2.100g	R410A/2.600g	R410A/3.800g	
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24	-15-24	-15-24
Loading Quantity 20'/40'/40 HQ(Set)	16/34/38	16/34/38	38/80/93	22/46/54	21/43/51	

MODEL	V1MFI-66/V1MFO-66	RMFI-24/RMFO-24	RMFI-50/RMFO-50	RMFI-66/RMFO-66	
		<b>ON OFF</b>	<b>ON OFF</b>	<b>ON OFF</b>	
Cooling Capacity (Btu/h)	55.000	24.000	42.000	53.500	
Heating Capacity (Btu/h)	58.000+12.000	27.000+7.200	49.000+12.000	56.500+12.000	
Voltage/ Frequency / Phase (V/Hz/Ph)	380/50/3	230/50/1	380/50/3	380/50/3	
Current Input (A)	Cooling	8.4	12.2	8.5	10.5
	Heating	8.2	11.5+10.0	8.7+3.6	9.8+5.3
Power Input (W)	Cooling	4.944	2.580	5.100	6.200
	Heating	4.497	2.450+2.200	5.200+3.500	5.700+3.500
EER	3.26	2.73	2.41	2.53	
COP	3.78	3.23	2.76	2.91	
Air Flow Volume (Hi/Med/Low) (m³/h)	2.300/2.130/1.250	970/800	1.750/1.450	2.200/2.040/1.200	
Noise level (dB(A))	Indoor unit (Hi/Lo)	60/57	50/46	54/50	59/55
	Outdoor unit	62	58	62	62
Dimensions WxDxH (mm)	Indoor unit	610x390x1.925	510x240x1.695	550x350x1.800	600x358x1.900
	Outdoor unit	938x392x1.369	845x320x700	900x350x1.170	900x350x1.170
Net Weight Indoor/Outdoor (kg)	63 / 107	34.5 / 52.5	50 / 97	65/96	
Liquid line / Gas line	3/8" / 5/8"	3/8" / 5/8"	1/2"/3/4"	1/2" / 3/4"	
Refrigerant	R410A/4.600g	R410A/1.800g	R410A/3.300g	R410A/3.200g	
Operation Temperature Range (°C)	Cooling	-15-50	18-43	18-43	18-43
	Heating	-15-24	-7-24	-7-24	-7-24
Loading Quantity 20'/40'/40 HQ(Set)	21/43/51	36/78/91	17/37/49	20/45/56	

V1MFI & RMFI



RMFI-66



**Advanced DC INVERTER Technology**  
Energy saving and higher comfort levels

**Excellent Operation**  
In extreme weather Conditions without efficiency loss.  
Colling -15°C-50°C / Heating -15°C-30°C

**Cooling Mode**  
In low ambient temperatures, -15°C-50°C

**Steady Operation**  
At low outdoor temperature without efficiency loss

**Built-in Electric Heater**  
For higher efficiency in heating

**Self-Diagnosis Function**

In case of abnormal operation, the unit will shut down automatically to protect the system. Meanwhile it will indicate a protection or an error code on the display for fast service

**Hot Start Operation**

The indoor coil sensor controls the indoor fan and prevents cold air from entering the room during start up in heating mode

**Auto mode function**  
For ideal indoor environment

**High air flow**

**Quiet Design**

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation

**MITSUBISHI compressor**

**Golden Fin**

Effectively prevents bacteria breeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

### STANDARD FEATURES



### OPTIONAL FEATURES

## Dehumidifier

Reduces effectively the humidity levels, ideal for commercial and residential spaces with poor ventilation

NOTES

Quality of life



DE-MDT

**Water Level Display**  
Auto pause of the operation when the tank is full

**LED Digital Display**  
Displays the environment's humidity ratio and through the control pad you may adjust all the settings

**Defrost indication**  
During the defrost cycle

**Continuous Defrost**  
Ideal solution for spaces with various needs

**Auto error diagnosis**

**Auto Restart**

**Capability of continuous drainage**

MODEL	DE-MDT-10	DE-MDT-20
Dehumidifying Capacity (L/24h)	10	20
Voltage / Frequency / Phase (V/Hz/Ph)	230/50/1	230/50/1
Power Input (W)	220	555
Current Input (A)	1.3	3.0
Water Tank Volume (L)	1.3	3.5
Air flow (m3/h)	130	165
Noise Level (dB(A))	46	50
Dimensions WxDxH (mm)	330x260x420	380x300x480
Net Weight (kg)	10.5	13.5
Refrigerant	R134a/90g	R134a/115g
Applicable room area (m2)	16-31	37-52

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**inventor** the Full Range Supplier of  
Air Conditioners and Air Conditioning Solutions

BLUE-LINE RANGE

Heat Pumps for domestic use

## Heating - Cooling - Hot Water!

A++, ALL DC Inverter, Units for Maximum Efficiency in Heating and Cooling



Residential Refrigerators

## Fresh Life

Energy Class A+

Freezers

## Maximum Energy Efficiency A+

4 Star Freezer



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NOTES: Technical data may alter without prior notice. Please contact your dealer

Cooling and Heating capacities refer to the following conditions

COOLING:  $\frac{\text{Room temperature: } 27^{\circ}\text{C DB}/19^{\circ}\text{C WB}}{\text{Outdoor temperature: } 35^{\circ}\text{C DB}/24^{\circ}\text{C WB}}$  HEATING:  $\frac{\text{Room temperature: } 20^{\circ}\text{C DB}/15^{\circ}\text{C WB}}{\text{Outdoor temperature: } 7^{\circ}\text{C DB}/6^{\circ}\text{C WB}}$

**inventor** Company is not responsible for any misprinted data