inventor

Your-conditions

A++ ECO DESIGN All DC INVERTER

Residential & Light Commercial A/C Units

2014 BLUE-LINE CATALOGUE

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!

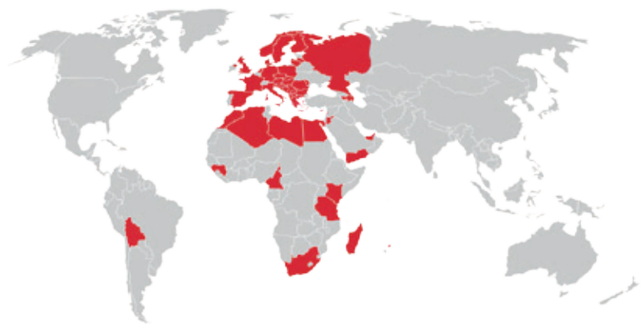
Our Mission!

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

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



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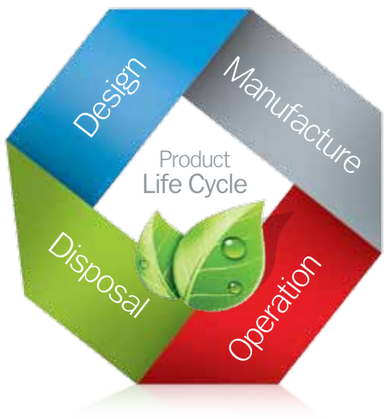
CE ISO 9001 ISO 14001 RoHS COMPLIANT 2002/95/EC

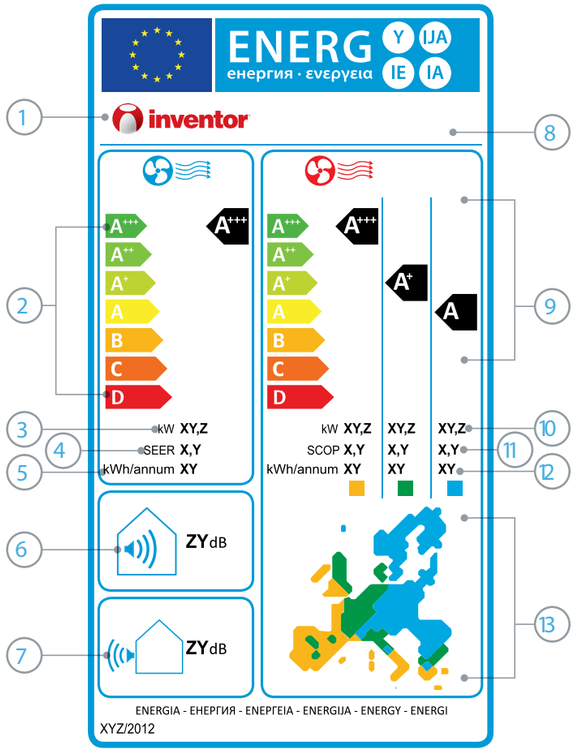


Eco Design

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



1. Brand Name
2. Energy classification in cooling mode, A+++ the most efficient
3. Cooling Capacity
4. 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
5. Annual power consumption in cooling mode
6. Sound Power Level (dB) indoor unit
7. Sound Power Level (dB) outdoor unit
8. Indoor's and outdoor's units model name
9. Energy classification in Heating mode*
10. Heating Capacity*
11. 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 the climate profile chosen in kWh/a*
12. Annual power consumption in heating mode*
13. European map divided into 3 climate zones

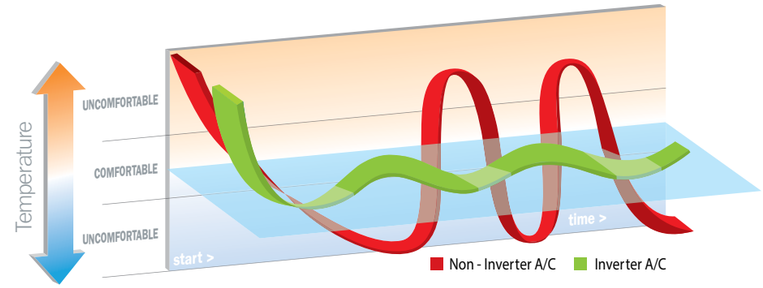
- Warm zone
- Average zone
- Cold zone

** Only average climate zone data are obligatory to be written*

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

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%

Self diagnosis
Auto error diagnosis makes maintenance easier

Turbo Function
To reach the desired indoor temperature quickly

Auto restart
Unit restores previous functions after a power loss

Eco Design Mini Split DC Inverter R410A

MODEL			P2MVI-09/P2MV0-09	P2MVI-12/P2MV0-12	P2MVI-18/P2MV0-18	P2MVI-24/P2MV0-24
			ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER	DC INVERTER
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
		Annual Power Consumption (kWh/year)	149	183	279	367
	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)	840	1.120	1.575	1.820
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^3/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

Alternative Panels for Exports

PASSION AP1

PASSION AP2

P2 MVI

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

Back - Lit Display

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

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

Auto Restart
Saves the last settings in case of power failure

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

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

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 neutralities 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 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

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 misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

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
			ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER
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^3/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

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 -15ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode in low ambient temperatures, -15ºC~50ºC

Back - Lit Display

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

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

Auto Restart
Saves the last settings in case of power failure

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

I FEEL (Optional)
The indoor temperature sensor is located on the remote controller, 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 neutralities 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 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

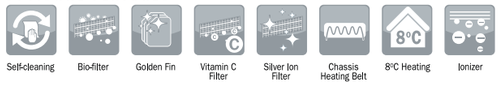
Self-Cleaning (Optional)
Protects the inner parts of the unit from mold and eliminates odors in cooling mode

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 misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

STANDARD FEATURES

OPTIONAL FEATURES



Eco Design Mini Split DC Inverter R410A

MODEL			EMVI-09/EMV0-09	EMVI-12/EMV0-12	EMVI-18/EMV0-18	EMVI-24/EMV0-24
			ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER	DC INVERTER
Cooling Capacity (Btu/h)			9.700 (2.910-11.640)	13.000 (3.900-15.600)	18.000 (5.400-21.600)	24.000 (12.000-26.000)
Heating Capacity (Btu/h)			10.000 (3.000-12.000)	13.000 (3.900-15.600)	18.500 (5.550-22.200)	25.000 (12.000-27.000)
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	2.9	3.7	5.1	7.5
		Energy Class	A++	A++	A++	A+
		SEER	7.0	6.3	6.9	5.8
		Annual Power Consumption (kWh/year)	145	206	259	453
	Heating (Middle Zone)	Pdesign (kW)	3.0	3.7	5.2	6.5
		Energy Class	A+	A+	A	A
		SCOP	4.0	4.0	3.9	3.8
		Annual Power Consumption (kWh/year)	1.050	1.295	1.867	2.395
Voltage/ Frequency / Phase (V/Hz/Ph)			230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)		Cooling	3.2 (0.68-4.49)	5.1 (1.28-7.24)	7.0 (1.79-10.09)	9.5 (3.5-11.7)
		Heating	3.3 (0.81-4.60)	4.0 (0.99-5.58)	5.9 (1.47-8.32)	8.8 (3.5-12.0)
Power Input (W)		Cooling	730 (157-1.032)	1.180 (295-1.665)	1.640 (411-2.320)	2.190 (800-2700)
		Heating	750 (187-1.058)	910 (227-1.284)	1.355 (339-1.914)	2.030 (800-2750)
Air Flow Volume (Hi/Med/Low) (m^3/h)			530/460/350	630/490/380	1.000/780/650	1.450/1.280/1.050
Noise Level (dB(A))		Indoor Unit (High/Low)	40/37/28	41/37/28	47/40/34	51/48/45
		Outdoor Unit	57	55	58	61
Sound Power Level Indoor unit / Outdoor unit (dB(A))			52/59	56/63	56/61	63/67
Dimensions WxDxH (mm)		Indoor unit	750x198x280	835x198x280	990x218x315	1.186x258x340
		Outdoor unit	760x285x590	760x285x590	760x285x590	845x320x700
Net weight Indoor/Outdoor (kg)			7/35	9/35	12/36	16/50
Compressor Type			ROTARY	ROTARY	ROTARY	ROTARY
Liquid line / Gas line			1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
Refrigerant			R410A/1.100g	R410A/1.100g	R410A/1.250g	R410A/2.250g
Operation Temperature Range (°C)		Cooling	0~50	0~50	0~50	0~50
		Heating	-15~30	-15~30	-15~30	-15~30
Loading Quantity 20'/40'/40 HQ (Set)			96/207/242	96/206/239	83/173/208	58/126/141

A++ ECO DESIGN ALL DC INVERTER R410A (Optional) iFEEL

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 0 °C~50°C / Heating -15°C~30°C

Cooling Mode in low ambient temperatures, 0°C~50°C

Back - Lit Display

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

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

Auto Restart
Saves the last settings in case of power failure

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

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 neutralities 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 (Optional)
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 weather

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

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

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

STANDARD FEATURES

OPTIONAL FEATURES

Eco Design Mini Split DC Inverter R410A

MODEL			SMVI-09/SMVO-09	SMVI-12/SMVO-12	SMVI-18/SMVO-18	SMVI-24/SMVO-24
			DC INVERTER	DC INVERTER	ALL DC INVERTER	DC INVERTER
Cooling Capacity (Btu/h)			9.500(2.850-11.400)	12.000(3.600-14.400)	18.000(5.400-11.600)	24.000(7.200-28.800)
Heating Capacity (Btu/h)			9.500(2.850-11.400)	12.000(3.600-14.400)	18.500(5.550-22.200)	25.000(7.500-30.000)
Seasonal Efficiency (In accordance to EN14825)	Cooling	Pdesign (kW)	2.8	3.3	5.1	6.4
		Energy Class	A	A	A++	A+
		SEER	5.5	5.5	6.5	5.9
		Annual Power Consumption (kWh/year)	178	210	275	380
	Heating (Middle Zone)	Pdesign (kW)	2.2	2.7	4.7	5.9
		Energy Class	A	A	A	A
		SCOP	3,8	3,8	3,8	3.8
		Annual Power Consumption (kWh/year)	811	995	1695	2174
Voltage/ Frequency / Phase (V/Hz/Ph)			230/50/1	230/50/1	230/50/1	230/50/1
Current Input (A)		Cooling	3.74(0.79-5.18)	4.63(1.17-6.58)	7.0(1.79-10.09)	9.4(2.37-13.37)
		Heating	3.13(0.79-4.47)	4.19(1.05-5.93)	6.0(1.49-8.43)	8.83(2.21-12.46)
Power Input (W)		Cooling	843(181-1.191)	1.072(268-1.514)	1.640(411-2.320)	2.175(544-3.074)
		Heating	728(182-1.029)	966(242-1.364)	1.372(343-1.938)	2.030(507-2.865)
Air Flow Volume (Hi/Med/Low) (m^3/h)			400/330/270	500/430/380	850/780/630	1.100/1.050/900
Noise Level (dB(A))		Indoor unit (High/Low)	37/32/27	40/36/32	41/36/31	51/46/44
		Outdoor unit	56	55	58	59
Sound Power Level Indoor unit / Outdoor unit (dB(A))			55/63	54/63	56/65	63/68
Dimensions WxDxH (mm)		Indoor unit	710x190x250	790x198x265	920x223x292	998x240x322
		Outdoor unit	780x250x540	780x250x540	760x285x590	845x320x700
Net Weight Indoor/Outdoor (kg)			6.5 /29.5	8/29.5	11/35	12.5 /48
Compressor Type			ROTARY	ROTARY	ROTARY	ROTARY
Liquid line / Gas line			1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"
Refrigerant			R410A/730g	R410A/800g	R410A/1.250g	R410A/1.950g
Operation Temperature Range (°C)		Cooling	0~50	0~50	0~50	0~50
		Heating	-15~30	-15~30	-15~30	-15~30
Loading Quantity 20'/40'/40 HQ (Set)			121/251/285	113/232/266	89/182/215	68/138/155

A++ ECO DESIGN ALL DC INVERTER R410A (Optional) iFEEL

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 0ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode
in low ambient temperatures, 0ºC~50ºC

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

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%

Sleep Function
Sleep mode saves energy by gradually warming (summer) or cooling (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

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

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

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 neutralities 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 (Optional)
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

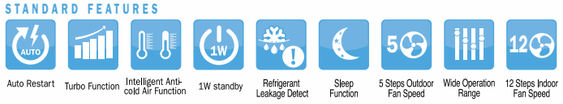
8°C Heating (Optional)
In the heating mode, the preset temperature of the air conditioner can be as low as 8°C. This allows a steady room temperature and prevents the house from freezing when it is unoccupied for a long time in severe cold weather

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

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

STANDARD FEATURES



OPTIONAL FEATURES

Mini Split R410A Unit

MODEL		0MI-09 / 0M0-09	0MI-12 / 0M0-12	0MI-18 / 0M0-18	0MI-24 / 0M0-24
		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) (m^3/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

Alternative Panels for Exports

ORBIT AP1

ORBIT AP2

Sleep Function
Sleep mode saves energy by gradually warming (summer) or cooling (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 (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

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 neutralities 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 (Optional)
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 weather

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

STANDARD FEATURES

Turbo Function · Auto swing louver · Sleep Function · Auto Restart · Temp Compensation · Refrigerant Leakage Detect

OPTIONAL FEATURES

2 Ways Draining Connection · Blow/X-fan · Bio-filter · Golden Fin · Vitamin C Filter · Silver Ion Filter · Chassis Heating Belt · 8°C Heating · Ionizer

Mini Split R22 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) (m^3/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) (m^3/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

Sleep Function
Sleep mode saves energy by gradually warming (summer) or cooling (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 (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

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

Cold Catalyst Filter (Optional)

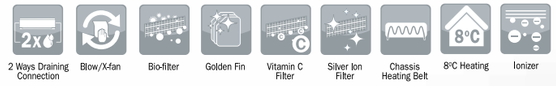
Golden Fin (Optional)
Effectively prevents bacteria breeding and improves heat transfer efficiency. The unique anti corrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements

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 weather

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

STANDARD FEATURES

OPTIONAL FEATURES



Up to 5 Connections

Eco Design Mini Split DC Inverter R410A

Back - Lit Display

12 Steps Indoor Fan Speed

Up to 12 steps indoor fan speed, ensures more accurate temperature control and creates an ultra comfor table 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 par ticles and neutralities 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 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

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 misleadings. It's mainly used for commercial zones and makes air conditioner control more convenient

P2MVI

STANDARD FEATURES

Auto Error Diagnosis · Hot Start Operation · 12 Steps Indoor Fan Speed · Turbo Function · Auto swing louver · Sleep Function · Auto Restart

OPTIONAL FEATURES

2 Ways Draining Connection · i Feel · Vitamin C Filter · Bio-filter · Silver Ion Filter · Golden Fin · Low Ambient Cooling · Wired Controller

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^3/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 / 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

Eco Design Mini Split DC Inverter R410A

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 neutralities 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 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

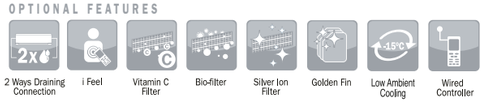
Low Ambient Cooling (Optional)
Operation at low outdoor temperature (up to -15ºC) in cooling mode

Wired Control (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid misleadings. 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	0.14
	Heating	0.21	0.21	0.11	0.14
Power Input (W)	Cooling	48	48	24	34
	Heating	48	48	24	34
Air Flow Volume (m^3/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 / 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	17-32
	Heating	0-30	0-30	0-30	0-30

Eco Design Round Flow Cassette

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

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 warming (summer) or cooling (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

Auto Restart
Saves the last settings in case of power failure

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-0 7	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	0.18	0.44
	Heating	0.18	0.18	0.18	0.44
Power Input (W)	Cooling	40	40	40	102
	Heating	40	40	40	102
Air Flow Volume (m^3/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	647x50x647
	Indoor Unit	570x260x570	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	17-32
	Heating	0-30	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 warming (summer) or cooling (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 -15ºC) 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

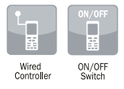
ON-OFF Switch (Optional)
With the reserved ports, a remote switch can be easily connected to realize remote control

Healthy Filters (Optional)

LV2MLI

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	0.22
	Heating	0.13	0.13	0.17	0.22
Power Input (W)	Cooling	30	30	40	50
	Heating	30	30	40	50
Air Flow Volume (m^3/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 / 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	17-32
	Heating	0-30	0-30	0-30	0-30

Eco Design Ducted Type

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 warming (summer) or cooling (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		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	0.48
	Heating	0.13	0.13	0.17	0.48
Power Input (W)	Cooling	30	30	40	107
	Heating	30	30	40	107
Air Flow Volume (m^3/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	17-32
	Heating	0-30	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	6.4
		SEER	5.2	6.3	6.4
		Energy Class	A	A++	A++
	Heating (Average Zone)	Pdesign (kW)	4.4	5.8	6.1
		SCOP	3.5	4.1	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	10.5
		SEER	7.0	6.4	5.8	5.3
		Energy Class	A++	A++	A+	A
	Heating (Average Zone)	Pdesign (kW)	8.6	8.2	10.9	10.5
		SCOP	3.9	3.8	3.8	3.4
		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

STANDARD FEATURES

Wide Operation Range · 5 Steps Outdoor Fan Speed · Flexible Installation

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. Cooling -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

Combinations											
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	-	-				•	•	•	•
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	18k	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	-						•	•

Combination Table

Combinations											
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	9k	18k	18k	-						•	•
7k	12k	12k	12k	-						•	•
7k	12k	12k	18k	-						•	•
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	-						•	•
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	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	12k	12k							•
7k	7k	9k	12k	18k							•
7k	7k	12k	12k	12k							
7k	7k	12k	12k	18k							•
7k	9k	9k	9k	9k							•
7k	9k	9k	9k	12k							•
7k	9k	9k	9k	18k							•
7k	9k	9k	12k	12k							•
7k	9k	9k	12k	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							•
7k	9k	12k	12k	12k							•
7k	9k	12k	12k	18k							•
9k	9k	12k	12k	12k							•
9k	12k	12k	12k	12k							•
12k	12k	12k	12k	12k							•

Eco Design Compact Round Flow Cassette

MODEL			V2MCRI-12/U2MRS-12	V2MCRI-18/U2MRS-18
			ALL DC INVERTER	ALL DC INVERTER
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) (Middle Zone)	Cooling	Pdesign (kW)	3.5	5.0
		Energy Class	A+	A+
		SEER	5.6	5.6
		Annual Power Consumption (kWh/year)	-	-
	Heating	Pdesign (kW)	3.5	5.3
		Energy Class	A	A
		SCOP	3.8	3.8
		Annual Power Consumption (kWh/year)	-	-
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) (m^3/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

Compact Round Flow Cassette

MODEL		VMCRI-12/UMRS-12	VMCRI-18/UMRS-18	IMCRI-12/UMLS-12	IMCRI-18/UMLS-18
		DC INVERTER	DC INVERTER	ON|OFF	ON|OFF
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) (m^3/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, VMCRI & IMCRI

A+ Energy Class Eco Design units

ALL DC INVERTER advanced technology.
DC INVERTER compressor and indoor / outdoor fan motors for excellent 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

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 run 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 warming (summer) or cooling (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 Controller (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

Light Commercial A/C

Eco Design Super Slim Round Flow Cassette

inventor
Your-conditions

BLUE-LINE RANGE

MODEL			V2MCI-18/U2MRS-18	V2MCI-24/U2MRS-24	V2MCI-30/U2MRS-30	V2MCI-36/U2MRS-36
			ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER
Cooling Capacity (Btu/h)			18.000 (5.400-21.600)	24.000 (7.200-28.800)	30.000 (90.00-36.000)	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) (Middle Zone)	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	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^3/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
			ALL DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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) (Middle Zone)	Cooling	Pdesign (kW)	10.5	-	-	-
		Energy Class	A	-	-	-
		SEER	5.2	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-	-
	Heating	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^3/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

V2MCI

(Optional)

A+ Energy Class Eco Design units

ALL DC INVERTER advanced technology.
DC INVERTER compressor and indoor / outdoor fan motors for excellent efficiency in extreme weather conditions and maximum energy savings

Excellent Operation in extreme weather conditions without efficiency loss. Cooling -15ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode in low ambient temperatures, -15ºC~50ºC

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 run smoothly. It also provides accurate control for a comfortable environment and great energy saving

1 Watt Standby - Power consumption less than 1 Watt in stand by 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 warming (summer) or cooling (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 through out 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 Controller (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

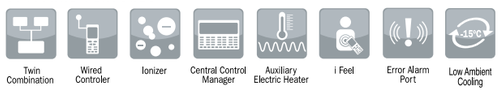
Twin Combination (Optional)
The units can be installed as twin systems, one outdoor unit can be connected with two same indoor units. The indoor units can be combined in any of the different available ratings

Touch Screen Wired Controller (Optional)

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

STANDARD FEATURES

OPTIONAL FEATURES



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
		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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) (m^3/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 (ºC)	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
		ON|OFF	ON|OFF	ON|OFF	ON|OFF	ON|OFF
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) (m^3/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 (ºC)	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

Super Slim Round Flow Cassette

inventor
Your-conditions

V1MCI & IMCI

DC INVERTER | U-MATCH | R410A

A Energy Class

DC INVERTER Technology
Energy saving with high comfortable levels

Excellent Operation
in extreme weather conditions without efficiency loss. Cooling -15ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode
in low ambient temperatures, -15ºC~50ºC

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 warming (summer) or cooling (winter) the indoor temperature, to match your body metabolism helping you sleep comfortably

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 Controller (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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)
Generates positive and negative ions by ionizing air. 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

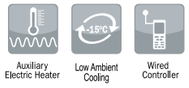
Twin Combination (Optional)
The units can be installed as twin systems, one outdoor unit can be connected with two same indoor units. The indoor units can be combined in any of the different available ratings

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



Eco Design Ducted Unit

inventor
Your-conditions

BLUE-LINE RANGE

MODEL			V2MDI-12/U2MRS-12	V2MDI-18/U2MRS-18	V2MDI-24/U2MRS-24	V2MDI-30/U2MRS-30
			All DC INVERTER	All DC INVERTER	All DC INVERTER	All DC INVERTER
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) (Middle Zone)	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
		Annual Power Consumption (kWh/year)	-	-	-	-
	Heating	Pdesign (kW)	3.5	5.3	8	8.6
		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	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^3/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
			All DC INVERTER	All DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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) (Middle Zone)	Cooling	Pdesign (kW)	10.5	10.5	-	-	-
		Energy Class	A	A	-	-	-
		SEER	5.4	5.1	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-	-	-
	Heating	Pdesign (kW)	10.5	10.5	-	-	-
		Energy Class	A	A	-	-	-
		SCOP	3.8	3.8	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-	-	-
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^3/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

A++ | All DC Inverter | Eco Design | U-Match | R410A | (Optional) i FEEL

A++ Energy Class Eco Design units

ALL DC INVERTER advanced technology.
DC INVERTER compressor and indoor / outdoor fan mo tors for excellent 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

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 run 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 warming (summer) or cooling (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 conven tional 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 Controller
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

5 Steps Outdoor Fan Speed | Auto Restart | Fresh Air | Timer | Sleep Function | Wide Operation Range | Error Alarm Port | Wired Controller | Adjustable Static Pressure Switch

OPTIONAL FEATURES

Central Control Manager | i Feel | Intelligent Anti-cold Air Function | Built-In Drain Pump | Auxiliary Electric Heater | Low Ambient Cooling | Wireless remote control | Twin Combination

DC Inverter Ducted Unit

inventor Your-conditions

BLUE-LINE RANGE

MODEL		V1MDI-12/U1MRS-12	V1MDI-18/U1MRS-18	V1MDI-24/U1MRS-24	V1MDI-30/U1MRS-30
		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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) (m^3/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
		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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) (m^3/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

DC INVERTER technology
Energy saving with high comfortable levels

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

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 warming (summer) or cooling (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 conven tional 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 Controller
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

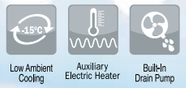
Low Ambient Cooling (Optional)
Operation at low outdoor temperature (up to -15 °C) in cooling mode

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

Remote Controller (Optional)

STANDARD FEATURES

OPTIONAL FEATURES



Middle Static Pressure Ducted Unit

inventor
Your-conditions

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) (m^3/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 (ºC)	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) (m^3/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 (ºC)	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

U.MATCH | R410A

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 warming (summer) or cooling (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 Controller
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. It's mainly used for commercial zones and makes air eondi tioner 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

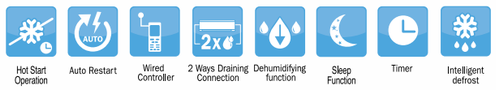
Auxiliary Electric Heater (Optional)
for higher efficiency in heating

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

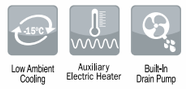
Built-in Drain Pump (Optional)
The drain pump can lift the condensing water up to 750mm

Remote Controller (Optional)

STANDARD FEATURES



OPTIONAL FEATURES



High Static Pressure Ducted Unit

inventor
Your-conditions

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	5.3
	Heating	7.96	11.12	12.26	4.49
Power Input (W)	Cooling	2.110	2.510	3.120	3.070
	Heating	1.740	2.430	2.680	2.600
EER		2.5	2.8	2.82	2.86
COP		3.2	3.14	3.5	3.61
Air Flow Volume (Hi/Med/Low) (m^3/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	50/45
	Outdoor unit	58	59	64	63
Dimensions WxDxH (mm)	Indoor unit	920x635x210	920x635x270	1.140x775x270	1.140x775x270
	Outdoor unit	760x285x590	845x320x700	990x345x965	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	18~43
	Heating	-7~24	-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	10.62
	Heating	5.78	7.97	8.88
Power Input (W)	Cooling	3.950	5.630	6.150
	Heating	3.350	4.620	5.140
EER		2.67	2.5	2.62
COP		3.5	3.3	3.42
Air Flow Volume (Hi/Med/Low) (m^3/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	160
Noise level (dB(A))	Indoor unit (Hi/Lo)	49/44	51/46	50/44
	Outdoor unit	61	63	63
Dimensions WxDxH (mm)	Indoor unit	1.140x775x270	1.200x865x300	1.200x865x300
	Outdoor unit	990x345x965	900x350x1.170	900x350x1.170
Net Weight Indoor/Outdoor (kg)		35 / 81	47 / 96	47 / 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)		30/63/74	26/54/63	26/54/63

U.MATCH | R410A

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 warming (summer) or cooling (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 Controller
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. It's mainly used for commercial zones and makes air eondi tioner 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

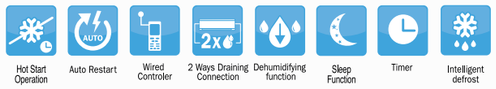
Auxiliary Electric Heater (Optional)
for higher efficiency in heating

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

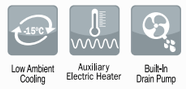
Built-in Drain Pump (Optional)
The drain pump can lift the condensing water up to 750mm

Remote Controller (Optional)

STANDARD FEATURES



OPTIONAL FEATURES



MODEL			V2MLI-12/U2MRS-12	V2MLI-18/U2MRS-18
			All DC INVERTER	All DC INVERTER
Cooling Capacity (Btu/h)			12.000	16.000
Heating Capacity (Btu/h)			12.000	17.000
Seasonal Efficiency (In accordance to EN14825) (Middle Zone)	Cooling	Pdesign (kW)	3.6	4.7
		Energy Class	A++	A+
		SEER	6.2	5.6
		Annual Power Consumption (kWh/year)	-	-
	Heating	Pdesign (kW)	3.5	5.1
		Energy Class	A	A
		SCOP	3.8	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^3/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 (ºC)		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 advanced technology.

DC INVERTER compressor and indoor / outdoor fan mo tors for excellent efficiency in extreme weather conditions and maximum energy savings

Excellent Operation in extreme weather conditions without efficiency loss. Cooling -15ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode in low ambient temperatures, -15ºC~50ºC

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 run 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 warming (summer) or cooling (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 Controller (Optional)

Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

Hot Start Operation · Auto Restart · Flexible Installation · Wide-angle Air Flow · Ultra low noise · Timer · Intelligent defrost · Sleep Function · Low Ambient Cooling · Wireless remote control

OPTIONAL FEATURES

Optional Filter · Wired Controller

MODEL		VMLI-12/UMRS-12	VMLI-18/UMRS-18	IMLI-12/UMLS-12	IMLI-18/UMLS-18
		DC INVERTER	DC INVERTER	ON|OFF	ON|OFF
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)	7.42 (2.26-8.95)	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) (m^3/h)		550/460/380	740/640/560	550/460/380	740/640/560
Noise level (dB(A))	Indoor unit (High/Low)	38/28	44/34	38/28	44/34
	Outdoor unit	54	58	55	54
Dimensions WxDxH (mm)	Indoor unit	700x210x600	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	-15~50	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

DC INVERTER

U.MATCH

R410A

VMLI & IMLI

A Energy Class

DC INVERTER Technology
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 warming (summer) or cooling (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 Controller (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

Eco Design Floor/Ceiling Unit

inventor
Your-conditions

BLUE-LINE RANGE

MODEL			V2MKI-18/U2MRS-18	V2MKI-24/U2MRS-24	V2MKI-30/U2MRS-30	V2MKI-36/U2MRS-36	V2MKI-36/U2MRT-36
			ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER	ALL DC INVERTER
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) (Middle Zone)	Cooling	Pdesign (kW)	5.3	7.3	8.8	10.5	10.5
		Energy Class	A++	A++	A++	A+	A+
		SEER	6.2	6.6	6.3	5.8	5.6
		Annual Power Consumption (kWh/year)	-	-	-	-	-
	Heating	Pdesign (kW)	5.3	8.0	8.6	10.5	10.0
		Energy Class	A	A	A	A	A
		SCOP	3.8	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	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^3/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 (ºC)		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
			DC INVERTER	DC INVERTER	DC INVERTER
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) (Middle Zone)	Cooling	Pdesign (kW)	-	-	-
		Energy Class	-	-	-
		SEER	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-
	Heating	Pdesign (kW)	-	-	-
		Energy Class	-	-	-
		SCOP	-	-	-
		Annual Power Consumption (kWh/year)	-	-	-
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^3/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	938x392x1369	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 (ºC)		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++ ALL DC INVERTER ECO DESIGN U-MATCH R410A (Optional) I FEEL (Optional) Healthy Filters

A++ Energy Class Eco Design units

ALL DC INVERTER advanced technology. DC INVERTER compressor and indoor / outdoor fan motors for excellent efficiency in extreme weather conditions and maximum energy savings

Excellent Operation in extreme weather conditions without efficiency loss. Cooling -15ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode in low ambient temperatures, -15ºC~50ºC

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 run 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 warming (summer) or cooling (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 Controller (Optional)
Compared with the infrared remote controller, the wired con troller can be fixed on the wall to avoid mislaying. 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 con nected 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

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

STANDARD FEATURES

3D Air Flow · Auto Restart · Timer · Sleep Function · 5 Steps Outdoor Fan Speed · Wireless remote control · Error Alarm Port · Low Ambient Cooling · Wide Operation Range · Hot Start Operation · 2 Ways Draining Connection

OPTIONAL FEATURES

Wired Controller · Central Control Manager · i Feel · Optional Filter · Built-In Drain Pump

DC Inverter Floor/Ceiling Unit

inventor
Your-conditions

MODEL		VMKI-12/UMRS-12	VMKI-18/UMRS-18	VMKI-24/UMRS-24	VMKI-30/UMRS-30
		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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)	12.4 (2.95-16.66)
	Heating	4.8 (1.35-5.83)	7.05 (3.04-10.21)	8.92 (4.57-11.31)	11.67 (2.77-15.64)
Power Input (W)	Cooling	1.030 (340-1.370)	1.620 (550-2.500)	2.180 (1.000-2.800)	2.710 (678-3.831)
	Heating	1.050 (310-1.340)	1.590 (700-2.350)	1.980 (1.050-2.600)	2.550 (637-3.598)
EER		3.41	3.25	3.22	3.24
COP		3.63	3.68	3.7	3.68
Air Flow Volume (Hi/Med/Low) (m^3/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	54/45
	Outdoor unit	54	58	58	58
Dimensions WxDxH (mm)	Indoor unit	990x203x660	1.068x235x675	1.068x235x675	1.285x235x675
	Outdoor unit	760x285x590	760x285x590	845x320x700	900x315x860
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	-15~50
	Heating	-15~24	-15~24	-15~24	-15~24
Loading Quantity 20'/40'/40 HQ (Set)		aaaaaaa	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
		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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)	9.15(6.03-12.92)
	Heating	5.4 (4.01-8.89)	13.5 (3.2-18.09)	6.56(3.49-9.44)	8.35(5.22-12.11)
Power Input (W)	Cooling	3.200 (2.250-5.550)	3.250 (696-4.583)	4.290 (2.440-6.090)	5.310 (3.500-7.500)
	Heating	3.160 (2.350-5.200)	2.950 (737-4.161)	3.800 (2.020-5.470)	4.844 (3.030-7.030)
EER		3.28	3.25	3.21	3.2
COP		3.7	3.58	3.86	3.63
Air Flow Volume (Hi/Med/Low) (m^3/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	56/49	54/46
	Outdoor unit	63	64	63	64
Dimensions WxDxH (mm)	Indoor unit	1.285x235x675	1.285x235x675	1.650x235x675	1.650x235x675
	Outdoor unit	990x354x966	990x354x966	938x392x1.369	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	-15~50
	Heating	-15~24	-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

VMKI

DC INVERTER | U-MATCH | R410A

A Energy Class

DC INVERTER technology
Energy saving with high comfortable levels

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

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 warming (summer) or cooling (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 (Optional)

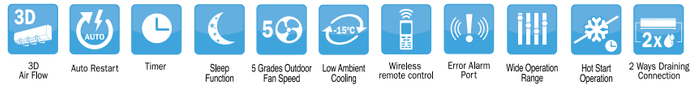
Low Ambient Cooling (Optional)
Operation at low outdoor temperature (up to -15 °C) in cooling mode

Auxiliary Electric Heater (Optional)
for higher efficiency in heating

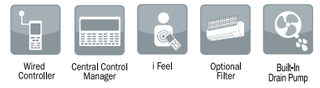
Wired Controller (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. It's mainly used for commercial zones and makes air conditioner control more convenient

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

STANDARD FEATURES



OPTIONAL FEATURES



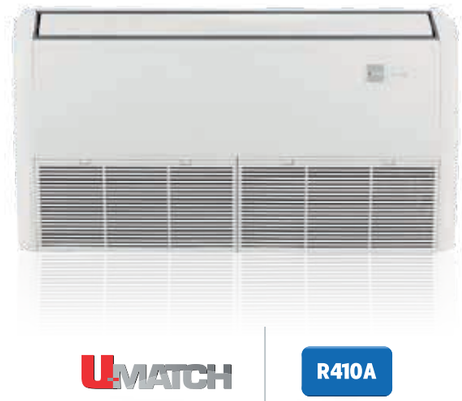
Floor/Ceiling Unit

inventor
Your-conditions

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) (m^3/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) (m^3/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

IMKI



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 warming (summer) or cooling (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 Controller (Optional)
Compared with the infrared remote controller, the wired controller can be fixed on the wall to avoid mislaying. 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

MODEL		V2MFI-50/V2MF0-50	V2MFI-66/V2MF0-66	V1MFI-24/V1MF0-24	V1MFI-36/V1MF0-36	V1MFI-50/V1MF0-50
		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
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) (m^3/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 (ºC)	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/V1MF0-66	RMFI-24/RMF0-24	RMFI-50/RMF0-50	RMFI-66/RMF0-66
		DC INVERTER	ON|OFF	ON|OFF	ON|OFF
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) (m^3/h)		2.300/2130/1.250	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 (ºC)	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

DC INVERTER

R410A

Advanced DC INVERTER Technology
Energy saving and higher comfort levels

Excellent Operation
in extreme weather conditions without efficiency loss. Cooling -15ºC~50ºC / Heating -15ºC~30ºC

Cooling Mode
in low ambient temperatures, -15ºC~50ºC

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

Auto error diagnosis · Dehumidifying function · Silent Mode · Anti-Rust Cabinet · Auxiliary Electric Heater · LCD Display · Auto Restart · Easy-cleaned Panel · Wireless remote control · 24-hours programming · Auto swing louver · Turbo Function

OPTIONAL FEATURES

Golden Fin

WARRANTY 5 YEARS

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

Heat Pumps for domestic use

Heating - Cooling - Hot Water!

All in one system

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 *Room temperature: 27°C DB/19°C WB* / *Outdoor temperature: 35°C DB/24°C WB*

HEATING *Room temperature: 20°C DB/15°C WB* / *Outdoor temperature: 7°C DB/6°C WB*