

floor standing · cassettes · floor ceiling · ducted



light commercial

Product Catalogue **2015**



	COOLING - HEATING			COOLING			HEATING (Middle Zone)				
	Energy Class	Energy Class	Energy Class	Energy Class	Energy Class	Energy Class	Energy Class	Energy Class			
V3MFI-24 / V3MFO-24	24.000 (4.100-33.600)	24.000 (4.100-33.700)	-	-	-	7.03	A++	6.1	7.03	A	3.81
V1MFI-50B / V1MFO-50B	48.000 (14.400-57.600)	50.000 (15.000-60.000) +12.000	3.28	A	3.51	-	-	-	-	B	-
V1MFI-66B / V1MFO-66B	55.000 (16.500-66.000)	58.000 (17.400-69.600) +12.000	3.26	A	3.78	-	-	-	-	-	-
RMFI-50 / RMFO-50	42.000	49.000 +11.942	2.41	E	2.76	-	-	-	-	-	-
RMFI-66 / RMFO-66	53.500	56.500 + 11.942	2.53	E	2.91	-	-	-	-	C	-

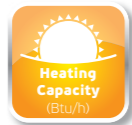
R410A		CE	RoHS	RoHS	RoHS	
		V3MFI-24/V3MFO-24	V1MFI-50B/V1MFO-50B	V1MFI-66B/V1MFO-66B	RMFI-50/RMFO-50	RMFI-66/RMFO-66
Voltage / Frequency / Phase (V/Hz/Ph)		220-240 / 50 / 1	380 / 50 / 3	380 / 50 / 3	380 / 50 / 3	380 / 50 / 3
Rated Current (A)	Cooling / Heating	9.72 / 8.51	7.4 / 7.2	8.4 / 8.2	8.5 / 8.7	10.5 / 9.8
Power Input (W)	Cooling / Heating	2.190 / 1.950	4.289 / 4.174	4.944 / 4.497	5.100 / 5.200	6.200 / 5.700
Air Flow (m³/h)		1.100/950/760	2.300	2.300	1.750	2.200
Speeds		3	3	3	3	3
Noise Level (dB(A))	Indoor unit (High/Low)	50 / 44 / 38	60 / 57	60 / 57	54 / 50	59 / 55
	Outdoor unit	60	63	62	62	62
Noise Level (dB(A)) Indoor unit / Outdoor unit		61.5 / 69	-	-	-	-
Power Supply Wire Outdoor Unit (Noxmm²)		3x2.5	5x4	5x4	-	5x4
Fuses (A)		20	3x25	3x25	3x25	3x25
Power Supply Wire Indoor Unit (Noxmm²)		3x1.5	5x2.5	5x2.5	5x4	-
Signal Wires (Noxmm²)		4x0.5	4x0.5	4x0.5	3X1 ΜΠΛΕΤΑΖ & 5X2,5	3x1 ΜΠΛΕΤΑΖ & 5x2,5
Dimensions Indoor Unit WxHxD (mm)		500x1.700x315	610x1.925x390	610x1.925x390	550x1.800x350	600x1.900x358
Dimensions Outdoor Unit WxHxD (mm)		900x860x315	938x1.369x392	938x1.369x392	900x1.170x350	900x1.170x350
Net Weight (Kg)	Indoor unit / Outdoor unit	37.6 / 59	62 / 102	63 / 107	50 / 97	65 / 96
Liquid Line / Gas Line		3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	1/2" / 3/4"	1/2" / 3/4"
Refrigerant		R410A / 2.200g	R410A / 3.800g	R410A / 4.600g	R410A / 3.300g	R410A / 3.200g
Operation Temperature Range (°C) Cooling / Heating		-15-50 / -15-24	-15-50 / -15-24	-15-50 / -15-24	18-43 / -07-24	18-43 / -07-24



floorstanding

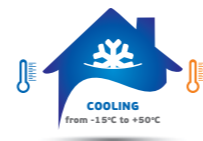
Your valuable partner! With Exceptional performance ratings and low energy consumptions. The uniform air distribution and smart airflow covers all kinds of spaces.

- Lower Power Consumption and Higher Efficiency**
Due to the New Defrost function.
- Plug-in electric heater**
For higher efficiency in heating.
- 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 the ideal indoor environment.
- High Air Flow**
- SANYO Compressor**
- LCD Display**
- Full Protection**
From phase reverse, overload and high/low refrigerant pressure.



Model	Cooling Capacity (Btu/h)	Heating Capacity (Btu/h)
V3MCRI-18/U2MRS-18	18000 (3.070-24.200)	18000 (3.250-24.800)
V2MCI-24/U2MRS-24	24.000 (7.200-28.800)	26.000 (7.800-31.200)
V2MCI-36/U2MRS-36	36.000 (11.160-43.560)	40.000 (13.200-49.200)
V3MCI-50/U3MRT-50	47.000 (13.600-55.800)	53.000 (14.300-63.000)
V3MCI-60/U3MRT-60	54.000 (17.000-65.800)	62.000 (18.800-73.400)
IMCI-50/UMLT-50	46.600	49.500

COOLING - HEATING			COOLING			HEATING (Made Zone)		
SEER (Energy Class)	Energy Class	SEER (Energy Class)	Pdesign (W/h)	Energy Class (Cooling)	SEER (Energy Class)	Pdesign (W/h)	Energy Class (Heating Zone)	SCOP (Energy Class)
-	-	-	5.3	A+	6.4	4.7	A	3.8
-	-	-	7.3	A+	6.5	8.0	A	3.8
-	-	-	10.5	A	5.2	10.3	A	3.8
-	-	-	14.0	A+	5.6	11.0	A+	4.0
-	-	-	16.0	A+	5.6	11.3	A+	4.0
2.55	E	2.68	-	-	-	-	-	-



R410A CE E0 9001 E0 9008 RoHS		V3MCRI-18/U2MRS-18	V2MCI-24/U2MRS-24	V2MCI-36/U2MRS-36	V3MCI-50/U3MRT-50	V3MCI-60/U3MRT-60	IMCI-50/UMLT-50
Voltage / Frequency / Phase (V/Hz/Ph)		220-240 / 50 / 1	230 / 50 / 1	230 / 50 / 1	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Current Input (A)		10.0	13.37	19.81	13.0	14.0	17.0
Power Input (W)		2.200	3.074	4.585	6.700	7.500	6.300
Air Flow Volume (m³/h)		800/650/500	1.780	1.850	1.850/1.600/1.400	1.900/1.650/1.450	1.545
Noise Level (dB(A))	Indoor unit / Outdoor unit	48/40/33 / 57	50 / 60	52 / 65	55/51/48 / 66	52/49/46 / 61	51 / 63
Sound Power Level (dB(A))	Indoor unit / Outdoor unit	59 / 65	62 / 69	64 / 70	67 / 75	69 / 74	-
Power Supply Wire Outdoor Unit (Noxmm²)		3x2.5	3x2.5	3x4	5x2.5	5x2.5	5x2.5
Fuses (A)		1x16	1x16	1x25	3x20	3x20	3x20
Power Supply Wire Indoor (Noxmm²)		3x1.5	3x1.5	3x1.5	3x1.5	3x1.5	3x1.5
Signal Wires (Noxmm²)		3x0.5*	3x0.5*	3x0.5*	3x0.5*	3x0.5*	3x0.5*
Dimensions WxDxH (mm)	Panel	647x647x50	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
	Indoor unit / Outdoor unit	570x570x260 / 810x310x558	840x840x245 / 900x315x860	840x840x245 / 990x345x965	840x840x287 / 938x392x1369	840x840x287 / 938x392x1.369	840x840x300 / 900x350x1.170
Net Weight (kg)	Panel / Indoor unit / Outdoor unit	2.5 / 16.5 / 36.7	5 / 24 / 59	5 / 26.5 / 73	5 / 28 / 97.1	5 / 28.7 / 102.7	5 / 28.6 / 96
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" / 3/4"
Refrigerant		R410A / 1.830g	R410A / 2.200g	R410A / 2.750g	R410A / 3.800g	R410A / 4.600g	R410A / 3.250g
Room Temperature	Cooling	-15-50	-15-50	-15-50	-15-50	-15-50	18-43
Range (°C)	Heating	-15-24	-15-24	-15-24	-15-24	-15-24	-07-24

SPECIFICATIONS

*stranded wire



cassettes

With an energy class A+ rating and All DC Inverter technology, the cassette indoor units can satisfy all your professional needs.

V2MCI, V3MCRI, V3MCI 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.

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

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 savings.

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

1 Watt Standby

IMCI
SANYO scroll Compressor

Full protection
With high and low pressure switch, phase protector and overload protector.

V2MCI, V3MCRI, V3MCI, IMCI
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

Remote Control
On/Off ports on the indoor unit's board and error display.

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

Auto Restart

LCD Remote Controller

Touch Screen Wired Controller (Optional)

Wired Controller (Optional)

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



COOLING				HEATING (Middle Zone)			
Performance (kW)	Energy Class (Cooling)	SEER (Energy Class)	Annual Consumption (kWh/cooling)	Performance (kW)	Energy Class (Middle Zone)	SCOP (Energy Class)	Annual Consumption (kWh/heating)
5.3	A++	6.3	-	5.8	A+	4.1	-
7.3	A++	6.6	-	8.0	A	3.8	-
10.5	A+	5.8	-	10.5	A	3.8	-

LV2MLI-18 / U2MRS-18

18.000

18.000

V2MKI-24 / U2MRS-24

24.000
(7.920-29.040)

26.000
(8.060-32.240)

V2MKI-36 / U2MRS-36

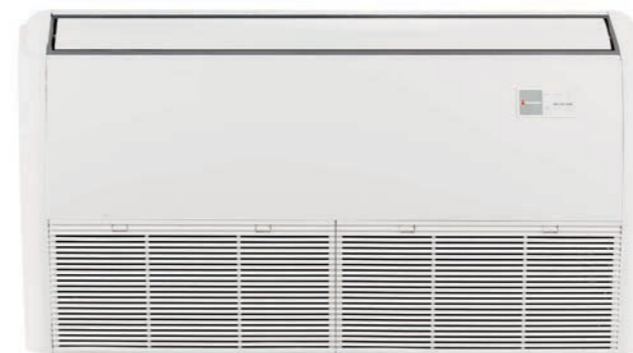
36.000
(11.160-43.560)

40.000
(13.200-49.200)



V2MKI

LV2MLI



R410A CE RoHS		LV2MLI-18 / U2MRS-18	V2MKI-24 / U2MRS-24	V2MKI-36 / U2MRS-36
Voltage / Frequency / Phase (V/Hz/Ph)		230 / 50 / 1	230 / 50 / 1	230 / 50 / 1
Current Input (A)		7.3	13.5	20.11
Power Input (W)		1.680	3.093	4.626
Air Flow Volume (m³/h)		740	1.400	2.200
Noise Level (dB(A))	Indoor unit	48	55	54
	Outdoor unit	61	60	65
Sound Power Level (dB(A))	Indoor unit	59	63	65
	Outdoor unit	63	69	70
Power Supply Wire Outdoor Unit (Noxmm²)		3x2.5	3x2.5	3x4
Fuses (A)		1x16	1x16	1x25
Power Supply Wire Indoor Unit (Noxmm²)		-	3x1.5	3x1.5
Signal Wires		4x1.5	3x0.5*	3x0.5*
Dimensions WxHxD (mm)	Indoor unit	700x600x210	1.068x235x675	1.650x235x675
	Outdoor unit	845x700x320	900x315x860	990x345x965
Net Weight (kg)	Indoor unit	15	25	40
	Outdoor unit	48	59	73
Liquid Line / Gas Line		1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"
Refrigerant		R410A / 1.900g	R410A / 2.200g	R410A / 2.750g
Operation Temperature Range (°C)	Cooling	-15-50	-15-50	-15-50
	Heating	-15-24	-15-24	-15-24

SPECIFICATIONS

*stranded wire

floorceiling

Air conditioning units that have an energy class A++ rating and All DC inverter technology while achieving a high performance operation, even in the most difficult situations. A wide range of performance in the heating and cooling modes. An ideal solution for demanding needs.

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.

1 Watt Standby
Power consumption less than 1 Watt in standby mode with energy savings 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.

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

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

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

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

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

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

Fresh Air Intake
For a clean and healthy environment.

Ability to connect with BMS

Remote Control
On/Off ports on the indoor unit's board and error display.

Touch Screen Wired Controller (Optional)

Wired Controller (Optional)

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

LCD Remote Controller

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



V2MDI-12/U2MRS-12

12.000
(3.720-14.640)

12.000
(3.840-14.760)

V2MDI-18/U2MRS-18

18.000
(5.580-21.960)

18.000
(5.760-22.140)

V2MDI-24/U2MRS-24

24.000
(7.400-29.280)

26.000
(8.320-31.980)

V2MDI-36/U2MRS-36

36.000
(11.160-43.920)

40.000
(12.800-49.200)

COOLING				HEATING (Middle Zone)			
Power Input (kW)	Energy Class (Cooling)	SEER (Energy Class)	Annual Consumption kWh/cooling	Power Input (kW)	Energy Class (Middle Zone)	SCOP (Energy Class)	Annual Consumption kWh/heating
3.5	A	5.3	231	3.5	A	3.8	1.289
5.3	A++	6.4	290	5.3	A	3.8	1.953
7.2	A++	6.7	376	8.0	A	3.8	2.947
10.5	A	5.4	681	10.5	A	3.8	3.868



V2MDI



R410A		CE	RoHS	REACH	V2MDI-12/U2MRS-12	V2MDI-18/U2MRS-18	V2MDI-24/U2MRS-24	V2MDI-36/U2MRS-36
Voltage / Frequency / Phase (V/Hz/Ph)					230 / 50 / 1	230 / 50 / 1	230 / 50 / 1	230 / 50 / 1
Current Input (A)					5.3	9.64	13.5	20.11
Current Input (W)					1.100	2.217	3.094	4.626
Air Flow Volume (m³/h)					800	1.400	1.700	2.270
External Static Pressure (Pa)					40	70	70	80
Noise Level (dB(A))	Indoor unit / Outdoor unit				41 / 58	46 / 60	46 / 60	46 / 65
Sound Power Level (dB(A))	Indoor unit / Outdoor unit				57 / 61	59 / 65	63 / 69	63 / 70
Power Supply Wire Outdoor Unit (Noxmm²)					3x2.5	3x2.5	3x2.5	3x4
Fuses (A)					1x16	1x16	1x16	1x25
Power Supply Wire Indoor Unit (Noxmm²)					3x1.5	3x1.5	3x1.5	3x1.5
Signal Wires					4x1.5	3x0.5*	3x0.5*	3x0.5*
Dimensions WxHxD (mm)	Indoor unit				700x635x210	920x635x270	920x635x270	1.200x865x300
	Outdoor unit				760x285x590	845x320x700	900x315x860	990x345x965
Net Weight (kg)	Indoor unit				18	28	28	44
	Outdoor unit				35.5	46	59	73
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 / 2.750g
Operation Temperature	Cooling				-15-50	-15-50	-15-50	-15-50
Range (°C)	Heating				-15-24	-15-24	-15-24	-15-24

*stranded wire



ducted

High energy class A++ rating and All DC INVERTER technology with a wide range of performance in cooling and heating modes. The ideal solution that meets every professional need while providing the best temperature conditions.

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.

1 Watt Standby
Power consumption less than 1 Watt in standby mode with energy savings 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.

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.

New Design
Plastic Fans for lower noise and vibrations (V2DI).

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 and maximum energy savings.

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



V3MDI-50/U3MRT-50

48.000
(13.600-55.000)

54.000
(16.000-60.000)

- - -

14.0 A++ 6.1 231

11.8 A+ 4.0 1.289

V3MDI-60/U3MRT-60

55.000
(16.000-60.000)

62.000
(17.000-68.000)

- - -

16.0 A+ 5.6 149

12.3 A+ 4.0 769

IMDI-60/UMLT-60

55.000
(11.160-43.920)

60.000
(12.800-49.200)

2.46 E/C 3.22

- - - -

- - - -



V2MDI, IMDI



R410A CE ENEC ISO 9001 ISO 14001 RoHS		V3MDI-50/U3MRT-50	V3MDI-60/U3MRT-60	IMDI-60/UMLT-60
Voltage / Frequency / Phase (V/Hz/Ph)		380-415 / 3 / 50	380-415 / 3 / 50	380 / 50 / 3
Current Input (A)		13.0	14.0	11.31
Current Input (W)		6.700	7.500	6.550
Air Flow Volume (m³/h)		2.950/2.750/2.600	2.950/2.750/2.600	3.150
External Static Pressure (Pa)		100	100	100
Noise Level (dB(A))	Indoor unit / Outdoor unit	50/47/44 / 66	50/47/45 / 61	38 / 63
Sound Power Level (db(A))	Indoor unit / Outdoor unit	68 / 75	69 / 74	64 / -
Power Supply Wire Outdoor Unit (Noxmm²)		5x2.5	5x2.5	5x2.5
Fuses (A)		3x20	3x20	3x20
Power Supply Wire Indoor Unit (Noxmm²)		3x1.5	3x1.5	3x1.5
Signal Wires		3x0.5*	3x0.5*	3x1*
Dimensions WxHxD (mm)	Indoor unit	1.200x865x300	1.200x865x300	1.200x865x300
	Outdoor unit	938x392x1.369	938x392x1.369	900x350x1.170
Net Weight (kg)	Indoor unit	43.2	43.1	47
	Outdoor unit	97.1	102.7	97
Liquid Line / Gas Line		3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"
Refrigerant		R410A / 3.800g	R410A / 4.600g	R410A / 3.200g
Operation Temperature	Cooling	-15-50	-15-50	18-43
Range (°C)	Heating	-15-24	-15-24	-7-24

*stranded wire



ducted

Ducted air conditioning units are the ideal solution for professional places. With excellent features, high efficient performances, and maximum energy savings.

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

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

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.

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

Overflow Pump Indicator

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

Fresh Air adjustment from the controller (Optional)

Ability to connect with BMS

Remote Control
On/Off ports on the indoor unit's board and error display.

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

Remote Controller (Optional)



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Please contact your dealer.

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