eco°

eco°gbl industries

smart. efficient. innovative.

COMMERCIAL AIR SYSTEM

COOLING & HEATING

VRF

DC INVERTER VRF PRO

FOR PROFESSIONAL

2022 CATALOGUE

TOWARDS A GREENER WORLD

ECO-FRIENDLY
VARIABLE DRIVE (EVD)
AIR CONDITIONING SYSTEMS

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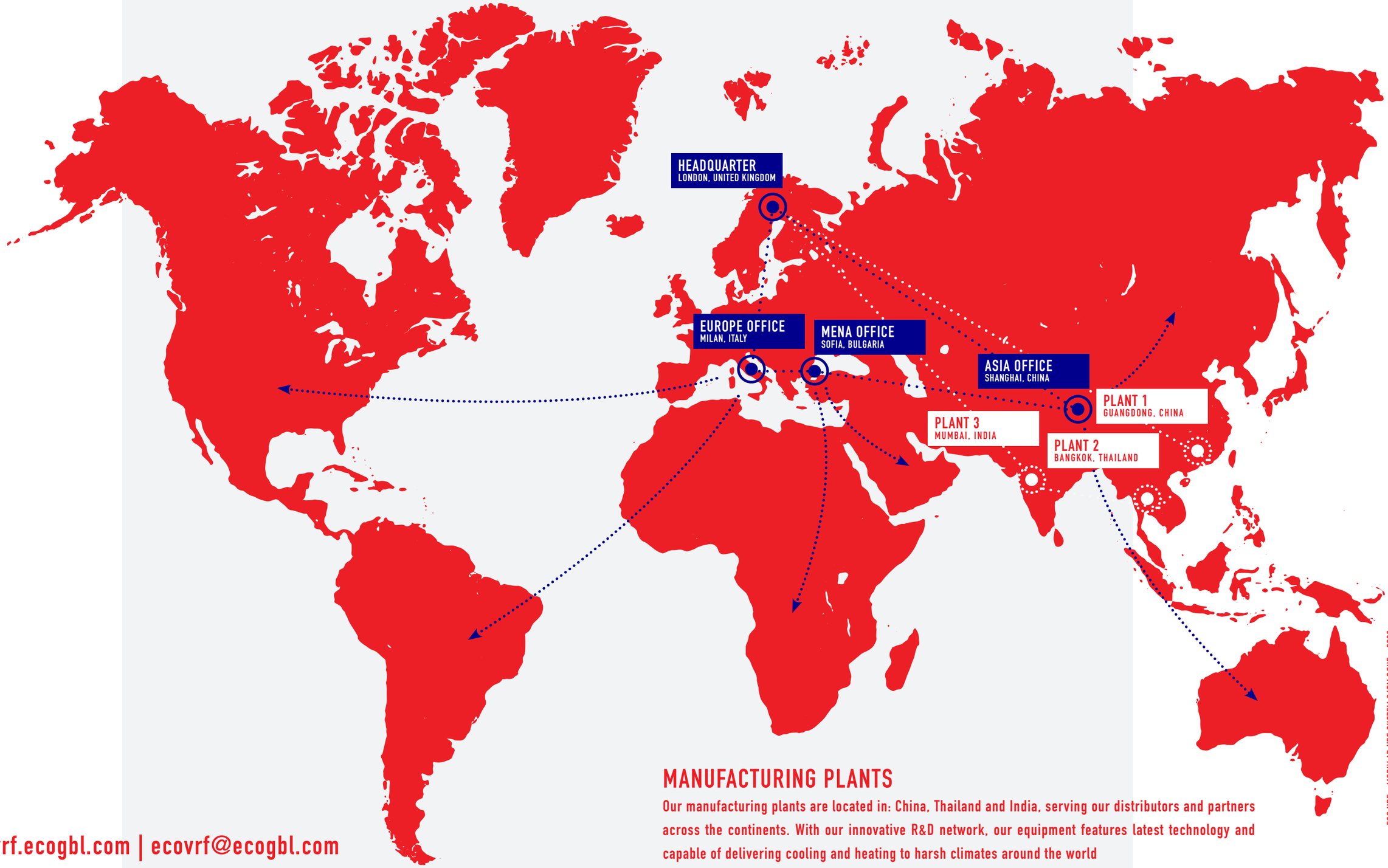
ecovrf@ecogbl.com

eco

A brand of ECO GLOBAL INDUSTRIES
www.ecogbl.com

CORPORATE PROFILE

We specialise in the manufucturing of DC INVERTER VARIABLE DRIVE equipment for central cooling and heating applications. Established in United Kingdom, we have regional offices across the world to serve our clients across the continents



MANUFACTURING PLANTS

Our manufacturing plants are located in: China, Thailand and India, serving our distributors and partners across the continents. With our innovative R&D network, our equipment features latest technology and capable of delivering cooling and heating to harsh climates around the world

POWERFUL PRO SYSTEM

With 13 BASE MODULES, each system can reach up until 96HP to provide more powerful cooling

ELECTRICAL LOCK FUNCTION

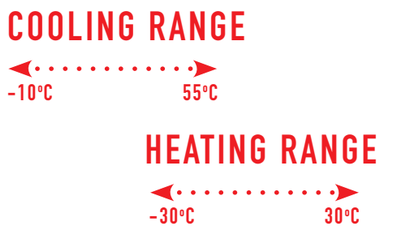
System can be locked down with password protection to prevent unauthorised access. This electrical lock also prevents system starting up without permission

1-PHASE & 3-PHASE MINI

Our MINI EVD equipment are avaialable in SINGLE-PHASE and THREE-PHASE electrical source, providing maximum flexibility on site

EASY SERVICE WINDOW

Service window is easily accessable through the side panel for quick servicing and quick status checking



OPERATION RANGE

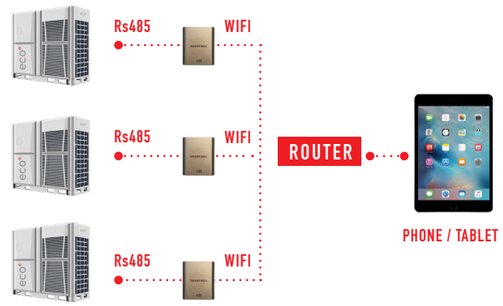
With a wide range of ambient temperature operation range, our equipment can operate in harsh climates around the globe

MORE INDOOR UNITS

Per system, our Modular EVD is capable of powerful at up to 100 indoor units

POWER SAVING MODE

Our EVD PRO equipment can operate with 40% - 100% generator load in power saving mode to ensure the system remains working under unstable electricity condition



ON-SITE DIAGNOSIS

Our Modular EVD can be customised to be managed by smart tablets and phones, allowing technicians and engineers to check on equipment status from anywhere

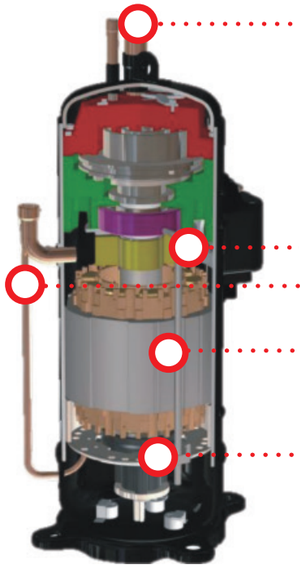
WIRELESS CONNECTIONS

Wireless communication between indoor units available as optional.

Wireless communication between indoor unit and outdoor unit available as optional.

REFRIGERANT STATUS

Built-in with smart refrigerant auto checking function, allowing technicians to easily diagnose status



Vapor Injectino Pipe, Better for Performance in Low Temperature Environment

High Strength Bearing, High Rigidity Shell

Oil Balance Design, Pump Extra Oil to Other Compressor

Wide Frequency Range

Build in Oil Pump, Active Oil Supply when Compressor is Operating

HIGH EFFICIENCY DC INVERTER COMPRESSOR

Featuring R410a friendly refrigerant and world-renowned inverter compressors, our EVD equipment offers:

+ high reliability
+ concentrated winding for better low frequency efficiency
+ small torque fluctuation, low vibration and quiet operation
+ internal oil circulation structure
+ wide rotation speed range
+ high efficiency due to patented internal structure design
+ high pressure chamber
+ neodymium permanent magnet rotor with powerful magnetic force, large torque and high efficiency

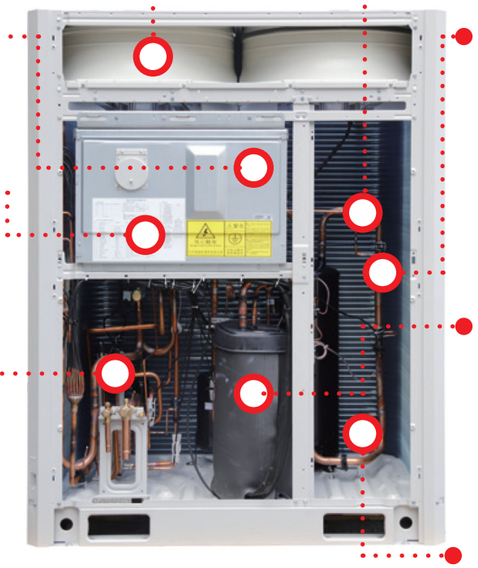
CORE TECHNOLOGY FOR BETTER PERFORMANCE

BRUSHLESS DC MOTOR
+ high efficiency
+ low noise

180° SINE WAVE CONTROL
+ high precision rotor speed control

STEPLESS CONTROL
+ on demand output, high efficiency and energy saving

CCT INNER GROOVED TUBE
+ excellent heat exchanging efficiency



2 IN 1 REFRIGERANT
+ increase the liquid refrigerant volume proportion

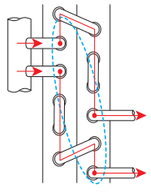
CROSS FLOW FINS
+ reduce wind resistance and improve heat exchange efficiency

DC INVERTER COMPRESSORS
+ high pressure type
+ asymmetric scroll design
+ neodymium permanent
+ magnet rotor

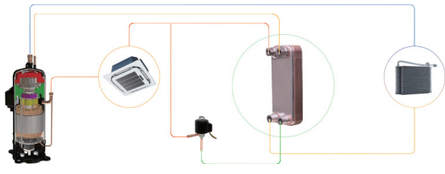
G TYPE CONDENSER
+ enlarge the heat exchange area, creating better heat exchange effect (available for 22 / 26 / 28 / 32HP

HIGH EFFICIENCY DC MOTOR

+ Featuring high efficiency DC Fan Motor from world-famous manufacturer
+ Low noise and high efficiency thanks to high-density wire winding engineering
+ Brushless with built-in sensor



FIRST STAGE:
SUBCOOLING FLOW PATH DESIGN



SECOND STAGE: SECONDARY SUBCOOLING DESIGN

TWO-STAGE SUPERCOOLING

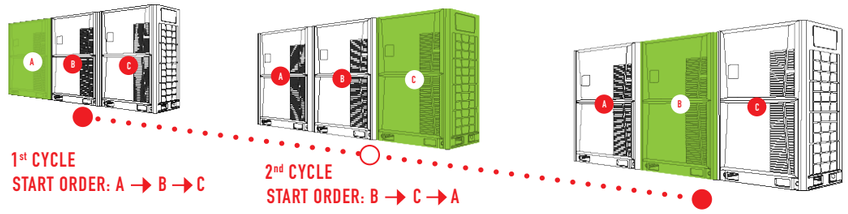
Supercooling flow path design, separates the refrigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant to increase,the system efficiency

MODULE BACK UP FUNCTION

COMPRESSOR BACK UP FUNCTION

3-STAGE BACK UP FUNCTIONS

COMPRESSOR BACK UP FUNCTION - when one compressor fails, the other compressor can continue working
FAN MOTOR BACK UP FUNCTION - when one fan motor fails, the other fan motor can continue working
MODULE BACK UP FUNCTION - when one or some modules fail, the others modules can continue working



ALL OUTDOOR UNITS CYCLE OPERATION

In one combination system, any outdoor unit can be the MASTER unit and all units follow cycle operation to balance the lifespan of the system

MINI EVD SERIES

MINI VRF
SINGLE FAN

OUTDOOR EQUIPMENT

Featuring SINGLE-FAN and DOUBLE-FAN architecture bodies, our MINI EVD SERIES offer superior cooling and heating in more compacted and modern design. With capacities range from 8.0kW to 33.5kW, MINI EVD offers a great solution for light commercial buildings

HEATING RANGE

-30°C ◄·····► 30°C

COOLING RANGE

-10°C ◄·····► 55°C

FLEXIBLE CURRENT 1-PH & 3-PH

Our MINI EVD series is available in single-phase and three-phase electrical power, our equipment provides maximum flexiblity

COMPRESSOR INVERTER

Featuring Full DC Inverter Technology, our MINI EVD SERIES provides superior performance with well-managed operational loads at all times

MODERN DESIGN COMPACT

Featuring ultra odern design with compact footprint to suit a wide range of buildings type, our MINI EVD series is aesthetically pleasing as well as high functional

HIGH EFFICIENCY DC MOTOR

High efficiency DC Fan Motor
Low noise and high efficiency thanks to high-density wire winding engineering
Brushless with built-in sensor

FAST COOLING & HEATING

Every rooms can meet set point quickly and comfortably by optimised refrigerant control

180° SINE WAVE CONTROL

The perfect combination of 180° Sine wave rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%

FAN REVERSAL PROTECTION

In standby, if the outdoor fan motor is rotating in opposite direction at a high speed by the wind or other natural factors, the unit WILL NOT start to protect hte fan motor. Once the rotation speed has slowed down or correct itself, the unit WILL start

LED DISPLAY ON PCB

LED display on PCB, it shows the system's operation status and provide error codes

SPACE SAVING INSTALLATION

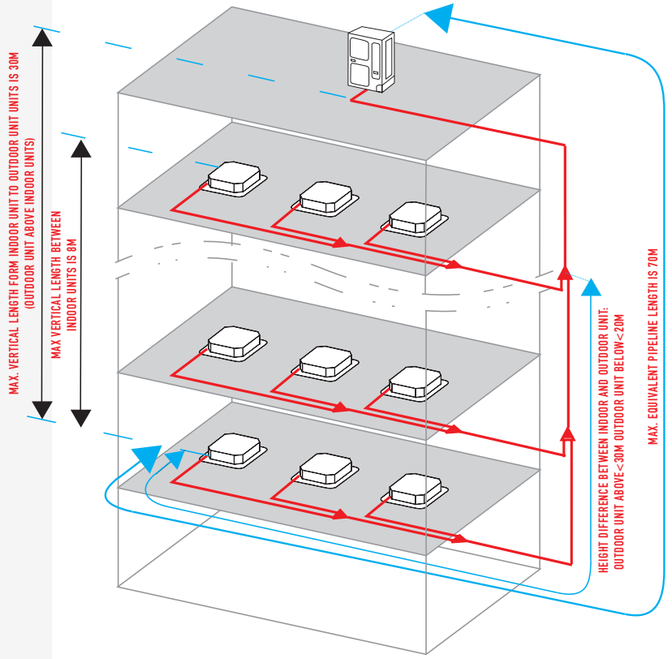
Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible

ACTIVE PFC MODULE

With PFC (Power Factor Corrector) module, we achieve higher utilisation rate at power factor of 98%, increasing the system efficiency greatly

HIGH EFFICIENCY

Refrigerant cooling technology for PCB
The radiation fin is made of aluminium panels fitting together seamlessly
This helps to cool down the IPM, it has better performance compared to air cooling for PCB
The outdoor unit has capability to run in 55°C ambient temperature



9 BASE MODULES

MINI VRF DOUBLE FAN

LONG PIPING & HEIGHT DIFFERENCE

THE TOTAL PIPE LENGTH	100M (12.5 - 18KW) 120M (22.4 - 33.5KW)
THE LONGEST PIPE LENGTH	ACTUAL LENGTH 60M EQUIVALENT LENGTH 70M
EQUIVALENT LENGTH FROM FIRST INDOOR DISTRIBUTOR TO LAST INDOOR UNIT	20M
HEIGHT DIFFERENCE BETWEEN INDOOR AND OUTDOOR UNIT:	OUTDOOR UNIT ABOVE <30M OUTDOOR UNIT BELOW <20M
HEIGHT DIFFERENCE BETWEEN INDOOR UNITS	8M

CAPACITY	8.0KW	10.0KW	12.5KW	14.0KW	16.0KW	18.0KW	20.0KW	22.4KW	26.0KW	28.0KW	33.5KW
PHASE	1PH	1PH	1PH 3PH	1PH 3PH	1PH 3PH	3PH	3PH	3PH	3PH	3PH	3PH
COMPRESSOR	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
FAN MOTOR	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EVD MINI - SINGLE FAN

220-240V/1V/50&60Hz (SINGLE PHASE DC INVERTER MINI VRF SYSTEM)
380-415V/3N/50&60Hz (THREE PHASE DC INVERTER MINI VRF SYSTEM)

MODEL NAME			EVM1-D080W/HR1	EVM1-D080W/HNR1	EVM1-D100W/HR1	EVM1-D100W/HNR1	EVM1-D125W/HR1	EVM1-D125W/HNR1	EVM1-D125W/HZR1-D01	EVM1-D125W/HZNR1-D01
POWER SUPPLY			220~240V 1N / 50Hz	220~240V 1N / 60Hz	220~240V 1N / 50Hz	220~240V 1N / 60Hz	220~240V 1N / 50Hz	220~240V 1N / 60Hz	380~415V 3N / 50Hz	380~415V 3N / 50Hz
PERFORMANCE DATA										
COOLING	CAPACITY	KW	8	7.2	10	9.0	12.5	11.3	12.5	11.3
		BTU/H	27300	24570	34100	30690	42600	38340	42600	38340
	POWER INPUT	KW	2.60	2.81	3.00	3.25	3.20	3.46	3.2	3.46
	RATED CURRENT	A	11.8	14.2	13.6	16.4	14.5	17.5	6.0	7.2
	EER	-	3.08	2.56	3.33	2.77	3.91	3.27	3.91	3.27
HEATING	CAPACITY	KW	9		11		14		14	
		BTU/H	30700		37500		47800		47780	
	POWER INPUT	KW	2.65		3.1		3.52		3.52	
	RATED CURRENT	A	12		14		16.1		16.1	
	COP	W/W	3.40		3.55		3.98		3.98	
CAPACITY RANGE		%	50% ~ 130%							
COMPRESSOR DATA										
DC INVERTER COMPRESSOR	QUANTITY		1		1		1		1	
	TYPE		TWIN ROTARY							
	BRAND		MITSUBISHI		GMCC		MITSUBISHI		HIGHLY	
FAN DATA										
FAN MOTOR	TYPE	-	DC		DC		DC		DC	
	QUANTITY	-	1		1		1		1	
	POWER OUTPUT	W	75		90		180		90	
FAN BLADE	FAN QUANTITY	-	1		1		1		1	
	AIR FLOW	M^3/H	3300		4000		5500		5500	
PHYSICAL DATA										
OUTDOOR COIL	FIN TYPE		HYDROPHILIC FOIL							
	NUMBER OF ROWS		3		2		2		3	
	TUBE TYPE		INNER-GROOVED COPPER TUBE							
REFRIGERANT	TYPE		R410A							
	VOLUME	KG	2.00		2.60		3.00		3.00	
DIMENSION (WxHxD)	NET	MM	935 x 702 x 383		1032 x 810 x 445		1100 x 870 x 528		1032 x 810 x 445	
	PACKING	MM	975 x 770 x 420		1075 x 875 x 495		1140 x 965 x 540		1075 x 875 x 495	
WEIGHT	NET	KG	47		60		85		67.4	
	GROSS	KG	50		65		95		72.2	
OUTDOOR SOUND LEVEL		DB(A)	≤ 54		≤ 56		≤ 56		≤ 56	
MAX OPERATING PRESSURE		MPA	4.5		4.5		4.5		4.5	
PIPING DATA										
PIPE SIZE	LIQUID PIPE	MM	Ø9.53							
	GAS PIPE	MM	Ø15.88							
OPERATION TEMPERATURE RANGE										
COOLING	OUTDOOR SIDE	°C	-5~55							
	INDOOR SIDE	°C	16~32							
HEATING	OUTDOOR SIDE	°C	-30~30							
	INDOOR SIDE	°C	16~32							

1. THE COOLING CONDITIONS: INDOOR TEMP:27°C DB(80.6°F),19°C WB(60°F) OUTDOOR TEMP:35°C DB(95°F) EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
2. THE HEATING CONDITIONS: INDOOR TEMP:20°C DB(68°F),15°C WB(44.6°F) OUTDOOR TEMP:7°C DB(42.8°F)EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
3. SOUND LEVEL: ANECHOIC CHAMBER CONVERSION VALUE, MEASURED AT POINT 1 MIN FRONT OF THE UNIT AT A HEIGHT OF 1.2M. DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
4. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AT PERFORMANCE

EVD MINI - SINGLE FAN

220-240V/1V/50&60Hz (SINGLE PHASE DC INVERTER MINI VRF SYSTEM)
380-415V/3N/50&60Hz (THREE PHASE DC INVERTER MINI VRF SYSTEM)

MODEL NAME			EVM1-D140W/HR1	EVM1-D140W/HNR1	EVM1-D140W/HZR1-F01	EVM1-D140W/HZNR1-F01	EVM1-D160W/HR1	EVM1-D160W/HNR1	EVM1-D160W/HZR1-F01	EVM1-D160W/HZNR1-F01
POWER SUPPLY			220~240V 1N / 50Hz	220~240V 1N / 60Hz	380~415V 3N / 50Hz	380~415V 3N / 60Hz	220~240V 1N / 50Hz	220~240V 1N / 60Hz	380~415V 3N / 50Hz	380~415V 3N / 60Hz
PERFORMANCE DATA										
COOLING	CAPACITY	KW	14	12.7	14	12.7	16	14.5	16	14.5
		BTU/H	47800	43020	47800	43020	54600	49140	54608	49140
	POWER INPUT	KW	3.75	4.06	3.75	4.06	4.75	5.14	4.75	5.14
	RATED CURRENT	A	17.0	20.5	7.0	8.4	21.8	25.96	8.8	10.5
	EER	-	3.73	3.13	3.73	3.13	3.37	2.82	3.37	2.82
HEATING	CAPACITY	KW	16		16		17		17	
		BTU/H	54600		54600		58000		58020	
	POWER INPUT	KW	4		4		4.4		4.4	
	RATED CURRENT	A	18.2		18.2		20		20	
	COP	W/W	4.00		4.00		3.86		3.86	
CAPACITY RANGE		%	50% ~ 130%							
COMPRESSOR DATA										
DC INVERTER COMPRESSOR	QUANTITY		1		1		1		1	
	TYPE		TWIN ROTARY							
	BRAND		MITSUBISHI		HIGHLY		MITSUBISHI		MITSUBISHI	
FAN DATA										
FAN MOTOR	TYPE	-	DC		DC		DC		DC	
	QUANTITY	-	1		1		1		1	
	POWER OUTPUT	W	180		180		180		180	
FAN BLADE	FAN QUANTITY	-	1		1		1		1	
	AIR FLOW	M^3/H	5500		5500		5500		5500	
PHYSICAL DATA										
OUTDOOR COIL	FIN TYPE		HYDROPHILIC FOIL							
	NUMBER OF ROWS		3							
	TUBE TYPE		INNER-GROOVED COPPER TUBE							
REFRIGERANT	TYPE		R410A							
	VOLUME	KG	3.45		3.45		3.80		3.80	
DIMENSION (WxHxD)	NET	MM	1100 x 870 x 528		1100 x 870 x 528		1100 x 870 x 528		1100 x 870 x 528	
	PACKING	MM	1140 x 965 x 540		1140 x 965 x 540		1140 x 965 x 540		1140 x 965 x 540	
WEIGHT	NET	KG	90		90		90		90	
	GROSS	KG	100		100		100		100	
OUTDOOR SOUND LEVEL		DB(A)	≤57		≤57		≤57		≤57	
MAX OPERATING PRESSURE		MPA	4.5		4.5		4.5		4.5	
PIPING DATA										
PIPE SIZE	LIQUID PIPE	MM	Ø9.53							
	GAS PIPE	MM	Ø15.88							
OPERATION TEMPERATURE RANGE										
COOLING	OUTDOOR SIDE	°C	-5~55							
	INDOOR SIDE	°C	16~32							
HEATING	OUTDOOR SIDE	°C	-30~30							
	INDOOR SIDE	°C	16~32							

1. THE COOLING CONDITIONS: INDOOR TEMP:27°C DB(80.6°F),19°C WB(60°F) OUTDOOR TEMP:35°C DB(95°F) EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
2. THE HEATING CONDITIONS: INDOOR TEMP:20°C DB(68°F),15°C WB(44.6°F) OUTDOOR TEMP:7°C DB(42.8°F)EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
3. SOUND LEVEL: ANECHOIC CHAMBER CONVERSION VALUE, MEASURED AT POINT 1 MIN FRONT OF THE UNIT AT A HEIGHT OF 1.2M. DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
4. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AT PERFORMANCE

EVD MINI - DOUBLE FAN

220-240V/1V/50&60Hz (SINGLE PHASE DC INVERTER MINI VRF SYSTEM)
380-415V/3N/50&60Hz (THREE PHASE DC INVERTER MINI VRF SYSTEM)

MODEL NAME			EVM2-D125W / HZR1-050D	EVM2-D140W / HZR1-050D	EVM2-D160W / HZR1-050D	EVM2-D180W / HZR1-050D	EVM2-D200W / HZR1-050D
POWER SUPPLY			380-415 / 3PH / 50	380-415 / 3PH / 50	380-415 / 3PH / 50	380-415 / 3PH / 50	380-415 / 3PH / 50
PERFORMANCE DATA							
COOLING	CAPACITY	KW	12.5	14.0	16.0	18.0	20.0
		BTU/H	42000	47800	54000	61000	68200
	POWER INPUT	KW	3.38	3.80	4.53	5.18	5.92
	EER	-	3.70	3.68	3.53	3.47	3.38
HEATING	CAPACITY	KW	14	16	20	22	24
		BTU/H	47000	54000	61000	68000	75000
	POWER INPUT	KW	3.26	3.97	4.61	5.02	5.35
	COP	-	4.29	4.03	3.91	3.98	4.11
COMPRESSOR DATA							
DC INVERTER COMPRESSOR	QUANTITY		1	1	1	1	1
	TYPE		DC TWIN ROTARY				
	BRAND						
FAN DATA							
FAN MOTOR	TYPE	-	DC FAN MOTOR				
	QUANTITY	-	2				
PHYSICAL DATA							
REFRIGERANT	TYPE		R410A				
	VOLUME	KG	3.45	3.8	3.8	4.2	5.3
DIMENSION (WxHxD)	NET	MM	1010 x 1445 x 415				
	PACKING	MM	975 x 1335 x 400				
WEIGHT	NET	KG	86.6	86.6	90.1	94.7	112.7
	GROSS	KG	96.4	96.4	100.0	104.4	126.8
SOUND PRESSURE LEVEL		DB(A)	56		58		
PIPING DATA							
PIPE SIZE	LIQUID PIPE	MM	Ø9.52				
	GAS PIPE	MM	Ø15.88			Ø19.05	
INDOOR CONNECTION QUANTITY							
MAX CONNECTED NO. INDOOR UNITS			6	7	8	9	10
OPERATION TEMPERATURE RANGE							
COOLING	OUTDOOR SIDE	°C	-5~55				
	INDOOR SIDE	°C	16~32				
HEATING	OUTDOOR SIDE	°C	-30~30				
	INDOOR SIDE	°C	16~32				

1. THE COOLING CONDITIONS: INDOOR TEMP:27°C DB(80.6°F),19°C WB(60°F) OUTDOOR TEMP:35°C DB(95°F) EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
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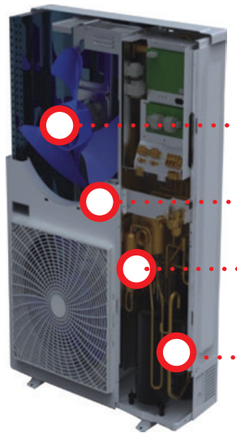
* DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS



SILENT TECHNOLOGY

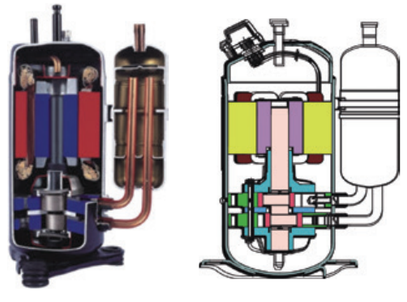
- BRUSHLESS DC MOTOR - Adopting permanent magnet rotor, low vibration and low noise
- FORWARD CURVE FAN BLADE - Unique design to increase air flow, reducing the return air resistancce, reducing vibration
- PIPELINE SILENCER - To reduce the refrigerant flow noise
- OPTIMISED DESIGN BY CFD - To reduce refrigerant flow resistance and vibrations

EVD MINI - DOUBLE FAN

220-240V/1V/50&60Hz (SINGLE PHASE DC INVERTER MINI VRF SYSTEM)
380-415V/3N/50&60Hz (THREE PHASE DC INVERTER MINI VRF SYSTEM)

MODEL NAME			EVM2-D224W / HZR1-050D	EVM2-D260W / HZR1-050D	EVM2-D280W / HZR1-050D	EVM2-D335W / HZR1-050D
POWER SUPPLY			380-415 / 3PH / 50	380-415 / 3PH / 50	380-415 / 3PH / 50	380-415 / 3PH / 50
PERFORMANCE DATA						
COOLING	CAPACITY	KW	22.4	26.0	28.0	33.5
		BTU/H	76400	88700	95500	114300
	POWER INPUT	KW	6.75	7.54	8.31	9.46
	EER	-	3.32	3.45	3.37	3.54
HEATING	CAPACITY	KW	24.0	28.5	31.5	37.5
		BTU/H	81800	97200	107500	12800
	POWER INPUT	KW	5.62	6.77	8.18	8.99
	COP	-	4.27	4.21	3.85	4.17
COMPRESSOR DATA						
DC INVERTER COMPRESSOR	QUANTITY		1	1	1	1
	TYPE		DC TWIN ROTARY			
	BRAND					
FAN DATA						
FAN MOTOR	TYPE	-	DC FAN MOTOR			
	QUANTITY	-	2			
PHYSICAL DATA						
REFRIGERANT	TYPE		R410A			
	VOLUME	KG	5.3	6.1	8.0	8.0
DIMENSION (WxHxD)	PACKING	MM		1278 x 1703 x 560		
	BODY	MM		1120 X 1549 X 528		
WEIGHT	NET	KG	112.7	142	154	154
	GROSS	KG	126.8	162	174	174
SOUND PRESSURE LEVEL		DB(A)	58	60		
PIPING DATA						
PIPE SIZE	LIQUID PIPE	MM	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	GAS PIPE	MM	Φ19.05	Φ22.2	Φ22.2	Φ22.2
INDOOR CONNECTION QUANTITY						
MAX CONNECTED NO. INDOOR UNITS			10	12	15	18
OPERATION TEMPERATURE RANGE						
COOLING	OUTDOOR SIDE	°C	-5~55			
	INDOOR SIDE	°C	16~32			
HEATING	OUTDOOR SIDE	°C	-30~30			
	INDOOR SIDE	°C	16~32			

1. THE COOLING CONDITIONS: INDOOR TEMP:27°C DB(80.6°F),19°C WB(60°F) OUTDOOR TEMP:35°C DB(95°F) EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
2. THE HEATING CONDITIONS: INDOOR TEMP:20°C DB(68°F),15°C WB(44.6°F) OUTDOOR TEMP:7°C DB(42.8°F) EQUIVALENT PIPE LENGTH:5M DROP LENGTH: 0M
3. SOUND LEVEL: ANECHOIC CHAMBER CONVERSION VALUE, MEASURED AT POINT 1 MIN FRONT OF THE UNIT AT A HEIGHT OF 1.2M - DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
4. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AT PERFORMANCE



HIGH EFFICIENCY DC INVERTER COMPRESSOR

TWIN TOTARY DC INVERTER COMPRESOR - Use high efficiency and reliability compressor, and offer excellent efficiency in part load condition

HIGH EFFICIENCY, LOW NOISE - optimised the efficiency and noise during operation with the latest technology

LOW VIBRATION - reduced the vibration during compressor start and operation by using 2CYL Structure

MODULAR VRF

OUTDOOR EQUIPMENT

Integrating EVI technology, our Modular EVD PRO VRF series offer superior performance, at 35% efficiency increase in comparison to traditional VRF solutions. With a wide range of operational ambient temperature, our VRF equipment offers superb reliability and performance in a wide range of tropical climates

-30°C 30°C

-10°C 55°C

COMBINATION
128 HP

With 13 Basic Modules, our PRO MODULAR SERIES can reach 128HP per singular system with 100 indoor units connecting together

COMPRESSOR
INVERTER

Featuring Full DC Inverter Technology, our PRO MODULAR SERIES provides superior performance with well-managed operational loads at all times

ENHANCED VAPOUR INJECTION
128 HP

Adopting two-stage throttling intermediate injection technology, EVI increases efficiency of traditional VRF System by 35%

GPS TRACKING

Equipped with latest GPS positioning system, providing remote access to monitoring, fault-detection and diagnosis of equipment from anywhere in the world

INTELLIGENT CONTROL

Our PRO MODULAR SERIES is capable of adapting to local real-time environment and dynamically adjust operation load for maximum efficiency rate

MALFUNCTION FORECASTING

Thanks to the AI cloud server, malfunction can be forecasted when system running parameter is abnormal, Technician can be sent to site to check the system before it stops.

EASY REPAIR & INSTALLATION

Engineered with robust panel-body, our equipment can withstand harsh outdoor environment. With service window access, status of the system can be easily monitored without opening the units

5-STAGE OIL CONTROL

STAGE 1 - Compressor internal oil separation
STAGE 2 - Oil return from oil even pipe
STAGE 3 - Oil return from the system oil separator
STAGE 4 - Oil balance between compressors
STAGE 5 - Oil return by system oil return program

HUMANISED INTERNAL STRUCTURE

All key components are designed near to front covers for quick and easy access. Thanks to the new balance technology, gas balance pipe is no longer required so brazing points and leaking risk are completely eliminated

360° PIPE CONNECTION

The outlet pipe of the outdoor unit can be extended to all directions through the bottom access. No outlet pipe on the front access to keep units appearance clean and modern

MODE RESTRICTION

6 kinds of mode restriction: AUTO PRIORITY (Default Setting), COOLING (or heating) priority mode, COOLING ONLY (or heating only) mode, VIP UNIT PRIORITY + AUTO PRIORITY MODE

ADDRESSING METHODS

Two Addresing Methods: automatically addressing, system will distribute address to indoor unit automatically; manually setting by wired controller or wireless remote controller. Addressing method can be selected easily by adjusting the switch on outdoor PCB

13
BASE MODULES

EVD PRO
8 / 10 / 12HP

EVD PRO
14 / 16 / 18 / 20HP

EVD PRO
22HP

EVD PRO
26 / 28 / 30 / 32HP

EVD PRO 380-415V/3N/50&60Hz (NEW DC INVERTER EVI VRF SYSTEM)

MODEL NAME			EV2-E252W/HZR1-DK01	EV2-E280W/HZR1-DK01	EV2-E335W/HZR1-DK01	EV2-E400W/HZR1-DM01	EV2-E450W/HZR1-DM01
POWER SUPPLY			380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ
PERFORMANCE DATA							
COOLING	CAPACITY	HP	8HP	10HP	12HP	14HP	16HP
		KW	25.2	28.0	33.5	40.0	45.0
		BTU/H	86000	95500	114000	136500	153500
		RT	7.2	8.0	9.5	11.4	12.8
	RATED CURRENT	A	9.04	11.30	14.51	18.10	21.60
	POWER INPUT	KW	5.31	6.22	8.35	9.76	11.63
	EER	W/W	4.75	4.50	4.01	4.10	3.87
HEATING	CAPACITY	KW	27.4	31.5	37.5	45.0	50.0
		BTU/H	93500	107500	128000	153500	170600
		RT	7.8	9.0	10.7	12.8	14.2
	RATED CURRENT	A	8.93	11.25	14.34	18.00	20.25
	POWER INPUT	KW	4.98	5.86	7.35	9.34	10.87
	COP	W/W	5.5 0	5.38	5.10	4.82	4.60
MAX. INPUT CONSUMPTION		KW	13.4	14.3	14.8	18.3	18.8
MAX. CURRENT		A	23.1	24.7	25.5	30.8	31.7
CAPACITY ADJUSTMENT RANGE			50%~130%				
COMPRESSOR DATA							
COMPRESSOR	QUANTITY		1				
	TYPE		SCROLL COMPRESSOR				
	BRAND		HITACHI				
PHYSICAL DATA							
REFRIGERANT	TYPE		R410A				
	VOLUME	KG	9		11	14	
	THROTTLE TYPE		EXV				
DIMENSION (W x H x D)	NET	MM	990 x 1740 x 840			1340 x 1740 x 840	
	PACKING	MM	1060 x 1900 x 910			1410 x 1900 x 910	
WEIGHT	NET	KG	228		230	275	
	GROSS	KG	240		242	293	
OUTDOOR SOUND LEVEL		DB(A)	58		60	60	61
MAX. OPERATING RANGE		MPA	4.5				
PIPING DATA							
PIPE SIZE	LIQUID PIPE	MM	Φ12.7			Φ15.88	
	GAS PIPE	MM	Φ22.2			Φ28.6	
MAX. PIPE LENGTH	TOTAL PIPE LENGTH	M	1000			1000	
	ODU TO FARTHEST IDU (ACTUAL LENGTH)	M	200			200	
	ODU TO FARTHEST IDU (EQUIVALENT LENGTH)	M	240			240	
	1ST IDU DISTRIBUTOR TO FARTHEST IDU	M	40/90			40/90	
MAX. VERTICAL LENGTH	BETWEEN ODU & IDU (ODU ABOVE IDU)	M	100			100	
	BETWEEN ODU & IDU (ODU BELOW IDU)	M	110			110	
	BETWEEN IDUS	M	40			40	
	BETWEEN ODUS	M	0			0	
OPERATION TEMPERATURE RANGE							
COOLING	OUTDOOR SIDE	°C	-5~55			-5~55	
	INDOOR SIDE	°C	16~32			16~32	
HEATING	OUTDOOR SIDE	°C	-30~30			-30~30	
	INDOOR SIDE	°C	16~32			16~32	

COOLING OPERATING TEMPERATURE RANGE IS FROM -5°C TO 55°C (IT CAN BE CUSTOMISED DOWN TO -10°C)
HEATING OPERATING TEMPERATURE RANGE FROM -30°C TO 30°C
THE COOLING CONDITIONS: INDOOR SIDE 27°C (80.6°F) DB, 19°C (60°F) WB OUTDOOR SIDE 35°C (95°F) DB

EVD PRO 380-415V/3N/50&60Hz (NEW DC INVERTER EVI VRF SYSTEM)

EV2-E500W/HZR1-DM01	EV2-E560W/HZR1-DM01	EV2-E615W/HZR1-DM01	EV2-E670W/HZR1-DS01	EV2-E730W/HZR1-DS01	EV2-E785W/HZR1-DS01	EV2-E850W/HZR1-DS01	EV2-E900W/HZR1-DS01
380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ
PERFORMANCE DATA							
18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
50.0	56.0	61.5	67.0	73.0	78.5	85.0	90.0
170600	191000	209800	228600	249100	267800	290000	307100
14.2	16.0	17.5	19.1	20.8	22.3	24.2	25.6
23.29	26.10	29.06	29.09	32.59	36.13	40.36	44.73
12.22	14.66	16.62	16.71	18.18	20.03	22.37	24.79
4.09	3.82	3.70	4.01	4.02	3.92	3.80	3.63
56.0	63.0	69.0	75.0	81.5	87.5	95.0	100.0
191000	214900	235400	255900	278100	298600	324100	341200
16.0	18.0	19.7	21.3	23.2	24.86	27.0	28.4
22.61	25.70	28.40	28.65	30.28	33.38	38.52	43.9
11.89	14.16	16.80	14.72	16.78	18.50	21.35	24.33
4.71	4.45	4.11	5.10	4.86	4.73	4.45	4.11
22.0	24.4	25.0	26.2	30.7	30.7	35.8	37.7
37.4	41.1	42.1	43.2	50.8	51.8	60.4	63.6
50%~130%							
COMPRESSOR DATA							
1			2				
SCROLL COMPRESSOR			SCROLL COMPRESSOR				
HITACHI			HITACHI				
PHYSICAL DATA							
R410A							
15	16			20		23	
EXV							
1340 x 1740 x 840			1990 x 1740 x 840				
1410 x 1900 x 910			2060 x 1900 x 910				
285	290	297	388	433		480	
303	308	315	406	452		498	
62	63		62	63		64	
4.5							
PIPING DATA							
Φ15.88				Φ22.2			
Φ28.6				Φ35.0			
1000				1000			
200				200			
240				240			
40/90				40/90			
100				100			
110				110			
40				40			
0				0			
OPERATION TEMPERATURE RANGE							
-5~55				-5~55			
16~32				16~32			
-30~30				-30~30			
16~32				16~32			

SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M. DURING ACTUAL OPERATION
THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE
THE HEATING CONDITIONS: INDOOR SIDE 20°C (68°F) DB, 15°C (44.6°F) WB OUTDOOR SIDE 7°C (42.8°F) DB

EVD PRO - COOLING ONLY 380-415V/3N/50&60HZ (NEW DC INVERTER VRF SYSTEM)

MODEL NAME			EV2-D252W/CZR1-DK01	EV2-D280W/CZR1-DK01	EV2-D335W/CZR1-DK01	EV2-D400W/CZR1-DM01	EV2-D450W/CZR1-DM01
POWER SUPPLY			380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz
PERFORMANCE DATA							
COOLING	CAPACITY	HP	8HP	10HP	12HP	14HP	16HP
		KW	25.2	28.0	33.5	40.0	45.0
		BTU/H	86000	95500	114000	136500	153500
		RT	7.2	8.0	9.5	11.4	12.8
	-	-	-	-	-	-	-
	POWER INPUT	KW	5.86	6.79	9.18	10.50	12.20
	EER	W/W	4.30	4.12	3.65	3.80	3.68
HEATING	CAPACITY	KW	-	-	-	-	-
		BTU/H	-	-	-	-	-
		RT	-	-	-	-	-
	RATED CURRENT	A	-	-	-	-	-
	POWER INPUT	KW	-	-	-	-	-
	COP	W/W	-	-	-	-	-
MAX. INPUT CONSUMPTION		KW	13.90	14.10	14.60	17.96	18.34
MAX. CURRENT		A	24.0	24.5	25.2	30.2	31.0
CAPACITY ADJUSTMENT RANGE			50%~130%				
COMPRESSOR DATA							
COMPRESSOR	QUANTITY	-	1				
	TYPE	-	DC / TWIN-ROTARY				
	BRAND	-	MITSUBISHI				
	FREQUENCY RANGE	HZ	20 ~ 102	20 ~ 106	20 ~ 108	20 ~ 106	20 ~ 108
PHYSICAL DATA							
REFRIGERANT	TYPE		R410A				
	VOLUME	KG	10			12.5	
	-		-				
DIMENSION (WxHxD)	NET	MM	840 x 1740 x 990			840 x 1740 x 1340	
	PACKING	MM	910 x 1900 x 1060			910 x 1900 x 1410	
WEIGHT	NET	KG	210			260	
	GROSS	KG	220			278	
OUTDOOR SOUND LEVEL		DB(A)	58		60		61
MAX. OPERATING RANGE		MPA	4.5				
PIPING DATA							
PIPE SIZE	LIQUID PIPE	MM	Φ12.7			Φ15.9	
	GAS PIPE	MM	Φ22.2			Φ28.6	
MAX. PIPE LENGTH	TOTAL PIPE LENGTH	M	1000				
	ODU TO FARTHEST IDU (ACTUAL LENGTH)	M	200				
	ODU TO FARTHEST IDU (EQUIVALENT LENGTH)	M	240				
	1ST IDU DISTRIBUTOR TO FARTHEST IDU	M	90				
MAX. VERTICAL LENGTH	BETWEEN ODU & IDU (ODU ABOVE IDU)	M	100				
	BETWEEN ODU & IDU (ODU BELOW IDU)	M	110				
	BETWEEN IDUS	M	40				
	BETWEEN ODUS	M	0				
OPERATION TEMPERATURE RANGE							
COOLING	OUTDOOR SIDE	°C	-5~55				
	INDOOR SIDE	°C	16~32				
HEATING	OUTDOOR SIDE	°C	-				
	INDOOR SIDE	°C	-				

*THE ABOVE DATA MAY BE CHANGED WITHOUT NOITCE FOR FUTURE IMPROVEMENT.

EVD PRO - COOLING ONLY 380-415V/3N/50&60HZ (NEW DC INVERTER VRF SYSTEM)

EV2-D500W/HZR1-DM01	EV2-D560W/HZR1-DM01	EV2-D615W/HZR1-DM01	EV2-D670W/HZR1-DS01	EV2-D730W/HZR1-DS01	EV2-D785W/HZR1-DS01	EV2-D850W/HZR1-DS01
380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ	380~415V/3N/50&60HZ
PERFORMANCE DATA						
18HP	20HP	22HP	24HP	26HP	28HP	30HP
50.0	56.0	61.5	67.0	73.0	78.5	85.0
170600	191000	209800	228600	249100	267800	290000
14.2	16.0	17.5	19.1	20.8	22.3	24.2
-	-	-	-	-	-	-
15.10	17.80	20.36	20.81	23.10	25.49	29.11
3.31	3.18	3.02	3.22	3.16	3.08	2.92
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
18.74	25.90	27.80	29.50	32.00	32.00	36.50
32.0	46.6	47.5	51.0	53.00	53.00	63.00
50%~130%						
COMPRESSOR DATA						
1	2					
DC / TWIN-ROTARY						
MITSUBISHI						
20 ~ 110	20 ~ 106	20 ~ 110				
PHYSICAL DATA						
R410A						
12.5	16.5		18.0		20.0	25.0
-						
840 x 1740 x 1340			840 x 1740 x 1990			
910 x 1900 x 1410			910 x 1900 x 2060			
260	298		306	358		410
278	316		324	376		428
62	63		65	66		67
4.5						
PIPING DATA						
Φ15.9						Φ22.2
Φ28.6						Φ35.0
1000						
200						
240						
90						
100						
110						
40						
0						
OPERATION TEMPERATURE RANGE						
-5~55				-5~55		
16~32				16~32		
-				-		
-				-		

ERV PRO – COOLING ONLY 208 – 230V/3N/60HZ (NEW DC INVERTER VRF SYSTEM)

MODEL NAME			EV2-D252W/CXR1-DK01	EV2-D280W/CXR1-DK01	EV2-D335W/CXR1-DK01	EV2-D400W/CXR1-DM01
POWER SUPPLY			208~230V/3N/60HZ	208~230V/3N/60HZ	208~230V/3N/60HZ	208~230V/3N/60HZ
PERFORMANCE DATA						
COOLING	CAPACITY	HP	8HP	10HP	12HP	14HP
		KW	25.2	28.0	33.5	40.0
		BTU/H	86000	95500	114000	136500
		RT	7.2	8.0	9.5	11.4
	-	-	-	-	-	-
	POWER INPUT	KW	5.82	6.83	8.57	10.08
	EER	W/W	4.33	4.10	3.91	3.97
HEATING	CAPACITY	KW	-	-	-	-
		BTU/H	-	-	-	-
		RT	-	-	-	-
	RATED CURRENT	A	-	-	-	-
	POWER INPUT	KW	-	-	-	-
	COP	W/W	-	-	-	-
MAX. INPUT CONSUMPTION		KW	13.50	14.10	14.20	16.90
MAX. CURRENT		A	40.0	42.0	45.0	50.0
CAPACITY ADJUSTMENT RANGE			50%~130%			
COMPRESSOR DATA						
COMPRESSOR	QUANTITY	-	1			
	TYPE	-	DC / TWIN-ROTARY			
	BRAND	-	MITSUBISHI			
	FREQUENCY RANGE	RPS	10 - 120			
PHYSICAL DATA						
REFRIGERANT	TYPE		R410A			
	VOLUME	KG	10			12
	-		-			
DIMENSION (WxHxD)	NET	MM	840 x 1740 x 990			840 x 1740 x 1340
	PACKING	MM	910 x 1900 x 1060			910 x 1900 x 1410
WEIGHT	NET	KG	208			260
	GROSS	KG	218			278
OUTDOOR SOUND LEVEL		DB(A)	58		60	
MAX. OPERATING RANGE		MPA	4.5			
PIPING DATA						
PIPE SIZE	LIQUID PIPE	MM	Φ12.7			Φ15.9
	GAS PIPE	MM	Φ25.4			Φ31.8
MAX. PIPE LENGTH	TOTAL PIPE LENGTH	M	1000			
	ODU TO FARTHEST IDU (ACTUAL LENGTH)	M	190			
	ODU TO FARTHEST IDU (EQUIVALENT LENGTH)	M	220			
	1ST IDU DISTRIBUTOR TO FARTHEST IDU	M	90			
MAX. VERTICAL LENGTH	BETWEEN ODU & IDU (ODU ABOVE IDU)	M	90			
	BETWEEN ODU & IDU (ODU BELOW IDU)	M	110			
	BETWEEN IDUS	M	30			
	BETWEEN ODUS	M	0			
OPERATION TEMPERATURE RANGE						
COOLING	OUTDOOR SIDE	°C	-5~50			
	INDOOR SIDE	°C	16~32			
HEATING	OUTDOOR SIDE	°C	-			
	INDOOR SIDE	°C	-			

*THE ABOVE DATA MAY BE CHANGED WITHOUT NOITCE FOR FUTURE IMPROVEMENT.

ERV PRO – COOLING ONLY 208 – 230V/3N/60HZ (NEW DC INVERTER VRF SYSTEM)

EV2-D450W/CXR1-DM01	EV2-D500W/CXR1-DM01	EV2-D560W/CXR1-DM01	EV2-D615W/CXR1-DM01	EV2-D670/CXR1-DM01
208~230V/3N/60HZ	208~230V/3N/60HZ	208~230V/3N/60HZ	208~230V/3N/60HZ	208~230V/3N/60HZ
16HP	18HP	20HP	22HP	24HP
45.0	50.0	56.0	61.5	67.0
153500	170600	191000	209800	228600
12.8	14.2	16.0	17.5	19.0
-	-	-	-	-
11.75	13.37	15.73	18.25	19.59
3.83	3.74	3.56	3.37	3.42
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
17.30	24.00	26.50	27.00	27.00
53.0	70.0	78.0	80.0	80.0
COMPRESSOR DATA				
1	2			
DC / TWIN-ROTARY				
MITSUBISHI				
10 ~ 110				
PHYSICAL DATA				
12	13	14	14	15
-				
840 x 1740 x 1340				
910 x 1900 x 1410				
260	288	296	296	306
278	306	314	314	324
61	62	63	63	63
4,5				
PIPING DATA				
Φ15.9				
Φ31.8				
1000				
190				
220				
90				
90				
110				
30				
0				
OPERATION TEMPERATURE RANGE				
-5~50				
16~32				
-				
-				

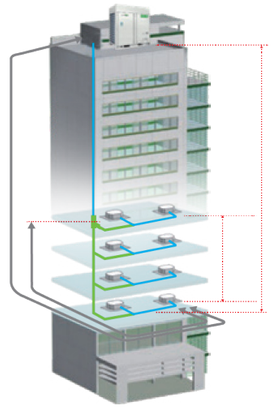
COMBINATION TABLE

HP	Cooling Cap.(KW)	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP
8	25.2	•												
10	28		•											
12	33.5			•										
14	40				•									
16	45					•								
18	50						•							
20	56							•						
22	61.5								•					
24	67									•				
26	73										•			
28	78											•		
30	83.5												•	
32	89.5													•
34	95					•	•							
36	101						• •							
38	106.5					•			•					
40	111.5						•		•					
42	117.5							•	•					
44	123								• •					
46	128.5								•	•				
48	134.5									• •				
50	140								•			•		
52	145									•		•		
54	151									•			•	
56	156.5									•				•
58	163						• •		•					
60	168					•			• •					
62	173						•		• •					
64	179							•	• •					
66	184.5								• • •					
68	190								• •	•				
70	196								•	• •				
72	201.5								• •			•		
74	206.5						•					• •		
76	212.5									• •		•		
78	218								•			• •		
80	224.5									•		• •		
82	229.5										•	• •		
84	234.5											• • •		
86	240.5											• •	•	
88	246											• •		•
90	253										•			• •
92	258.5											•		• •
94	265												•	• •
96	270													• • •

LONG PIPING & HEIGHT DIFFERENCE

THE LONGEST PIPE 200 / 240M

LENGTH FROM 1ST DISTRIBUTOR TO INDOOR UNIT: 90M



HEIGHT DIFFERENCE BETWEEN OUTDOOR UNIT AND INDOOR UNITS: 100 / 110M

HEIGHT DIFFERENCE BETWEEN INDOOR UNITS: 40M

THE TOTAL PIPE LENGTH	1000 M
THE LONGEST PIPE LENGTH	200 /240M
HEIGHT DIFFERENCE	OUTDOOR UNIT ABOVE <100M OUTDOOR UNIT BELOW <110M
HEIGHT DIFFERENCE BETWEEN INDOOR UNITS	40M
LENGTH FROM FIRST INDOOR DISTRIBUTOR TO LAST INDOOR UNIT	90M
COMMUNICATION WIRE LENGTH	CAN BE UP TO 1000M

POWER SAVING MODE

IN THE CASE OF POWER SHORTAGE, ERV PRO CAN RUN POWER SAVING MODE TO EASE GENERATOR'S PRESSURE.

40% ~ 100%

LONG DISTANCE
REMOTE CONTROL

Long distance remote control by phone or tablet

REFRIGERANT
STATUS DETECTION

Featuring Full DC Inverter Technology, our ERV PRO MODULAR SERIES provides superior performance with well-managed operational loads at all times

MALFUNCTION
FORECASTING

Thanks to the AI cloud server, malfunction can be forecasted when system running parameter is abnormal, Technician can be sent to site to check the system before it stops.

INDOOR UNITS

INDOOR EQUIPMENT

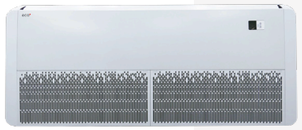
Our Indoor VRF Equipment is available with a wide range of styles and capacities to suit buildings of all functionality: cassette types, ducted types, wall-mounted types and floor-ceiling types

CASSETTE

Our Indoor Cassette Equipment list included Round-Flow, One-Way, Two-Way and Compact-Four-Way range

DUCTED

Our Ducted Selection is available in Low ESP, Medium and High ESP, catering for buildings of all sizes



FLOOR & CEILING

Our latest introduction to indoor selection, Floor & Ceiling Type, suitable for modern interiors looking for a functional decorative solution

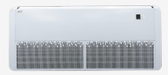
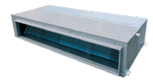
WALL

Our Wall Mounted Equipment offers a selection of cover design. This wall types is ideal for small apartment flats where other indoor types are not suitable

FRESH AIR PROCESSOR

Our Fresh Air Processor is ideal for delivering fresh air supply into densely populated indoor environment such as offices, schools and hotels. Featuring high static pressure and customisation filtration, our Fresh Air Processors can be used in a wide range of applications

CAPACITY (KW)	1-WAY CASSETTE	2-WAY CASSETTE	ROUNDFLOW CASSETTE	4-WAY COMPACT CASSETTE	WALL MOUNTED
TYPE					
2.2	•			•	•
2.8	•			•	•
3.6	•			•	•
4.5	•	•		•	•
5.6	•	•	•		•
7.1	•	•	•		•
8.0		•	•		
9.0			•		
10.0			•		
11.2			•		
12.0					
12.5			•		
14.0			•		
15.0					
16.0			•		

CAPACITY (KW)	FLOOR CEILING	SHORT CEILING DUCTED UNIT	MEDIUM ESP DUCTED UNIT	HIGH ESP DUCTED UNIT	FRESH AIR PROCESSOR
TYPE					
2.2		•			
2.8		•			
3.6	•	•			
4.5	•	•			
5.6	•	•			
7.1	•	•	•	•	
8.0	•		•	•	
9.0	•		•	•	
10.0			•	•	
11.2	•				
12.0			•	•	
14.0	•				•
15.0			•		
16.0	•				
20.0				•	
22.4					•
25.0				•	
28.0				•	•
45.0				•	•
56.0				•	•

ONE-WAY CASSETTE

MODEL NAME	POWER TYPE	CAPACITY				MOTOR INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EVI-V22Q1/HR1-B	50Hz	2.2	7.5	2.5	8.5	0.04	520	306	32~36	/
EVI-V28Q1/HR1-B	50Hz	2.8	9.5	3.2	10.9					
EVI-V36Q1/HR1-B	50Hz	3.6	12.2	4.0	13.6					
EVI-V45Q1/HR1-B	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36~41	
EVI-V56Q1/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35~41	
EVI-V71Q1/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38~45	

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPE			STANDARD CONTROLLER
		PACKING	BODY	PANEL PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EVI-V22Q1/HR1-B	50Hz	1160 x 275 x 655	994 x 250 x 532	1090 x 65 x 540	1070 x 50 x 520	24/3.6	30/5.0	Φ9.53	Φ6.35	ODΦ25	REMOTE CONTROLLER
EVI-V28Q1/HR1-B	50Hz										
EVI-V36Q1/HR1-B	50Hz										
EVI-V45Q1/HR1-B	50Hz	1160 x 315 x 655	994 x 290 x 532	1090 x 65 x 540	1070 x 50 x 520	26/3.6	32/5.0	Φ12.7			
EVI-V56Q1/HR1-B	50Hz	1470 x 305 x 690	1304 x 290 x 572	1390 x 70 x 560	1380 x 50 x 520	34/3.6	39/5.0				
EVI-V71Q1/HR1-B	50Hz							Φ15.9	Φ9.53		

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE

SUSPENDED CEILING

SLIM BODY
EASY TO INSTALL

Designed with slim body, with 250mm height, this unit is ideal for low suspended ceiling applications

SUSPENDED CEILING

DRAINAGE PUMP
READY BUILT-IN

Built in with low noise long-life drainage pump. Pumping head is 1200mm, flexible for drainage pipe design

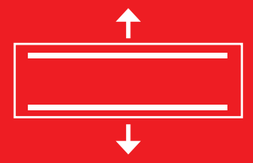
PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
OPTIONAL	STANDARD	STANDARD (BUILT-IN)	STANDARD (BUILT-IN)	STANDARD	OPTIONAL

TWO-WAY CASSETTE

MODEL NAME	POWER TYPE	CAPACITY				MOTOR INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EVI-V45Q2/HR1-B	50Hz	4.5	15.3	5.0	17	0.07	800	470	36~42	/
EVI-V56Q2/HR1-B	50Hz	5.6	19.1	6.3	21.4					
EVI-V71Q2/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.10	1120	650	40~46	
EVI-V80Q2/HR1-B	50Hz	8.0	27.2	9.0	30.7					

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPE			STANDARD CONTROLLER
		PACKING	BODY	PANEL PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EVI-V45Q2/HR1-B	50Hz	1215 x 365 x 630	1068 x 310 x 517	1235 x 70 x 655	1205 x 50 x 630	33/6.5	36/8.5	Φ12.7	Φ6.35	ODΦ25	REMOTE CONTROLLER
EVI-V56Q2/HR1-B	50Hz										
EVI-V71Q2/HR1-B	50Hz	1455 x 365 x 630	1308 x 310 x 517	1475 x 70 x 655	1445 x 50 x 630	40/7.5	47/10.0	Φ15.9	Φ9.53		
EVI-V80Q2/HR1-B	50Hz										

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE



DUAL AIR FLOW
2-WAY AIR DIRECTION

Dual direction airflow, flexible installation in various applications and settings

SUSPENDED CEILING

DRAINAGE PUMP
READY BUILT-IN

Built in with low noise long-life drainage pump. Pumping head is 1200mm, flexible for drainage pipe design

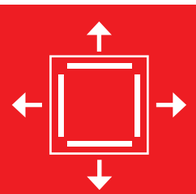
PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
OPTIONAL	STANDARD	STANDARD (BUILT-IN)	STANDARD (BUILT-IN)	STANDARD	OPTIONAL

COMPACT 4-WAY CASSETTE

MODEL NAME	POWER TYPE	CAPACITY				POWER INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EVI-V22Q/HR1-C	50Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34	/
EVI-V22Q/HNR1-C	60Hz									
EVI-V28Q/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34	
EVI-V28Q/HNR1-C	60Hz									
EVI-V36Q/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27~38	
EVI-V36Q/HNR1-C	60Hz									
EVI-V45Q/HNR1-C	50Hz	4.5	15.3	5.0	17.0	0.040	515	303	27~38	
EVI-V45Q/HNR1-C	60Hz									

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPE			STANDARD CONTROLLER
		PACKING	BODY	PANEL PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EVI-V22Q/HR1-C	50Hz	745 x 375 x 675	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5	25	Φ9.52	Φ6.35	ODΦ25	REMOTE CONTROLLER
EVI-V22Q/HNR1-C	60Hz										
EVI-V28Q/HR1-C	50Hz					17.5	25				
EVI-V28Q/HNR1-C	60Hz										
EVI-V36Q/HR1-C	50Hz					17.5	25	Φ12.7			
EVI-V36Q/HNR1-C	60Hz										
EVI-V45Q/HNR1-C	50Hz					17.5	25				
EVI-V45Q/HNR1-C	60Hz										

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE



COMPACT DESIGN
4-WAY AIRFLOW

Airflow is soft and smooth, air can be delivered to every corner, allowing for more balanced indoor condition

DRAINAGE PUMP
READY BUILT-IN

Built in with low noise long-life drainage pump. Pumping head is 1200mm, flexible for drainage pipe design

PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
OPTIONAL	STANDARD	STANDARD (BUILT-IN)	STANDARD (BUILT-IN)	STANDARD	OPTIONAL

ROUND-FLOW CASSETTE

MODEL NAME	POWER TYPE	CAPACITY				RATED INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EVI-V56QR/HR1	50Hz / 60Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39	/
EVI-V71QR/HR1	50Hz / 60Hz	7.1	24.2	8.0	27.2	0.093	1200	700	35~39	
EVI-V80QR/HR1	50Hz / 60Hz	8.0	27.2	8.8	30.0					
EVI-V90QR/HR1	50Hz / 60Hz	9.0	30.7	10	34.1	0.160	1400	820	37~41	
EVI-V100QR/HR1	50Hz / 60Hz	10	34.1	11	37.5					
EVI-V112QR/HR1	50Hz / 60Hz	11.2	38.2	12.5	42.6					
EVI-V125QR/HR1	50Hz / 60Hz	12.5	42.6	14.0	47.7					
EVI-V140QR/HR1	50Hz / 60Hz	14	47.7	15.0	51.1		1800	1050	38~46	
EVI-V160QR/HR1	50Hz / 60Hz	16	54.5	17.0	58.0					

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPE			STANDARD CONTROLLER
		PACKING	BODY	PANEL PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EVI-V56QR/HR1	50Hz / 60Hz	920 x 265 x 985	833 x 232 x 900	1030 x 105 x 1030	950 x 50 x 950	24	30	Φ12.7	Φ6.35	ODΦ25	REMOTE CONTROLLER
EVI-V71QR/HR1	50Hz / 60Hz					24	30	Φ15.88	Φ9.52		
EVI-V80QR/HR1	50Hz / 60Hz					24	30				
EVI-V90QR/HR1	50Hz / 60Hz	920 x 310 x 985	833 x 286 x 900			28.5	30				
EVI-V100QR/HR1	50Hz / 60Hz					28.5	35				
EVI-V112QR/HR1	50Hz / 60Hz					28.5	35				
EVI-V125QR/HR1	50Hz / 60Hz					28.5	35				
EVI-V140QR/HR1	50Hz / 60Hz					28.5	35				
EVI-V160QR/HR1	50Hz / 60Hz					28.5	35				

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
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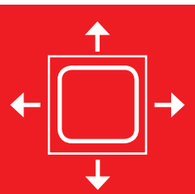

PERFECT AIR
360° AIRFLOW

Airflow is soft and smooth, air can be delivered to every corner, allowing for more balanced indoor condition

DRAINAGE PUMP
READY BUILT-IN

Built in with low noise long-life drainage pump. Pumping head is 1200mm, flexible for drainage pipe design

PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
OPTIONAL	STANDARD	STANDARD (BUILT-IN)	STANDARD (BUILT-IN)	STANDARD	OPTIONAL

LOW ESP DUCTED

MODEL NAME	POWER TYPE	CAPACITY				RATED INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EVI-V22TA/HR1-C	50Hz	2.2	7.5	2.5	8.5	0.08	450	260	24~29	30
EVI-V22TA/HNR1-C	60Hz									
EVI-V28TA/HR1-C	50Hz	2.8	9.5	3.2	10.9					
EVI-V28TA/HNR1-C	60Hz									
EVI-V36TA/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.11	550	324	25~32	
EVI-V36TA/HNR1-C	60Hz									
EVI-V45TA/HR1-C	50Hz	4.5	15.3	5.0	17.0		620	360	32~37	
EVI-V45TA/HNR1-C	60Hz									
EVI-V56TA/HR1-C	50Hz	5.6	19.1	6.3	21.4	0.16	800	520	28~38	
EVI-V56A/HNR1-C	60Hz									
EVI-V71TA/HR1-C	50Hz	7.1	24.2	8.0	27.2	0.18	1000	640	30~39	
EVI-V71TA/HNR1-C	60Hz									

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPE			STANDARD CONTROLLER
		PACKING	BODY	PANEL PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EVI-V22TA/HR1-C	50Hz	910 x 240 x 510	814 x 210 x 467	/	/	16.0	18.5	Φ9,52	Φ6.35	OD Φ25	WIRED CONTROLLER
EVI-V22TA/HNR1-C	60Hz										
EVI-V28TA/HR1-C	50Hz					16.0	18.5				
EVI-V28TA/HNR1-C	60Hz										
EVI-V36TA/HR1-C	50Hz					16.5	19.0	Φ12.7			
EVI-V36TA/HNR1-C	60Hz										
EVI-V45TA/HR1-C	50Hz					16,5	19.0				
EVI-V45TA/HNR1-C	60Hz										
EVI-V56TA/HR1-C	50Hz	110 x 240 x 510	1010 x 210 x 467			21.0	24.0				
EVI-V56A/HNR1-C	60Hz										
EVI-V71TA/HR1-C	50Hz	1310 x 240 x 510	1214 x 210 x 467			25.5	28.5	Φ15.88	Φ9.52		
EVI-V71TA/HNR1-C	60Hz										

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
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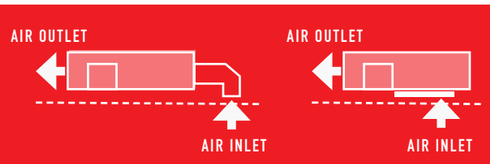


FLEXIBLE INSTALLATION

Installation can be done through rear inlet or bottom inlet

LARGE AIRFLOW, LOW NOISE

Running as low as 24 dB(A) for the quietest room operation

PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
STANDARD	OPTIONAL	STANDARD (BUILT-IN)	OPTIONAL	STANDARD	OPTIONAL

MEDIUM ESP DUCTED

MODEL NAME	POWER TYPE	CAPACITY				RATED INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EVI-V71TB/HR1-B	50Hz	7.1	24.2	8.0	27.2	040	1220	710	36~41	70
EVI-V71TB/HNR1-B	60Hz									
EVI-V80TB/HR1-B	50Hz	8.0	27.2	9.0	30.7					
EVI-V80TB/HNR1-B	60Hz									
EVI-V90TB/HR1-B	50Hz	9.0	30.7	10.0	34.1		1850	1080	38~43	
EVI-V90TB/HNR1-B	60Hz									
EVI-V100TB/HR1-B	50Hz	10.0	34.1	11.0	37.5		2000	1170	40~44	
EVI-V100TB/HNR1-B	60Hz									
EVI-V120TB/HR1-B	50Hz	12.0	40.9	13.0	44.3					
EVI-V120TB/HNR1-B	60Hz									
EVI-V150TB/HR1-B	50Hz	15.0	51.1	17.0	58.0					
EVI-V150TB/HNR1-B	60Hz									

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPE			STANDARD CONTROLLER
		PACKING	BODY	PANEL PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EVI-V71TB/HR1-B	50Hz	1255 x 325 x 720	1209 x 260 x 680	/	/	33	37	Φ15.88	Φ9.52	ODΦ25	WIRED CONTROLLER
EVI-V71TB/HNR1-B	60Hz										
EVI-V80TB/HR1-B	50Hz					33	37				
EVI-V80TB/HNR1-B	60Hz										
EVI-V90TB/HR1-B	50Hz	1490 x 325 x 720	1445 x 260 x 680			46	50				
EVI-V90TB/HNR1-B	60Hz										
EVI-V100TB/HR1-B	50Hz					46	50				
EVI-V100TB/HNR1-B	60Hz										
EVI-V120TB/HR1-B	50Hz					46	50				
EVI-V120TB/HNR1-B	60Hz										
EVI-V150TB/HR1-B	50Hz					46	50				
EVI-V150TB/HNR1-B	60Hz										

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE

FLEXIBLE INSTALLATION

Left or Right drainage pipe connection to allow easier installation

ON-SITE ESP SELECTION

70Pa is supplied as standard, 30Pa can be set on site

PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
STANDARD	STANDARD	STANDARD (BUILT-IN)	OPTIONAL	STANDARD	OPTIONAL

HIGH ESP DUCTED

MODEL NAME	POWER TYPE	CAPACITY				POWER INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M3/H	CFM	DB(A)	PA
EV2-V71TH/HR1-B	50Hz	7.1	24.2	7.8	26.6	0.40	1500	880	40~42	150
EV2-V71TH/HNR1-B	60Hz									
EV2-V80TH/HR1-B	50Hz	8.0	27.2	8.8	30					
EV2-V80TH/HNR1-B	60Hz									
EV2-V90TH/HR1-B	50Hz	9.0	30.7	10.0	34.1					
EV2-V90TH/HNR1-B	60Hz									
EV2-V100TH/HR1-B	50Hz	10.0	34.1	11.0	37.5	0.50	2300	1350	44~52	
EV2-V100TH/HNR1-B	60Hz									
EV2-V120TH/HR1-B	50Hz	12.0	40.9	13.0	44.3					
EV2-V120TH/HNR1-B	60Hz									
EV2-V150TH/HR1-B	50Hz	15.0	51.1	17.0	58.0					
EV2-V150TH/HNR1-B	60Hz									
EV2-V200TH/HR1-B	50Hz	20.0	68.2	22.0	75.0	1.72	4000	2350	45~53	
EV2-V200TH/HNR1-B	60Hz									
EV2-D200TH/HR1-F310	50/60Hz	20.0	68.2	22.0	75.0	1.20	4000	2350	45~50	
EV2-V250TH/HR1-B	50Hz	25.0	85.3	27.5	93.8	1.72	4200	2470	45~54	
EV2-V250TH/HNR1-B	60Hz									
EV2-D250TH/HR1-F310	50/60Hz	25.0	85.3	27.5	93.8	1.20	4400	2580	46~51	
EV2-V280TH/HR1-B	50Hz	28.0	95.5	30.8	105.0	1.72	4400	2580	45~55	
EV2-V280TH/HNR1-B	60Hz									
EV2-D280TH/HR1-F310	50/60Hz	28.0	95.5	30.8	105.0	1.30	4800	2820	48~52	
EV2-V450TH/HZR1-B	50Hz	45.0	153.5	50.0	170.6	2.60	6000	3520	60	200
EV2-V450TH/HXR1-B	60Hz									
EV2-V560TH/HR1-B	50Hz	56.0	191.0	63.0	214.9	3.40	8000	4700	64	
EV2-V560TH/HXR1-B	60Hz									

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE

PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
STANDARD	STANDARD	STANDARD (BUILT-IN)	OPTIONAL	STANDARD	/

OPTIONAL WATER PUMP

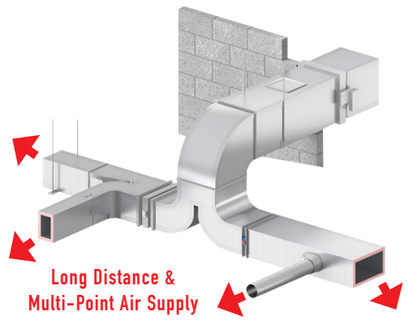
Featuring slim body, the design allows for less ceiling height requirement. Water Pump is option, allowing pump head up to 700mm

HIGH ESP DUCTED

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)				BODY WEIGHT		CONNECTING PIPES			STANDARD CONTROLLER
		PACKING	BODY	PACKING	PANEL	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	MM	MM	KG	KG	MM	MM	MM	
EV2-V71TH/HR1-B	50Hz	1490 x 325 x 720	1445 x 260 x 680	1490 x 325 x 720	1445 x 260 x 680	46	50	Φ 15.9	Φ 9.53	ODΦ 25	WIRED CONTROLLER
EV2-V71TH/HNR1-B	60Hz										
EV2-V80TH/HR1-B	50Hz										
EV2-V80TH/HNR1-B	60Hz										
EV2-V90TH/HR1-B	50Hz										
EV2-V90TH/HNR1-B	60Hz										
EV2-V100TH/HR1-B	50Hz	1245 x 445 x 655	1190 x 370 x 620	1245 x 445 x 655	1190 x 370 x 620	47	51				
EV2-V100TH/HNR1-B	60Hz										
EV2-V120TH/HR1-B	50Hz										
EV2-V120TH/HNR1-B	60Hz										
EV2-V150TH/HR1-B	50Hz										
EV2-V150TH/HNR1-B	60Hz										
EV2-V200TH/HR1-B	50Hz	1510 x 580 x 870	1465 x 448 x 811	1510 x 580 x 870	1465 x 448 x 811	102	113	Φ 22.2	Φ 12.7	ODΦ 30	
EV2-V200TH/HNR1-B	60Hz										
EV2-D200TH/HR1-F310	50/60Hz	1515 x 885 x 580	1440 x 811 x 448	1515 x 885 x 580	1440 x 811 x 448						
EV2-V250TH/HR1-B	50Hz	1510 x 580 x 870	1465 x 448 x 811	1510 x 580 x 870	1465 x 448 x 811						
EV2-V250TH/HNR1-B	60Hz										
EV2-D250TH/HR1-F310	50/60Hz	1515 x 885 x 580	1440 x 811 x 448	1515 x 885 x 580	1440 x 811 x 448						
EV2-V280TH/HR1-B	50Hz	1510 x 580 x 870	1465 x 448 x 811	1510 x 580 x 870	1465 x 448 x 811						
EV2-V280TH/HNR1-B	60Hz										
EV2-D280TH/HR1-F310	50/60Hz	1515 x 885 x 580	1465 x 448 x 811	1515 x 885 x 580	1465 x 448 x 811						
EV2-V450TH/HZR1-B	50Hz	2267 x 840 x 1050	2165 x 676 x 916	2267 x 840 x 1050	2165 x 676 x 916	222	260	Φ 28.6	Φ 15.88	ODΦ 32	
EV2-V450TH/HXR1-B	60Hz										
EV2-V560TH/HR1-B	50Hz										
EV2-V560TH/HXR1-B	60Hz										

HIGH STATIC PRESSURE

With high static pressure, our equipment can provide excellent air distribution through complicated ducting network for all types of rooms applications



ACHIEVING MORE

With a wide range of cooling and heating capacities, our High ESP Ducted equipment is excellent for commercial and industrial applications

7.1KW-56.0KW COOLING CAPACITY RANGE	7.8KW-63.0KW HEATING CAPACITY RANGE	HIGH AIRFLOW REACHING UNTIL 8000 M³/H
1500-8000 M³/H AIRFLOW RANGE	40 - 64 DB(A) SOUND LEVEL RANGE	11 MODELS RANGE OF UNITS

WALL MOUNTED

MODEL NAME	POWER TYPE	CAPACITY		POWER INPUT	FAN MOTOR		AIR FLOW	SOUND LEVEL
		COOLING	HEATING		TYPE	SPEED (H / M / L)		
		KW	KW	KW		R/MIN	M^3/H	DB(A)
EV2-D22G/HR1-GSB	220-240V/1N 50 & 60Hz	2.2	2.5	15	DC	1000 / 900 / 870 / 850	440 / 380 / 360 / 350	24 - 33
EV2-D28G/HR1-GSB	220-240V/1N 50 & 60Hz	2.8	3.2	15	DC	1000 / 900 / 870 / 850	440 / 380 / 360 / 350	24 - 33
EV2-D36G/HR1-GSB	220-240V/1N 50 & 60Hz	3.6	4.0	18	DC	1100 / 1000 / 950 / 900	500 / 440 / 415 / 380	27 - 36
EV2-D45G/HR1-GSB	220-240V/1N 50 & 60Hz	4.5	5.0	20	DC	1050 / 950 / 900 / 850	655 / 610 / 565 / 525	29 - 38
EV2-D56G/HR1-GSB	220-240V/1N 50 & 60Hz	5.6	6.3	23	DC	1100 / 1000 / 950 / 900	720 / 645 / 580 / 560	32 - 42
EV2-D71G/HR1-GSB	220-240V/1N 50 & 60Hz	7.1	8.0	35	DC	1300 / 1200 / 1100 / 1000	890 / 805 / 720 / 645	35 - 43

MODEL NAME	POWER TYPE	DIMENSION (W x H x D)		BODY WEIGHT	REFRIGERANT TYPE	THROTTLE TYPE	LIQUID PIPE / GAS PIPE	DRAINAGE WATER PIPE (OUTER DIAMETER)	OPERATION TEMP.
		NET	PACKING	NET / GROSS					
		MM	MM	KG			MM	MM	°C
EV2-D22G/HR1-GSB	220-240V/1N/ 50 & 60Hz	864 x 300 x 200	945 x 375 x 290	9.5 / 12	R410A	EXV	Φ6.35 / Φ9.52	Φ20	16 - 32
EV2-D28G/HR1-GSB	220-240V/1N/ 50 & 60Hz	864 x 300 x 200	945 x 375 x 290	9.5 / 12	R410A	EXV	Φ6.35 / Φ9.52	Φ20	16 - 32
EV2-D36G/HR1-GSB	220-240V/1N/ 50 & 60Hz	864 x 300 x 200	945 x 375 x 290	9.5 / 12	R410A	EXV	Φ6.35 / Φ12.7	Φ20	16 - 32
EV2-D45G/HR1-GSB	220-240V/1N/ 50 & 60Hz	972 x 320 x 215	1060 x 400 x 310	11.5 / 14	R410A	EXV	Φ6.35 / Φ12.7	Φ20	16 - 32
EV2-D56G/HR1-GSB	220-240V/1N/ 50 & 60Hz	972 x 320 x 215	1060 x 400 x 310	11.5 / 14	R410A	EXV	Φ6.35 / Φ12.7	Φ20	16 - 32
EV2-D71G/HR1-GSB	220-240V/1N/ 50 & 60Hz	972 x 320 x 215	1060 x 400 x 310	11.5 / 14	R410A	EXV	Φ9.52 / Φ15.88	Φ20	16 - 32

ACHIEVING MORE

With a wide range of panel designs, our Wall Mounted units are suitable for all types of interior styles

2.2KW - 8.0KW COOLING CAPACITY RANGE	2.5KW - 8.8KW HEATING CAPACITY RANGE	5 DESIGNS RICH PANEL DESIGNS
330-1050 M^3/H AIRFLOW RANGE	24 - 43 DB(A) SOUND LEVEL RANGE	7 MODELS RANGE OF UNITS

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE

MULTI PANEL STYLES AVAILABLE

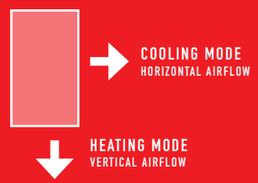
Wall mounted indoor unit comes with multiple panel styles, suitable for a wide range of interior design

AVAILABLE AS STANDARD

1 COLOUR AVAILABLE

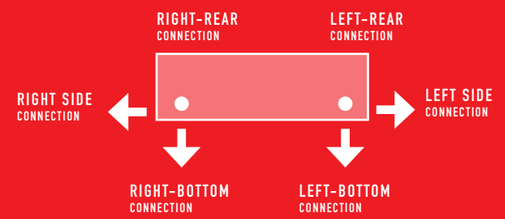
3 COLOURS AVAILABLE

PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
/	STANDARD	STANDARD (BUILT-IN)	/	/	STANDARD



SMOOTH AIR SUPPLY

In Cooling Mode air flows horizontally, in Heating Mode, warm air flows vertically, providing complete smooth air flow supply



FLEXIBLE INSTALLATION

Refrigerant pipes can be connected from 3 different directions for easier installation works

HOTEL CARD FUNCTION

Card function available. System activates only when room is occupied to save energy

MULTI PANEL DESIGNS

Wall mounted panels are available in different designs, providing flexibility in achieving different interior outlooks

FLOOR CEILING UNIT

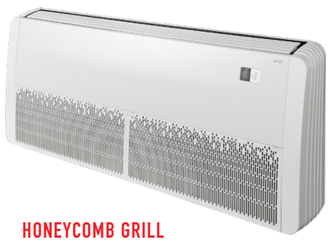
MODEL NAME	POWER TYPE	CAPACITY				POWER INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M^3/H	CFM	DB(A)	PA
EVI-V36UA/HR1-LDBA	50Hz	3.6	12.3	4.0	13.7	0.085	620	360	37 ~ 42	/
EVI-V36UA/HNR1-LDBA	60Hz									
EVI-V45UA/HR1-LDBA	50Hz	4.5	15.3	5.0	17.0					
EVI-V45UA/HR1-LDBA	60Hz									
EVI-V56UA/HR1-LDBA	50Hz	5.6	19.1	6.3	21.4	0.110	800	470	37 ~ 47	
EVI-V56UA/HNR1-LDBA	60Hz									
EVI-V71UA/HR1-LDBB	50Hz	7.1	24.2	8.0	27.2	0.095	1200	706	45 ~ 51	
EVI-V71UA/HNR1-LDBB	60Hz									
EVI-V80UA/HR1-LDBB	50Hz	8.0	27.2	8.8	30.0					
EVI-V80UA/HNR1-LDBB	60Hz									
EVI-V90UA/HR1-LDBC	50Hz	9.0	30.7	10.0	34.1	0.160	1600	940	45 ~ 50	
EVI-V90UA/HNR1-LDBC	60Hz									
EVI-V112UA/HR1-LDBC	50Hz	11.2	38.2	12.5	42.6					
EVI-V112UA/HNR1-LDBC	60Hz									
EVI-V140UA/HR1-LDBC	50Hz	14.0	47.7	15	51.1	0.200	2000	1177	45 ~ 54	
EVI-V140UA/HNR1-LDBC	60Hz									
EVI-V160UA/HR1-LDBC	50Hz	16.0	54.5	17	58.0					
EVI-V160UA/HNR1-LDBC	60Hz									

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE

MULTI PANEL STYLES AVAILABLE

Wall mounted indoor unit comes with multiple panel styles, suitable for a wide range of interior design

STRAIGHT GRILL
(STANDARD)



HONEYCOMB GRILL
(OPTIONAL)

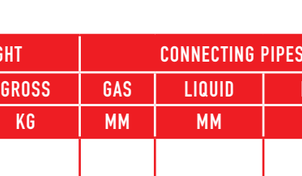
PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
/	STANDARD	STANDARD (BUILT-IN)	OPTIONAL	STANDARD	OPTIONAL

FLOOR CEILING UNIT

MODEL NAME	POWER TYPE	DIMENSIONS (W x H x D)		BODY WEIGHT		CONNECTING PIPES			STANDARD CONTROLLER
		PACKING	BODY	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	KG	KG	MM	MM	MM	
EVI-V36UA/HR1-LDBA	50Hz	1130 x 765 x 300	1050 x 675 x 235	26.5	31.0	Ø12.7	Ø6.35	DN20	REMOTE CONTROLLER
EVI-V36UA/HNR1-LDBA	60Hz								
EVI-V45UA/HR1-LDBA	50Hz								
EVI-V45UA/HR1-LDBA	60Hz								
EVI-V56UA/HR1-LDBA	50Hz								
EVI-V56UA/HNR1-LDBA	60Hz								
EVI-V71UA/HR1-LDBB	50Hz	1380 x 765 x 325	1300 x 675 x 235	32.0	32.0	Ø15.88	Ø9.52	DN20	
EVI-V71UA/HNR1-LDBB	60Hz								
EVI-V80UA/HR1-LDBB	50Hz								
EVI-V80UA/HNR1-LDBB	60Hz								
EVI-V90UA/HR1-LDBC	50Hz	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0				
EVI-V90UA/HNR1-LDBC	60Hz								
EVI-V112UA/HR1-LDBC	50Hz								
EVI-V112UA/HNR1-LDBC	60Hz								
EVI-V140UA/HR1-LDBC	50Hz								
EVI-V140UA/HNR1-LDBC	60Hz								
EVI-V160UA/HR1-LDBC	50Hz								
EVI-V160UA/HNR1-LDBC	60Hz								

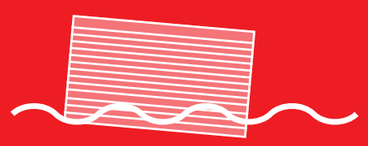
FLEXIBLE INSTALLATION

Suitable for floor and ceiling installation, this type of indoor can be very convenient to a wide range of applications



EASY TO INSTALL

Available with 2 refrigerant pipes connections, easier for on-site installation works



EASY MAINTENANCE

Grill and filter can be removed and easily washable to keep the units well-maintained at all times

WIDE-ANGLE AIR SUPPLY

3-dimensional air supply to ensure all areas are sufficiently covered to keep occupants comfortable at all times

FRESH AIR PROCESSOR

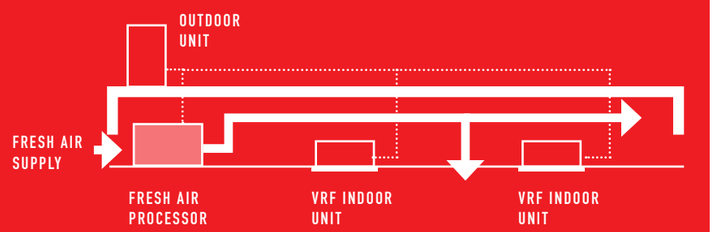
MODEL NAME	POWER TYPE	CAPACITY				POWER INPUT	AIR FLOW		SOUND LEVEL	ESP
		COOLING		HEATING						
		KW	KBTU/H	KW	KBTU/H	KW	M^3/H	CFM	DB(A)	PA
EVI-V140TF/HR1-B	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42~48	220
EVI-V140TF/HNR1-B	60Hz									
EVI-V224TF/HR1-B	50Hz	22.4	76.4	16.0	54.5	1.2	2000	1170	45~52	220
EVI-V224TF/HNR1-B	60Hz									
EVI-V280TF/HR1-B	50Hz	28.0	95.5	20.0	68.2	1.2	2800	1640	45~52	220
EVI-V280TF/HNR1-B	60Hz									
EVI-V450TF/HZR1-B	50Hz	45.0	153.5	31.4	107.1	1.6	4000	3520	58	300
EVI-V450TF/HXR1-B	60Hz									
EVI-V560TF/HZR1-B	50Hz	56.0	191.0	39.0	133.0	2.5	6000	4700	62	300
EVI-V560TF/HXR1-B	60Hz									

MODEL NAME	POWER TYPE	DIMENSIONS (W x H x D)		BODY WEIGHT		CONNECTING PIPES			STANDARD CONTROLLER
		PACKING	BODY	NET	GROSS	GAS	LIQUID	DRAIN	
		MM	MM	KG	KG	MM	MM	MM	
EVI-V140TF/HR1-B	50Hz	1245 x 445 x 655	1190 x 370 x 620	47	51	Φ15.88	Φ9.52	ODΦ25	WIRED CONTROLLER
EVI-V140TF/HNR1-B	60Hz								
EVI-V224TF/HR1-B	50Hz	1510 x 490 x 870	1465 x 448 x 811	102	106	Φ22.2	Φ12.7	ODΦ30	
EVI-V224TF/HNR1-B	60Hz								
EVI-V280TF/HR1-B	50Hz	1510 x 490 x 870	1465 x 448 x 811	102	106				
EVI-V280TF/HNR1-B	60Hz								
EVI-V450TF/HZR1-B	50Hz	2200 x 710 x 1018	2165 x 676 x 916	222	260	Φ28.6	Φ15.88	ODΦ32	
EVI-V450TF/HXR1-B	60Hz								
EVI-V560TF/HZR1-B	50Hz	2200 x 710 x 1018	2165 x 676 x 916	222	260				
EVI-V560TF/HXR1-B	60Hz								

1. POWER SUPPLY: 220~240V/1N FOR 50HZ;
2. COOLING TEST CONDITION: INDOOR SIDE 27°C DB,19°C WB OUTDOOR SIDE 35°C DB
3. HEATING TEST CONDITION: INDOOR SIDE 20°C DB,15°C WB OUTDOOR SIDE 7°C DB
4. SOUND LEVEL: MEASURED AT A POINT 1M IN FRONT OF THE UNIT AT A HEIGHT OF 1.5M DURING ACTUAL OPERATION, THESE VALUES ARE NORMALLY SOMEWHAT HIGHER AS A RESULT OF AMBIENT CONDITIONS
5. THE ABOVE DATA MAY BE CHANGED WITHOUT NOTICE FOR FUTURE IMPROVEMENT ON QUALITY AND PERFORMANCE

FRESH AIR WITH ROOM CONTROL

Combining Fresh Air Processors with VRF Indoor Units allow occupants to receive 100% fresh air supply as well as ideal indoor climate condition



PLENUM BOX	AIR FILTER	EXV	DRAIN PUMP	AC MOTOR	DC MOTOR
STANDARD	OPTIONAL	STANDARD	OPTIONAL	STANDARD	/

CONTROLLERS OPTION

We offer a wide range of controllers option for invididual unit control as well as central system control

REMOTE CONTROLLER SINGLE CONTROLLER

WALL MOUNTED | ALL CASSETTE | FLOOR & CEILING

Available as standard options for WALL MOUNTED, CASSETTE, FLOOR & CEILING indoor equipment, Remote Controller offers easy to use controlling option for singular indoor units

TOUCH SCREEN SINGLE CONTROLLER

ALL DUCTED | FRESH AIR PROCESSOR UNITS

With touch screen, this wired controller option offers 3 colours with stunning modern interface. Most suited for DUCTED and FRESH AIR PROCESSOR Indoor Equipment, this series offers the following settings: On / Off, Temperature Setting, Fan Speed Setting, Mode Setting, Timer and Check Function

WIRED CONTROLLER SINGLE CONTROLLER

ALL DUCTED | FRESH AIR PROCESSOR UNITS

This series of controller offers bi-directional communication with indoor units operating parameters (Error Code, Temperature, Address & Timer Function). It offers a compact simple design, with easy to use controlling buttons. Suitable for all types of indoor equipment

WIRED CONTROLLER CENTRALISED CONTROLLER

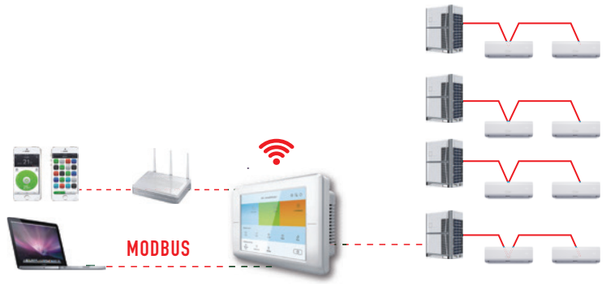
ALL INDOOR UNITS TYPES

This controller is designed for outdoor units controlling, with one controller per 64 indoor units. With smart setting, this controller can provide settings accessible only to end-users and only to admins. It is easy to install and easy to operate

BMS GATEWAY

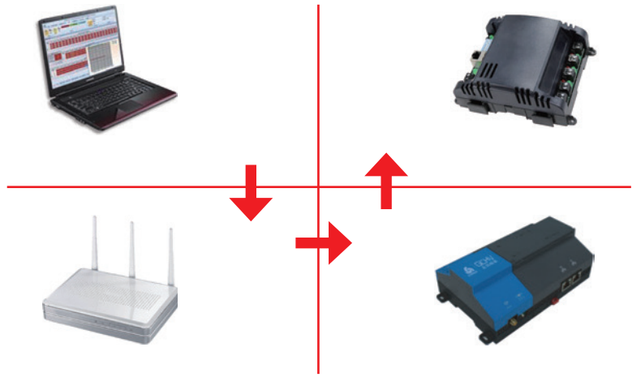
Our EVD equipment comes with a wide range of connection protocols, providing proffesionals and users with multi-functional, smart and responsive control system

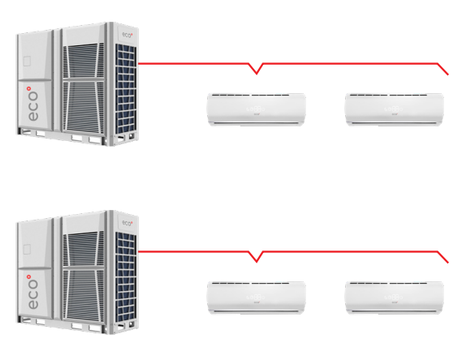
TOUCH CONTROLLER CENTRALISED SOLUTION



- BUILD IN WIFI MODULAR
- BUILD IN MODBUS PROTOCOL
- WEEKLY SCHEDULE MANAGEMENT
- OPERATION PARAMETER ENQUIRY
- USER FRIENDLY UI DESIGN

ECO-NET CONTROLLER CENTRALISED SOLUTION





- CENTRALISED SOLUTION
- ELECTRICITY CHARGE MANAGEMENT
- OPERATION DATA RECORD
- SCHEDULE MANAGEMENT

Our ECO-NET CONTROLLER centralised solution provides many benefits for building management such as operation data record, schedule management and electrical charge management

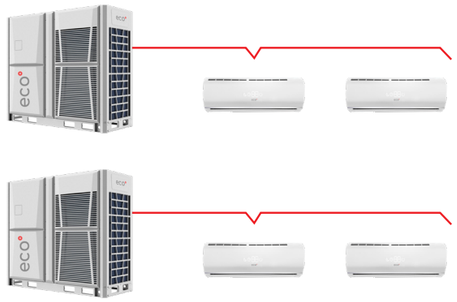
BMS GATEWAY CENTRALISED SOLUTION

BMS / BAS SYSTEM
+ Honeywell
+ Siemens
+ Johnson Controls
+ Others

MODBUS GATEWAY

BACNET GATEWAY

MODBUS GATEWAY



MODBUS GATEWAY | Independent Modbus Box or built-in with outdoor unit. BACNET GATEWAY | Connect with Modbus gateway, use BACnet IP protocol.

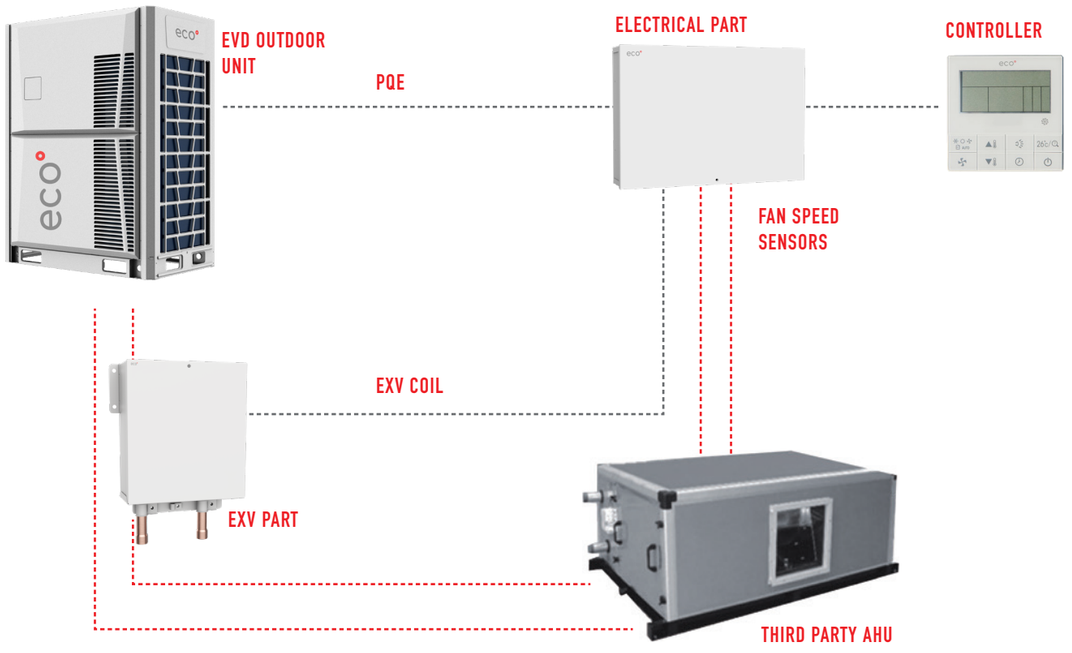
AHU CONNECTION KIT

Our AHU KIT provides connection to many third party air handling units with our EVD equipment
Each AHU KIT is capable of connecting at up to 120HP

ELECTRICAL PART	EXV PART	SENSOR & WIRE	CONTROLLER
			
PCB POWER TERMINALS COMMUNICATION TERMINALS	OUTLET PIPE INLET PIPE EXV	T1 SENSOR & WIRE T2 SENSOR & WIRE T2B SENSOR & WIRE CONTROLLER WIRE	CONTROLLER

Our AHU KIT provides an universal interface protocol, permitting connection to a wide range of third party Air Handling Units equipment:
+ No address limit and automatic addressing
+ Easy installation
+ One electrical part has one address and can connect with 4 EXV parts
+ One AHU kit can connect up to 120HP of EVD equipment

AHU KIT CONNECTION DIAGRAM



Dealer

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eco°vrf specialises in Variable Refrigerant Flow (VRF) Central Air Conditioning Equipment for Cooling and Heating Solutions: Modular EVD & Mini EVD with Full DC Inverter Technology, suitable for Tropical (T3) Climates

eco°

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